

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P199198

Luminaire Tested: **XNV-AF-01-LED-U-SL3-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199198
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24262)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: XNV-AF-01-LED-U-SL3-8030
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4929 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G2

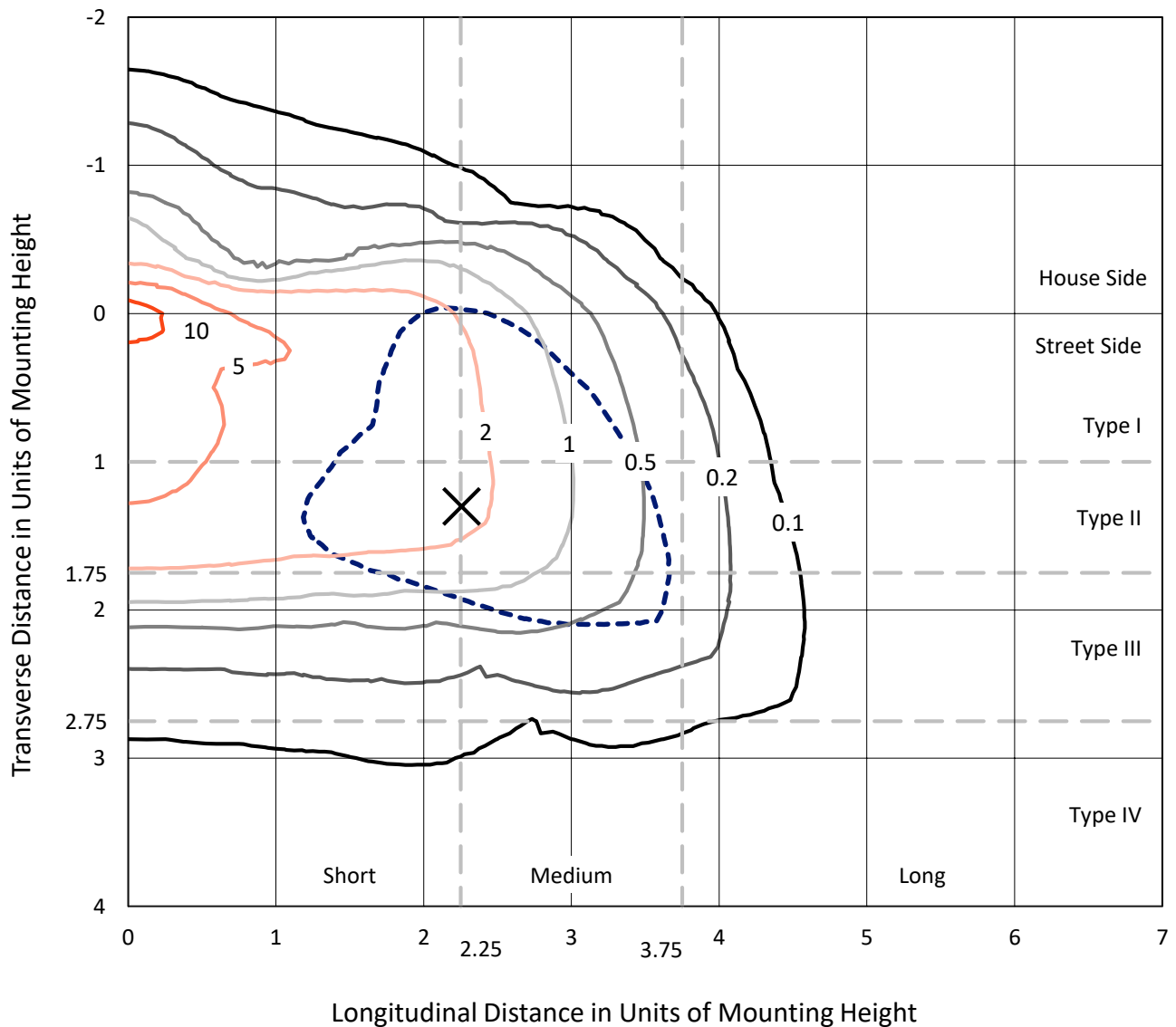
Input Watts (W): 58
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P199198
 CATALOG NUMBER: XNV-AF-01-LED-U-SL3-8030

Iso-Footcandle Lines of Horizontal Illumination

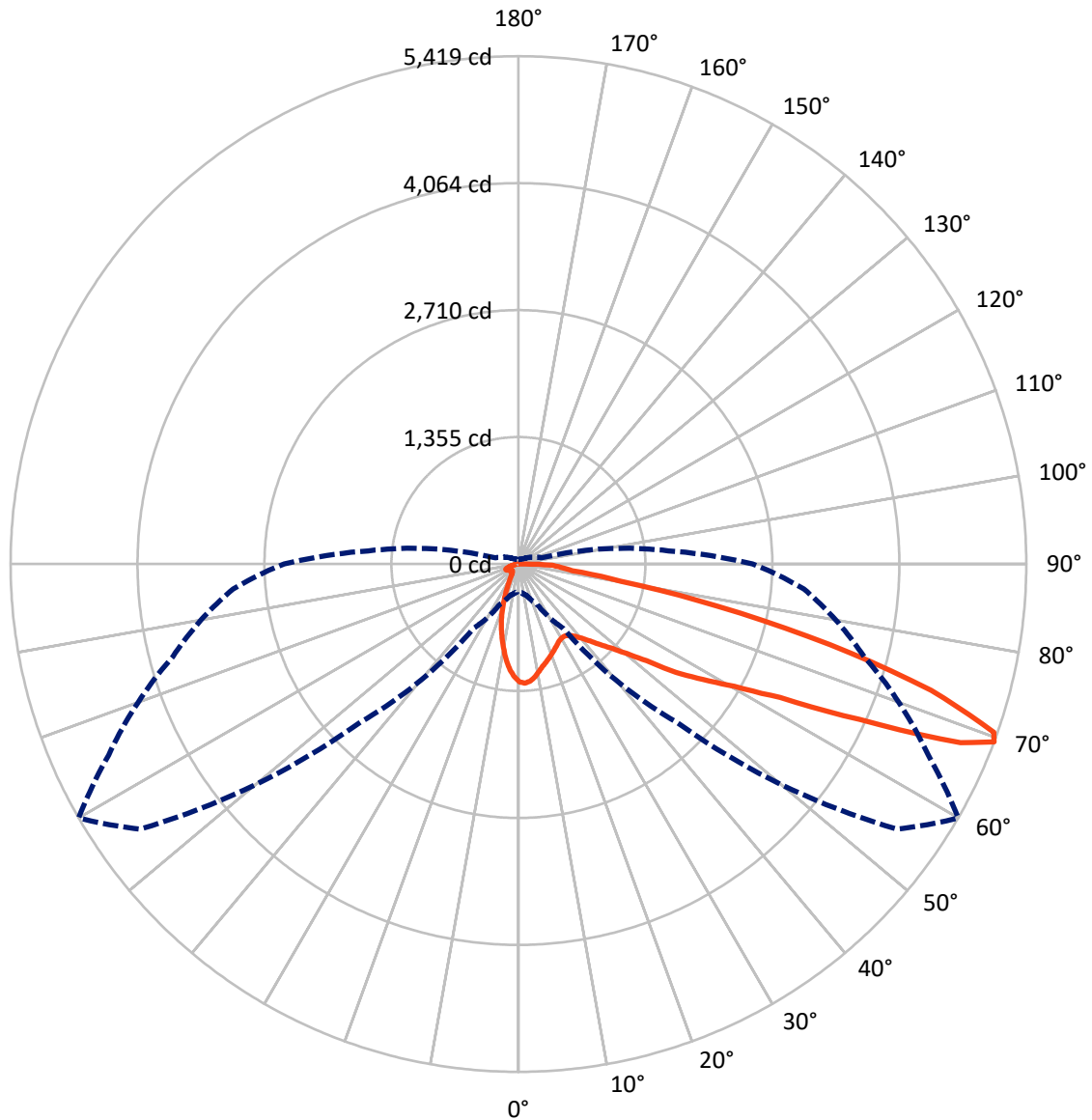
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.6 fc
 Type III - Medium - Non-Cutoff

REPORT NUMBER: P199198
CATALOG NUMBER: XNV-AF-01-LED-U-SL3-8030

Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P199198

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	703.0	0.0	703.0
	% Fixture	14.3	0.0	14.3
Street Side	Lumens	4226.0	0.0	4226.0
	% Fixture	85.7	0.0	85.7
Total	Lumens	4929.0	0.0	4929.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.7	2.2
10°-20°	228.4	4.6
20°-30°	291.4	5.9
30°-40°	401.0	8.1
40°-50°	649.6	13.2
50°-60°	1019.5	20.7
60°-70°	1359.1	27.6
70°-80°	756.0	15.3
80°-90°	117.3	2.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4929.0	100.0
0°-180°	4929.0	100.0



REPORT NUMBER: P199198

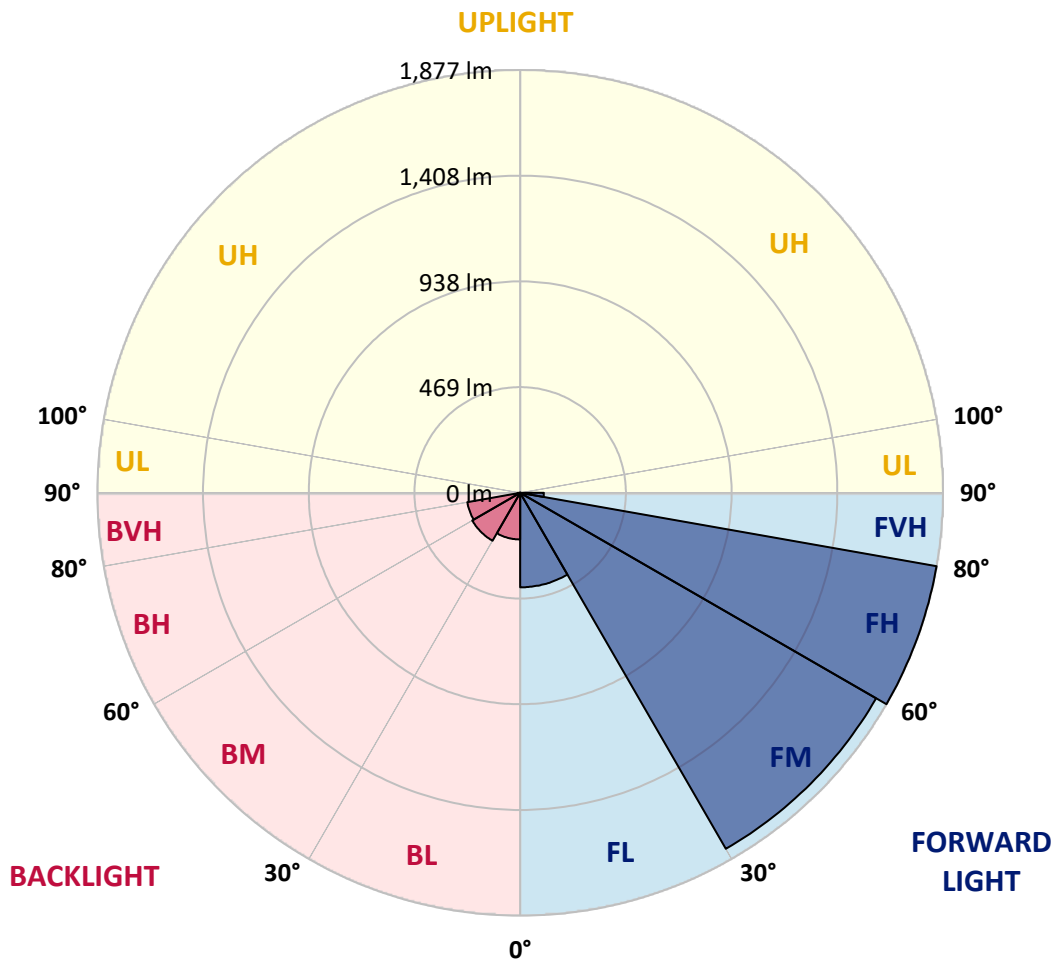
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	419.4	8.5			
FM	(30°-60°)	1824.5	37.0			
FH	(60°-80°)	1876.8	38.1			G2/5000
FVH	(80°-90°)	105.4	2.1			G2/225
BL	(0°-30°)	207.2	4.2	B1/500		
BM	(30°-60°)	245.6	5.0	B1/1000		
BH	(60°-80°)	238.4	4.8	B1/500		G1/500
BVH	(80°-90°)	11.9	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium





REPORT NUMBER: P199198

CATALOG NUMBER: XNV-AF-01-LED-U-SL3-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	1257.6	1257.6	1257.6	1257.6	1257.6	1257.6	1257.6	1257.6	1257.6	1257.6	1257.6
2.5°	1291.2	1294.6	1294.6	1291.8	1290.2	1281.0	1275.7	1271.9	1265.2	1252.9	1241.8
5°	1245.0	1251.6	1254.5	1255.8	1264.0	1261.1	1261.4	1258.9	1253.2	1239.9	1221.9
7.5°	1160.3	1161.6	1166.6	1175.2	1195.1	1209.0	1220.4	1222.6	1221.3	1211.5	1186.2
10°	1076.9	1079.1	1085.1	1099.6	1118.6	1138.5	1163.1	1173.3	1180.8	1177.7	1145.8
12.5°	1007.6	1008.0	1014.6	1031.3	1052.5	1077.5	1111.0	1126.8	1144.8	1152.1	1116.4
15°	940.9	945.4	951.7	971.9	998.2	1029.8	1068.3	1090.1	1113.8	1134.7	1093.6
17.5°	890.4	893.9	897.6	914.4	944.7	984.2	1032.0	1055.4	1086.7	1118.6	1070.2
20°	862.6	863.8	861.0	869.2	894.8	937.5	992.8	1020.9	1058.2	1103.1	1046.2
22.5°	856.9	856.9	846.4	844.9	856.2	892.3	952.3	986.8	1032.3	1092.3	1024.7
25°	883.4	881.5	861.9	843.9	839.8	858.1	913.8	956.1	1010.2	1092.0	1008.6
27.5°	933.7	931.1	906.8	876.5	850.2	842.3	884.1	927.4	992.8	1102.8	1000.4
30°	996.3	995.3	970.7	932.7	889.4	848.7	872.4	912.5	981.1	1122.7	1000.1
32.5°	1064.8	1060.4	1045.2	1007.3	951.1	883.7	879.3	913.1	977.9	1151.8	1007.3
35°	1137.9	1134.7	1130.9	1092.7	1029.4	945.7	910.0	934.9	993.4	1192.2	1027.9
37.5°	1230.8	1227.3	1233.6	1191.9	1122.7	1026.9	961.8	978.6	1025.0	1251.0	1066.1
40°	1396.1	1386.0	1368.3	1304.1	1231.4	1126.5	1036.7	1039.2	1079.1	1329.7	1127.4
42.5°	1667.6	1635.0	1547.5	1429.6	1346.2	1242.2	1134.4	1122.4	1153.7	1433.7	1216.6
45°	1939.7	1903.1	1755.1	1566.5	1465.0	1366.4	1255.1	1226.4	1246.6	1554.8	1331.3
47.5°	2115.5	2097.5	1930.6	1703.3	1589.5	1501.7	1393.2	1345.8	1360.4	1691.9	1472.9
50°	2167.0	2151.5	2020.3	1810.5	1707.1	1665.1	1564.2	1501.3	1503.9	1852.2	1642.6
52.5°	2128.4	2122.1	2035.2	1876.8	1815.2	1837.3	1801.0	1713.4	1692.6	2027.9	1826.6
55°	2076.9	2079.1	2045.6	1943.5	1925.2	1997.9	2110.7	2040.2	1951.7	2210.9	2018.1
57.5°	1914.8	1916.3	2004.2	2070.6	2135.1	2222.9	2351.9	2322.2	2219.1	2408.5	2232.7
60°	1541.8	1554.1	1749.8	2044.4	2375.0	2666.4	2698.0	2646.8	2503.6	2636.0	2511.8
62.5°	1101.5	1112.6	1339.2	1774.7	2346.8	3168.3	3337.1	3133.5	2889.5	2976.4	2904.4
65°	578.7	576.8	752.3	1226.4	1976.7	3284.6	4344.1	3997.7	3539.7	3444.6	3283.7
67.5°	323.3	333.8	401.7	618.6	1288.3	2890.8	4987.3	5089.4	4443.7	3815.9	3267.2
69°	299.0	302.5	348.0	478.2	839.8	2385.1	4932.0	5419.1	4824.8	3817.5	3056.7
70°	290.5	294.3	335.7	440.6	705.5	1954.3	4730.6	5380.5	4917.4	3732.8	2865.2
72.5°	260.4	265.5	305.6	396.0	594.5	1007.3	3810.6	4605.2	4454.4	3262.5	2221.7
75°	222.2	230.7	291.4	393.2	563.2	640.4	2541.2	3431.0	3315.3	2333.2	1260.5
77.5°	92.0	92.9	127.4	287.9	591.1	612.9	1365.7	2173.3	1923.9	1023.1	379.6
80°	64.2	62.9	63.5	84.1	477.0	617.0	700.7	1105.3	859.1	269.9	177.6
82.5°	54.0	53.4	55.9	52.8	161.5	700.1	586.0	576.2	404.6	145.4	84.7
85°	35.7	34.8	45.8	48.0	76.8	556.0	630.2	452.9	301.5	77.8	36.0
87.5°	17.4	17.7	26.2	32.6	40.8	176.1	603.7	358.1	232.9	33.8	14.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P199198

CATALOG NUMBER: XNV-AF-01-LED-U-SL3-8030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1257.6	1257.6	1257.6	1257.6	1257.6	1257.6	1257.6	1257.6	1257.6	1257.6	1257.6
2.5°	1237.4	1227.9	1219.4	1208.7	1200.4	1193.5	1184.0	1183.7	1182.1	1184.3	1185.0
5°	1209.9	1194.1	1170.1	1143.2	1124.3	1099.3	1075.0	1066.7	1057.6	1056.6	1059.5
7.5°	1168.5	1143.9	1102.8	1061.7	1020.6	978.6	938.7	918.5	898.9	892.9	895.7
10°	1122.4	1091.1	1028.2	961.2	903.3	840.8	780.1	740.9	705.2	690.0	693.8
12.5°	1086.3	1046.5	958.0	871.1	784.5	694.7	614.8	537.3	478.8	452.6	454.2
15°	1055.4	1004.5	892.3	776.6	668.2	545.2	434.3	344.5	293.3	274.4	273.7
17.5°	1021.9	960.2	823.7	688.7	548.1	396.0	290.8	237.7	217.5	211.1	211.1
20°	986.1	914.7	751.9	593.0	421.6	276.6	218.7	198.2	190.6	188.7	188.4
22.5°	953.0	870.1	679.9	490.9	305.0	209.9	186.2	178.3	177.0	178.6	178.6
25°	926.7	831.0	606.9	383.4	221.9	175.7	165.6	164.7	169.4	175.1	176.1
27.5°	907.1	795.9	534.8	280.0	174.5	153.0	149.5	153.6	164.7	176.1	178.3
30°	893.5	765.8	448.5	201.3	145.4	134.0	135.6	142.9	159.6	177.0	181.7
32.5°	887.5	741.5	361.6	154.6	124.2	117.9	122.0	131.5	148.9	166.3	171.9
35°	893.2	723.8	281.3	128.3	108.7	104.0	108.7	118.5	129.9	138.4	141.9
37.5°	913.8	717.5	211.8	113.8	98.6	93.9	97.7	104.3	109.4	112.5	114.1
40°	957.1	724.1	165.9	106.2	92.9	87.6	88.5	91.7	95.1	97.7	98.0
42.5°	1026.0	745.9	147.6	103.4	89.4	82.5	80.9	83.1	86.9	90.4	91.0
45°	1117.6	782.3	145.7	104.3	87.9	78.4	75.2	77.4	82.5	88.2	89.1
47.5°	1236.2	839.8	154.6	109.4	88.8	76.2	71.4	73.6	80.3	87.9	89.1
50°	1376.5	919.5	171.0	116.9	93.2	76.2	69.9	71.7	78.7	87.2	88.5
52.5°	1541.8	1030.4	188.1	124.5	99.6	79.0	70.5	70.2	76.5	84.4	86.0
55°	1724.2	1168.2	204.5	131.2	103.0	82.8	72.1	68.3	73.3	79.7	80.9
57.5°	1938.8	1356.9	233.3	137.5	104.9	85.7	74.0	66.4	69.2	73.6	74.6
60°	2229.9	1634.1	289.2	148.2	108.4	86.9	74.3	64.5	64.2	67.3	67.6
62.5°	2609.5	1958.7	342.6	160.9	115.4	87.2	73.0	63.2	60.1	61.0	61.0
65°	2879.4	2078.2	327.1	171.6	121.7	86.9	71.7	62.3	56.9	55.3	55.3
67.5°	2725.8	1835.7	277.8	174.5	122.3	83.4	68.9	60.1	54.0	50.3	50.3
69°	2500.1	1609.1	255.1	169.4	117.3	79.3	65.7	57.8	52.2	47.7	47.7
70°	2316.2	1437.5	241.2	163.4	111.3	75.9	62.9	55.6	50.3	46.5	46.1
72.5°	1729.2	959.3	206.1	141.0	91.3	64.2	55.0	49.6	45.2	42.7	42.7
75°	912.5	480.7	168.8	115.1	70.5	51.2	45.2	41.7	39.2	38.9	38.6
77.5°	299.0	217.5	121.4	86.6	51.8	39.8	36.0	33.8	33.5	34.8	34.8
80°	161.5	129.9	78.1	58.5	36.0	29.7	27.8	27.5	28.4	30.3	30.3
82.5°	78.4	64.2	46.5	36.0	24.7	21.8	21.8	22.1	23.4	25.6	25.6
85°	33.8	30.3	26.9	20.2	15.2	13.6	15.5	17.1	18.0	19.6	20.2
87.5°	16.1	14.2	12.3	7.9	6.6	7.0	8.2	10.1	12.0	13.3	13.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)