

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: P198716

Luminaire Tested: **XNV-AF-01-LED-U-SL3-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198716
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-SL3-800
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 800mA 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: 4993 lumens
Efficiency: N/A
Efficacy: 113.5 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

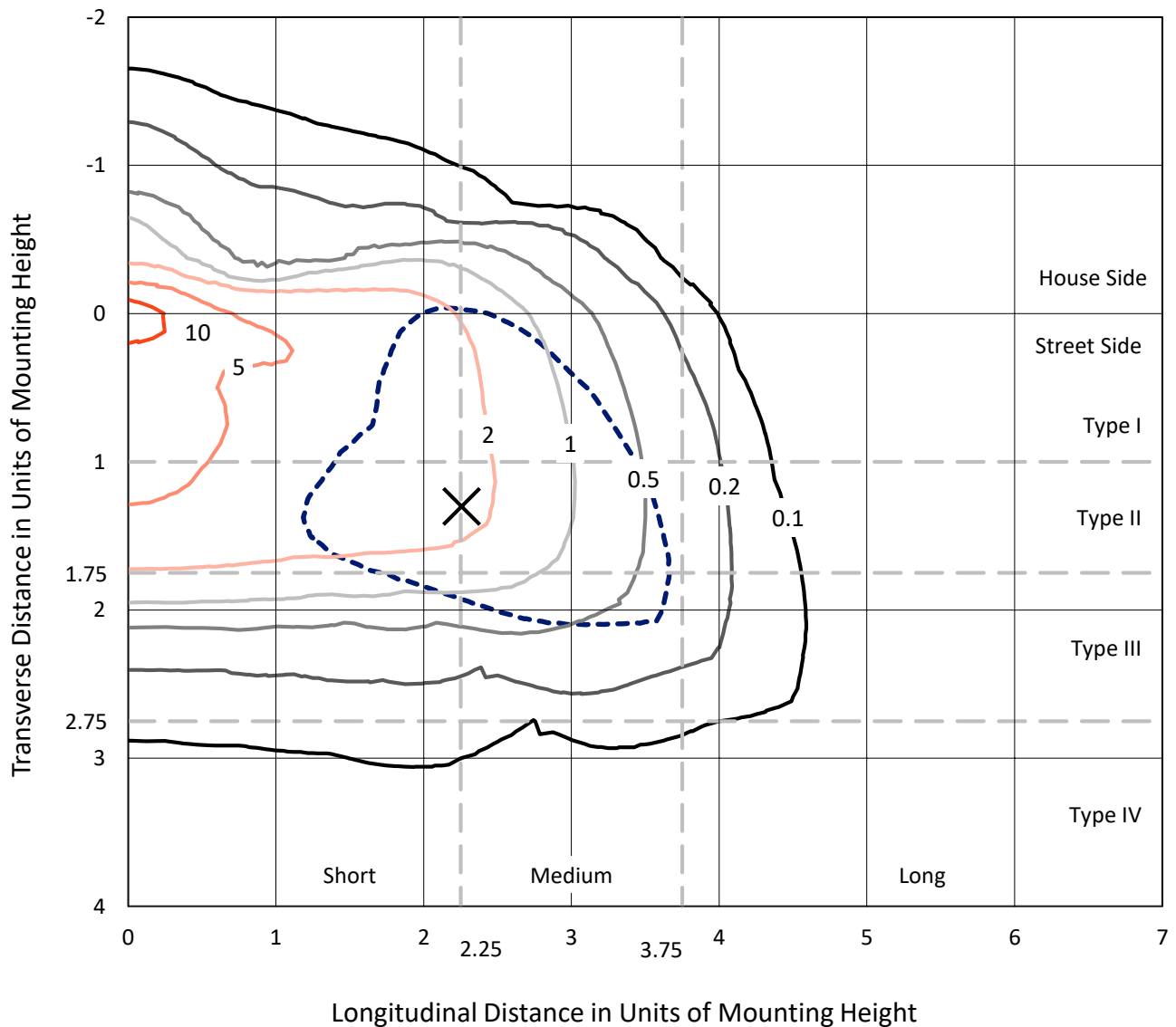
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

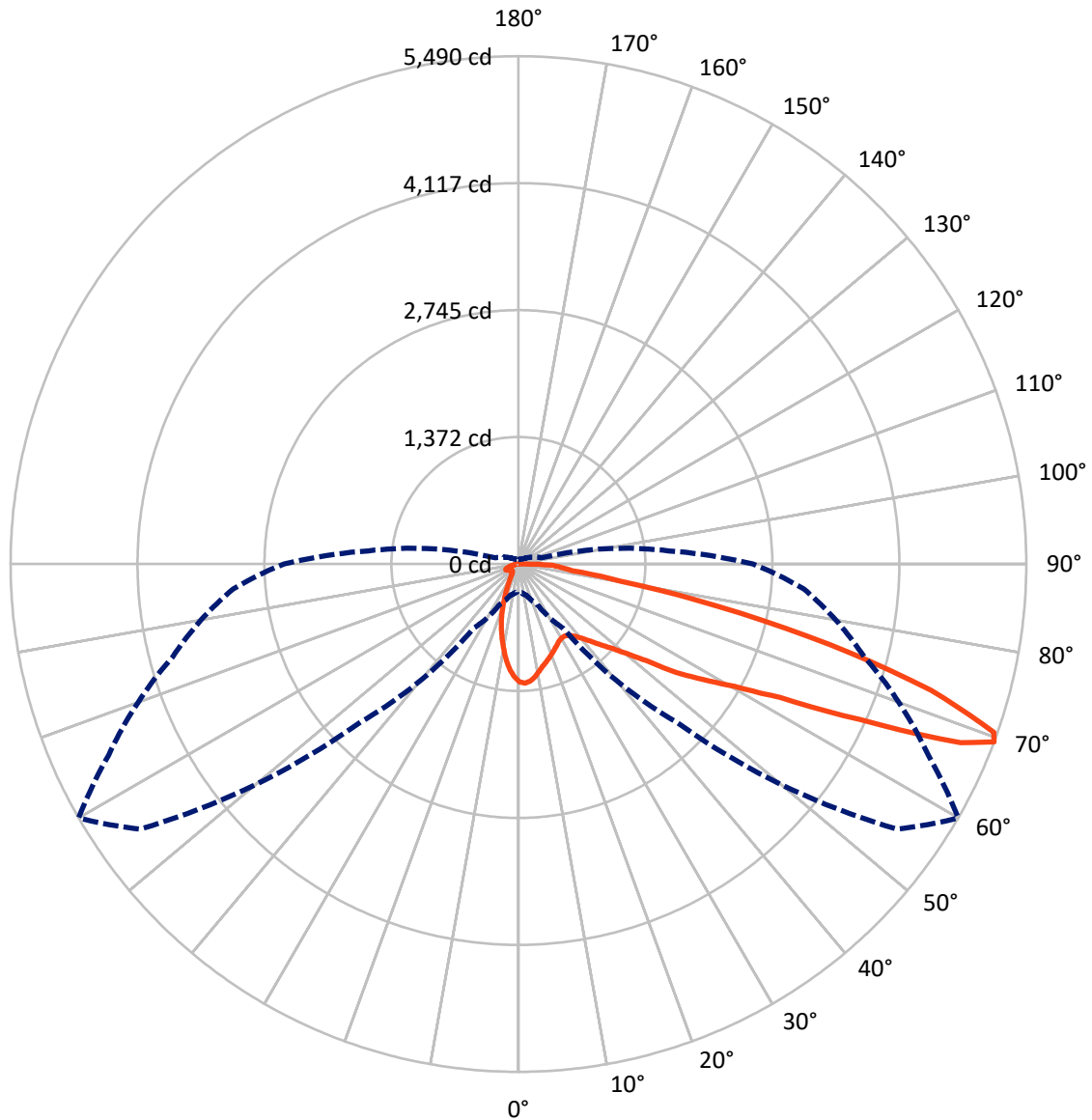
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.7 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	712.2	0.0	712.2
	% Fixture	14.3	0.0	14.3
Street Side	Lumens	4280.8	0.0	4280.8
	% Fixture	85.7	0.0	85.7
Total	Lumens	4993.0	0.0	4993.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.1	2.2
10°-20°	231.4	4.6
20°-30°	295.2	5.9
30°-40°	406.2	8.1
40°-50°	658.0	13.2
50°-60°	1032.7	20.7
60°-70°	1376.8	27.6
70°-80°	765.8	15.3
80°-90°	118.8	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°	4993.0	100.0
0°-180°	4993.0	100.0

Coefficient of Utilization



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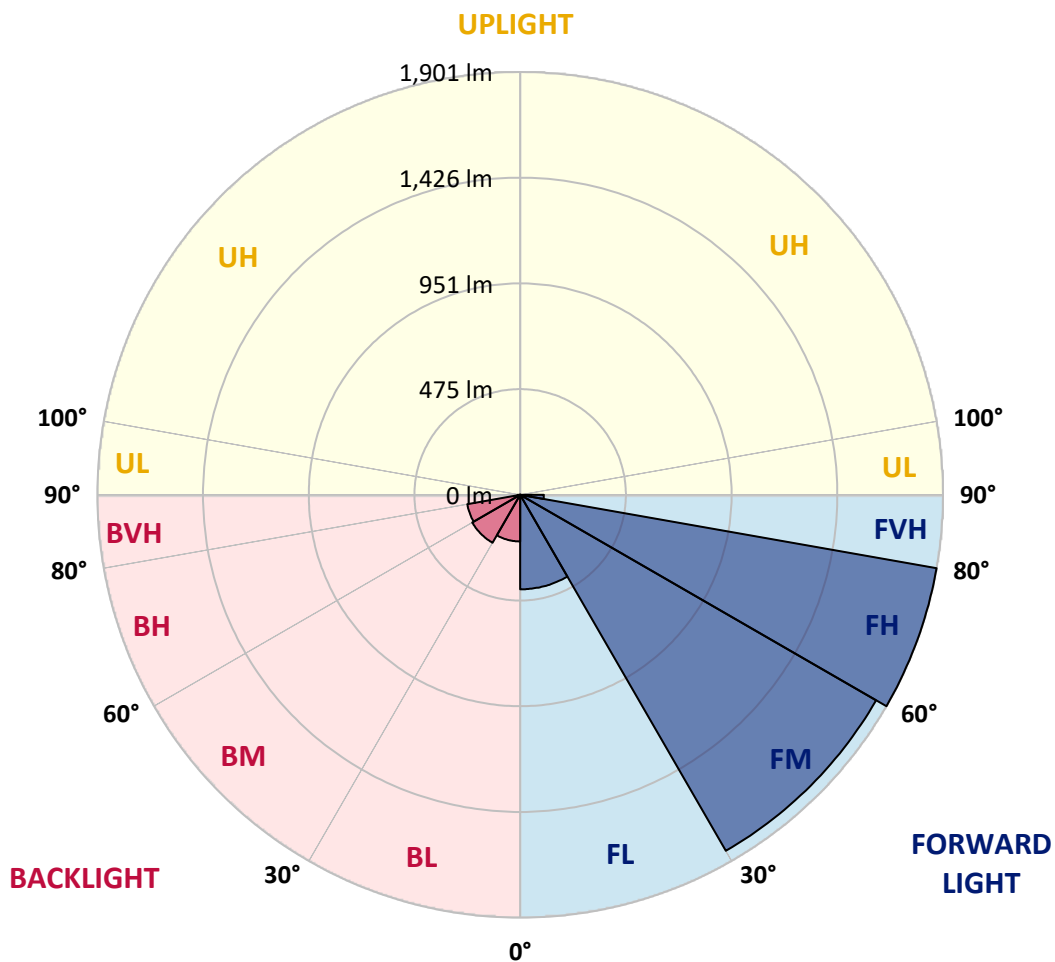
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	424.8	8.5			
FM	(30°-60°)	1848.2	37.0			
FH	(60°-80°)	1901.1	38.1			G2/5000
FVH	(80°-90°)	106.7	2.1			G2/225
BL	(0°-30°)	209.9	4.2	B1/500		
BM	(30°-60°)	248.8	5.0	B1/1000		
BH	(60°-80°)	241.5	4.8	B1/500		G1/500
BVH	(80°-90°)	12.0	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	1274.0	1274.0	1274.0	1274.0	1274.0	1274.0	1274.0	1274.0	1274.0	1274.0	1274.0
2.5°	1307.9	1311.4	1311.4	1308.6	1306.9	1297.7	1292.2	1288.4	1281.7	1269.2	1258.0
5°	1261.2	1267.9	1270.8	1272.0	1280.4	1277.5	1277.9	1275.3	1269.5	1256.1	1237.8
7.5°	1175.4	1176.7	1181.8	1190.4	1210.6	1224.7	1236.2	1238.5	1237.2	1227.2	1201.7
10°	1090.9	1093.1	1099.2	1113.9	1133.1	1153.3	1178.2	1188.5	1196.1	1193.0	1160.6
12.5°	1020.7	1021.0	1027.8	1044.7	1066.2	1091.5	1125.5	1141.4	1159.7	1167.1	1130.9
15°	953.2	957.7	964.0	984.6	1011.1	1043.1	1082.2	1104.3	1128.3	1149.4	1107.9
17.5°	901.9	905.4	909.3	926.3	957.0	997.1	1045.4	1069.1	1100.8	1133.1	1084.1
20°	873.8	875.0	872.2	880.5	906.4	949.6	1005.7	1034.2	1072.0	1117.4	1059.8
22.5°	868.0	868.0	857.4	855.8	867.4	903.9	964.7	999.6	1045.7	1106.5	1038.0
25°	894.9	892.9	873.1	854.9	850.7	869.3	925.7	968.5	1023.3	1106.2	1021.7
27.5°	945.8	943.3	918.6	887.8	861.3	853.2	895.5	939.4	1005.7	1117.1	1013.3
30°	1009.2	1008.2	983.3	944.8	901.0	859.7	883.7	924.3	993.8	1137.3	1013.0
32.5°	1078.7	1074.2	1058.9	1020.4	963.4	895.2	890.7	925.0	990.6	1166.7	1020.4
35°	1152.7	1149.4	1145.6	1106.8	1042.8	958.0	921.8	947.0	1006.3	1207.7	1041.3
37.5°	1246.8	1243.3	1249.6	1207.4	1137.3	1040.2	974.3	991.2	1038.3	1267.2	1079.9
40°	1414.2	1404.0	1386.1	1321.0	1247.4	1141.1	1050.2	1052.7	1093.1	1347.0	1142.0
42.5°	1689.3	1656.3	1567.6	1448.2	1363.6	1258.3	1149.1	1136.9	1168.6	1452.3	1232.3
45°	1964.9	1927.8	1778.0	1586.8	1484.0	1384.2	1271.4	1242.3	1262.7	1574.9	1348.6
47.5°	2143.0	2124.7	1955.7	1725.4	1610.1	1521.1	1411.4	1363.3	1378.0	1714.0	1492.1
50°	2195.2	2179.4	2046.6	1833.9	1729.3	1686.7	1584.6	1520.8	1523.4	1876.2	1663.9
52.5°	2156.1	2149.6	2061.7	1901.3	1838.8	1861.2	1824.3	1735.6	1714.6	2054.3	1850.3
55°	2103.9	2106.2	2072.2	1968.8	1950.2	2023.8	2138.2	2066.8	1977.1	2239.6	2044.4
57.5°	1939.6	1941.3	2030.3	2097.5	2162.8	2251.8	2382.5	2352.4	2247.9	2439.7	2261.7
60°	1561.8	1574.3	1772.5	2070.9	2405.8	2701.0	2733.0	2681.2	2536.1	2670.3	2544.5
62.5°	1115.8	1127.0	1356.6	1797.8	2377.3	3209.5	3380.4	3174.2	2927.1	3015.1	2942.1
65°	586.3	584.3	762.0	1242.3	2002.4	3327.2	4400.5	4049.6	3585.6	3489.3	3326.3
67.5°	327.5	338.1	406.9	626.6	1305.1	2928.3	5052.0	5155.5	4501.4	3865.5	3309.7
69°	302.9	306.4	352.5	484.5	850.7	2416.1	4996.1	5489.5	4887.6	3867.1	3096.5
70°	294.2	298.1	340.0	446.3	714.6	1979.6	4792.1	5450.4	4981.4	3781.3	2902.4
72.5°	263.8	268.9	309.6	401.2	602.2	1020.4	3860.1	4665.0	4512.2	3304.8	2250.5
75°	225.0	233.7	295.2	398.3	570.6	648.7	2574.3	3475.5	3358.3	2363.5	1276.8
77.5°	93.2	94.1	129.0	291.6	598.7	620.8	1383.4	2201.5	1948.9	1036.5	384.5
80°	65.0	63.7	64.3	85.2	483.1	625.0	709.8	1119.6	870.2	273.4	179.9
82.5°	54.7	54.1	56.7	53.5	163.6	709.2	593.6	583.7	409.8	147.3	85.8
85°	36.2	35.2	46.4	48.7	77.8	563.2	638.4	458.8	305.5	78.8	36.5
87.5°	17.6	17.9	26.6	32.9	41.3	178.3	611.5	362.7	236.0	34.3	14.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1274.0	1274.0	1274.0	1274.0	1274.0	1274.0	1274.0	1274.0	1274.0	1274.0	1274.0
2.5°	1253.5	1243.9	1235.2	1224.4	1216.1	1209.0	1199.4	1199.1	1197.5	1199.7	1200.3
5°	1225.6	1209.6	1185.3	1158.1	1138.9	1113.6	1088.9	1080.6	1071.3	1070.3	1073.3
7.5°	1183.7	1158.7	1117.1	1075.4	1033.9	991.2	950.9	930.5	910.6	904.5	907.4
10°	1136.9	1105.3	1041.6	973.6	915.0	851.7	790.2	750.5	714.3	699.0	702.8
12.5°	1100.5	1060.1	970.5	882.4	794.7	703.8	622.8	544.3	485.1	458.5	460.1
15°	1069.1	1017.5	903.9	786.6	676.9	552.3	440.0	349.0	297.2	277.9	277.3
17.5°	1035.1	972.7	834.4	697.7	555.2	401.2	294.6	240.8	220.2	213.9	213.9
20°	998.9	926.6	761.7	600.7	427.1	280.2	221.6	200.7	193.0	191.2	190.8
22.5°	965.4	881.5	688.7	497.3	308.9	212.6	188.6	180.6	179.3	180.9	180.9
25°	938.8	841.8	614.7	388.4	224.7	178.0	167.8	166.8	171.7	177.4	178.3
27.5°	918.9	806.2	541.8	283.7	176.8	155.0	151.4	155.6	166.8	178.3	180.6
30°	905.1	775.8	454.3	204.0	147.3	135.7	137.4	144.7	161.7	179.3	184.1
32.5°	899.1	751.2	366.3	156.6	125.8	119.4	123.6	133.2	150.8	168.4	174.2
35°	904.8	733.3	285.0	130.0	110.2	105.4	110.2	120.1	131.6	140.2	143.7
37.5°	925.7	726.8	214.5	115.3	99.9	95.1	98.9	105.7	110.8	114.0	115.6
40°	969.5	733.6	168.1	107.6	94.1	88.7	89.6	92.9	96.4	98.9	99.2
42.5°	1039.3	755.7	149.6	104.6	90.6	83.6	81.9	84.2	88.1	91.6	92.2
45°	1132.1	792.5	147.6	105.7	89.0	79.4	76.2	78.5	83.6	89.3	90.3
47.5°	1252.2	850.7	156.6	110.8	90.0	77.1	72.3	74.6	81.3	89.0	90.3
50°	1394.4	931.4	173.2	118.5	94.4	77.1	70.8	72.6	79.7	88.4	89.6
52.5°	1561.8	1043.8	190.5	126.1	100.9	80.0	71.4	71.1	77.4	85.5	87.1
55°	1746.6	1183.3	207.1	132.9	104.3	83.9	73.0	69.2	74.3	80.7	81.9
57.5°	1964.0	1374.5	236.3	139.3	106.3	86.7	74.9	67.2	70.1	74.6	75.6
60°	2258.9	1655.3	293.0	150.2	109.9	88.1	75.3	65.4	65.0	68.2	68.5
62.5°	2643.4	1984.1	347.1	163.0	116.8	88.4	74.0	64.0	60.9	61.8	61.8
65°	2916.8	2105.1	331.3	173.9	123.3	88.1	72.6	63.1	57.6	56.1	56.1
67.5°	2761.3	1859.6	281.4	176.8	123.9	84.5	69.8	60.9	54.7	50.9	50.9
69°	2532.6	1630.1	258.4	171.7	118.8	80.4	66.6	58.6	52.8	48.4	48.4
70°	2346.2	1456.2	244.3	165.5	112.7	76.8	63.7	56.4	50.9	47.1	46.7
72.5°	1751.7	971.7	208.8	142.8	92.6	65.0	55.8	50.2	45.8	43.3	43.3
75°	924.3	487.0	170.9	116.5	71.4	51.9	45.8	42.2	39.7	39.4	39.1
77.5°	302.9	220.2	123.0	87.8	52.5	40.3	36.5	34.3	34.0	35.2	35.2
80°	163.6	131.6	79.1	59.2	36.5	30.1	28.1	27.8	28.8	30.7	30.7
82.5°	79.4	65.0	47.1	36.5	25.0	22.1	22.1	22.4	23.7	26.0	26.0
85°	34.3	30.7	27.2	20.5	15.3	13.8	15.7	17.3	18.2	19.8	20.5
87.5°	16.4	14.4	12.5	8.0	6.8	7.1	8.3	10.2	12.2	13.4	13.8
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)