

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: P271230

Luminaire Tested: **XNV-AF-01-LED-U-SL2-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271230
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24257)
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-SL2-7027-1200
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5650.4 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 66
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

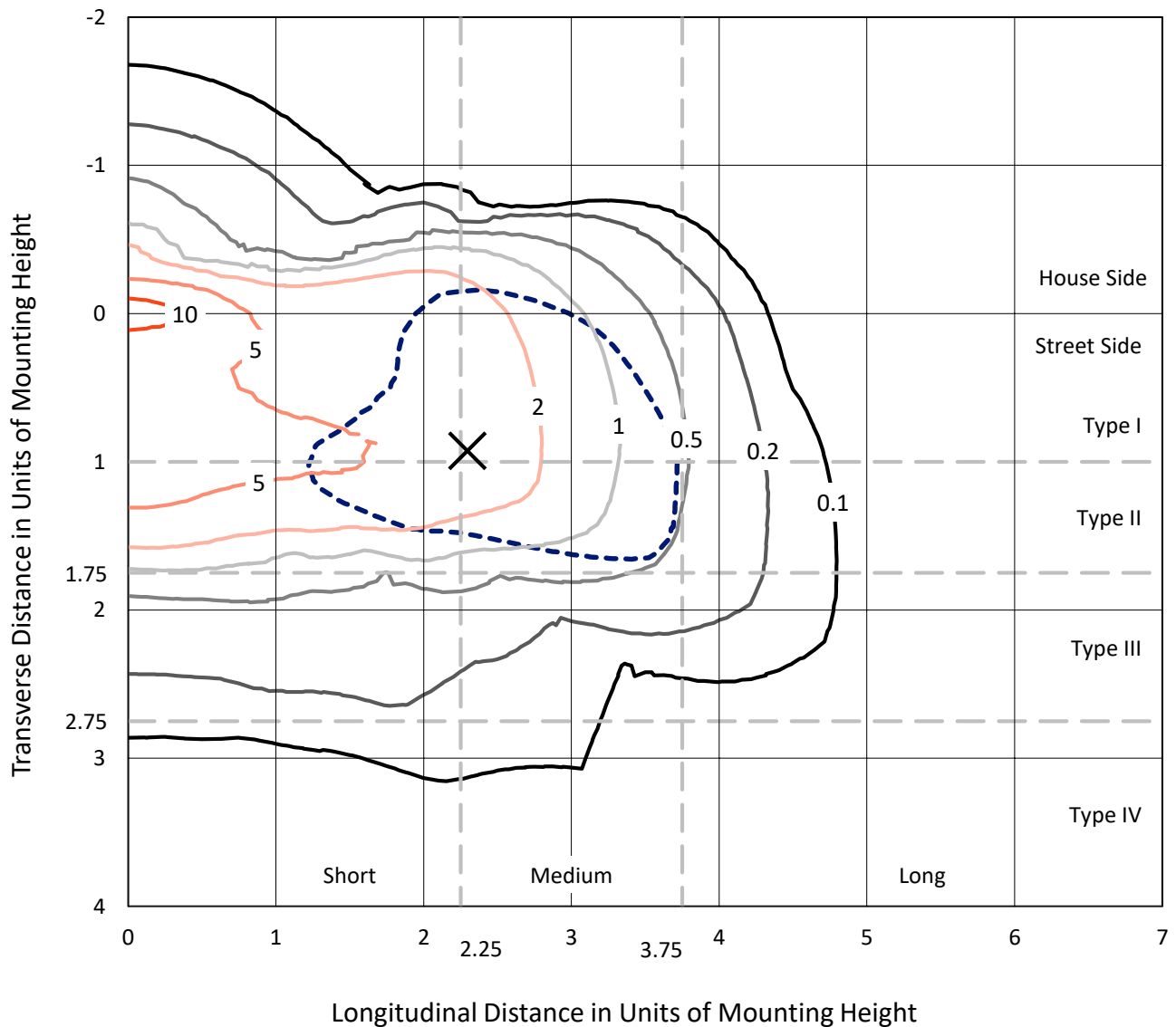


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Iso-Footcandle Lines of Horizontal Illumination

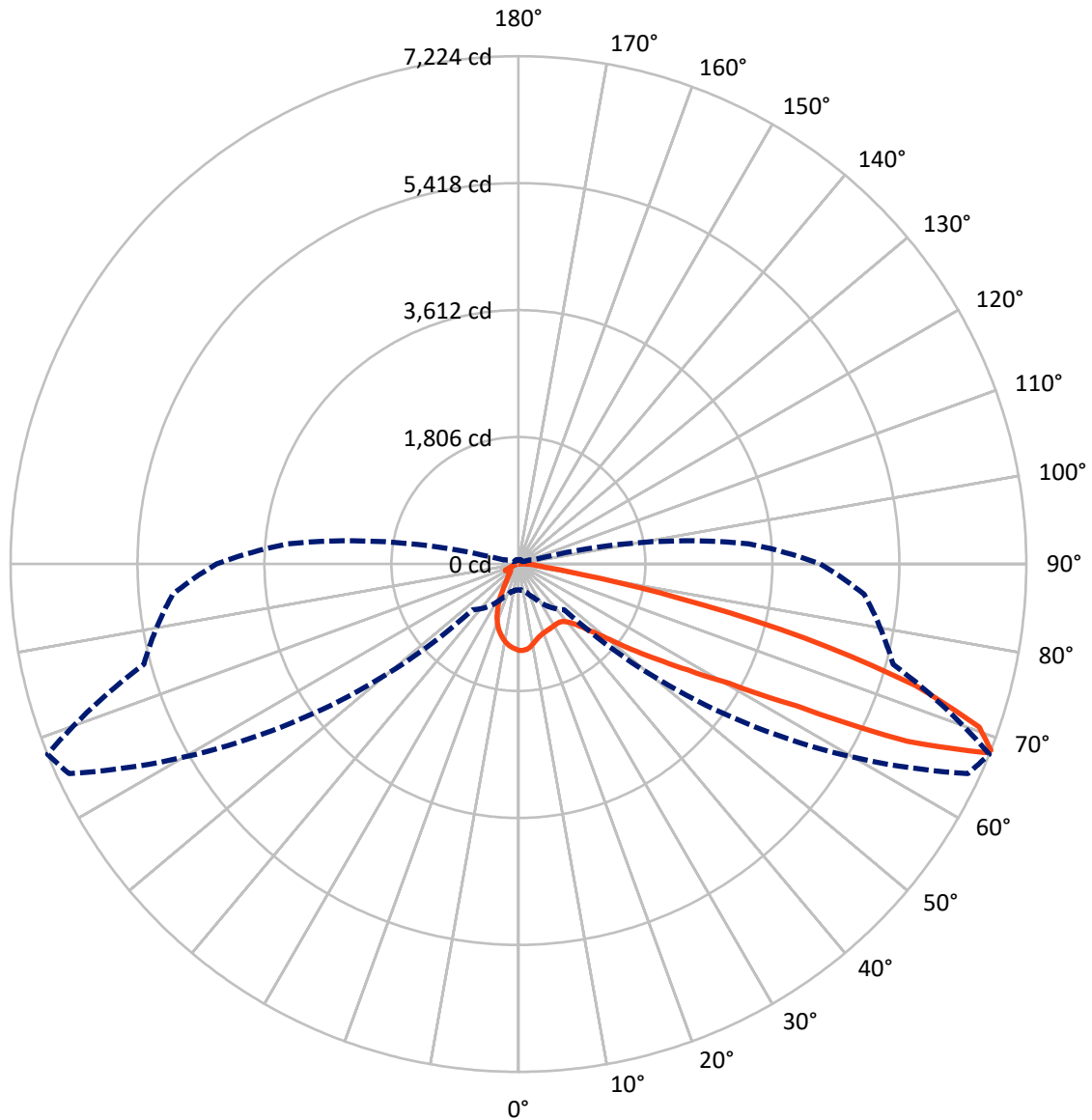
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.3 fc
 Type II - Medium - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	924.4	0.0	924.4
	% Fixture	16.4	0.0	16.4
Street Side	Lumens	4726.0	0.0	4726.0
	% Fixture	83.6	0.0	83.6
Total	Lumens	5650.4	0.0	5650.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.3	1.9
10°-20°	244.3	4.3
20°-30°	330.5	5.8
30°-40°	465.9	8.2
40°-50°	766.2	13.6
50°-60°	1187.6	21.0
60°-70°	1539.8	27.3
70°-80°	883.6	15.6
80°-90°	127.1	2.3
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°	5650.4	100.0
0°-180°	5650.4	100.0

Coefficient of Utilization



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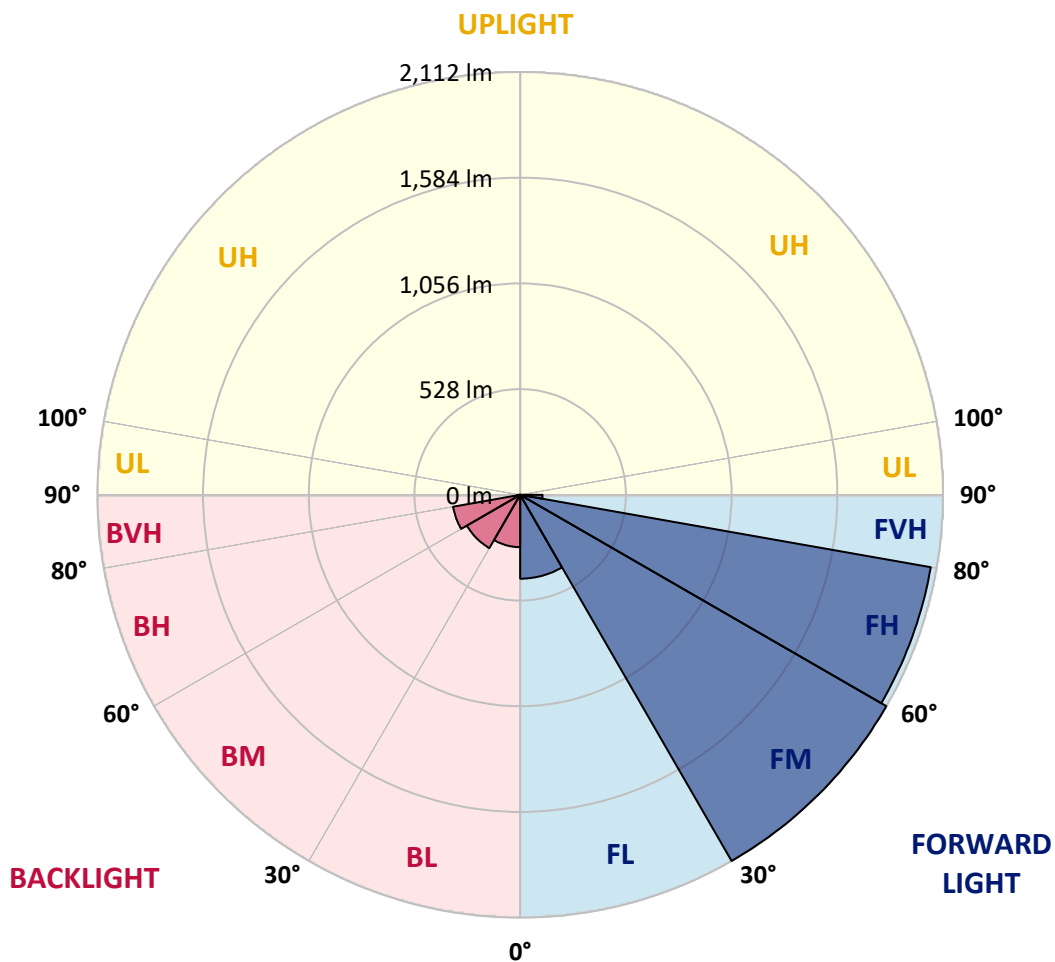
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	418.8	7.4			
FM (30°-60°)	2112.2	37.4			
FH (60°-80°)	2083.0	36.9			G2/5000
FVH (80°-90°)	112.0	2.0			G2/225
BL (0°-30°)	261.3	4.6	B1/500		
BM (30°-60°)	307.5	5.4	B1/1000		
BH (60°-80°)	340.5	6.0	B1/500		G1/500
BVH (80°-90°)	15.2	0.3			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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	1229.5	1229.5	1229.5	1229.5	1229.5	1229.5	1229.5	1229.5	1229.5	1229.5	1229.5
2.5°	1196.6	1206.2	1206.2	1213.3	1219.4	1224.7	1229.2	1229.2	1229.2	1226.1	1223.6
5°	1070.8	1083.6	1085.5	1103.3	1126.5	1155.0	1186.7	1214.7	1220.3	1230.6	1234.6
7.5°	983.3	987.3	994.3	1006.6	1030.1	1065.2	1115.1	1177.8	1192.9	1225.4	1242.4
10°	921.3	924.5	930.6	942.7	964.2	995.9	1044.9	1126.5	1151.5	1209.2	1242.7
12.5°	875.8	878.5	884.0	895.2	916.8	945.2	995.4	1080.3	1111.4	1192.9	1247.9
15°	840.5	844.9	849.3	859.9	882.1	909.4	960.4	1046.7	1080.3	1180.1	1257.5
17.5°	826.4	828.6	829.3	835.0	854.8	882.6	933.5	1023.2	1057.8	1169.7	1265.0
20°	835.2	835.7	828.2	824.6	836.1	861.5	910.9	1005.5	1040.9	1160.4	1267.9
22.5°	874.1	874.1	854.8	838.6	830.8	846.7	895.8	993.3	1031.7	1153.5	1267.9
25°	947.8	944.5	914.7	882.6	848.2	841.5	886.2	985.5	1024.6	1149.7	1263.0
27.5°	1044.9	1041.9	1003.9	956.3	894.4	852.6	882.9	979.2	1017.6	1144.3	1252.7
30°	1163.0	1160.4	1117.2	1054.9	963.3	887.6	890.6	974.8	1012.1	1135.0	1235.3
32.5°	1280.8	1279.2	1245.1	1181.1	1058.7	947.2	910.9	974.0	1009.2	1123.9	1214.4
35°	1399.3	1399.3	1378.2	1324.3	1186.7	1036.5	953.5	987.6	1014.6	1118.0	1196.3
37.5°	1574.2	1567.3	1528.0	1472.3	1347.9	1152.3	1022.0	1016.5	1036.0	1128.0	1190.3
40°	1845.1	1824.8	1727.0	1633.3	1524.1	1300.7	1122.4	1072.2	1084.1	1162.0	1204.4
42.5°	2128.7	2096.5	1966.8	1817.1	1706.1	1483.8	1254.3	1162.6	1162.2	1227.7	1249.1
45°	2371.9	2355.3	2215.0	2024.9	1913.7	1689.7	1420.7	1297.1	1283.8	1329.5	1335.1
47.5°	2513.2	2502.0	2417.6	2244.9	2160.3	1933.1	1631.9	1483.5	1458.3	1485.6	1477.2
50°	2474.1	2484.8	2460.4	2372.2	2425.3	2274.8	1900.9	1738.8	1691.1	1718.5	1697.8
52.5°	2268.1	2297.0	2318.6	2335.7	2577.7	2732.0	2238.9	2057.7	2018.2	2013.5	1993.5
55°	1897.2	1942.9	2011.7	2136.3	2536.9	3099.3	2829.5	2443.4	2385.9	2355.5	2363.4
57.5°	1291.1	1360.6	1508.6	1745.9	2323.8	3255.8	3702.9	2941.7	2844.4	2736.4	2761.6
60°	711.3	769.2	945.2	1184.4	1837.8	3232.6	4476.9	3751.5	3444.8	3159.1	3210.8
62.5°	460.3	472.8	603.8	809.1	1128.0	2853.8	4906.8	5105.1	4455.1	3716.5	3789.2
65°	369.8	378.6	443.0	652.6	785.7	1835.9	4926.0	6509.1	6080.5	4473.9	4476.1
67.5°	361.4	365.4	402.7	548.9	737.1	999.5	4258.0	7062.7	7162.0	5367.8	4935.6
68°	366.5	371.3	409.0	531.8	736.7	921.3	3935.4	7054.3	7224.3	5517.3	4935.6
70°	323.3	329.1	417.2	550.3	705.3	792.0	2694.7	6679.5	6953.5	5860.9	4683.1
72.5°	169.1	164.2	206.3	434.4	793.9	825.4	1423.6	5580.5	5900.1	5428.0	4046.1
75°	131.8	120.0	115.5	171.7	698.3	855.9	826.8	3966.3	4207.8	3912.8	2704.3
77.5°	124.1	109.7	101.1	101.5	307.5	890.6	668.8	2334.2	2334.2	1866.6	862.9
80°	99.6	86.3	80.8	92.3	148.4	821.0	698.0	1063.8	907.3	482.4	237.7
82.5°	65.7	58.7	59.1	74.9	112.6	548.1	808.4	525.1	394.5	213.6	139.9
85°	41.7	35.8	39.9	52.5	84.1	244.3	800.2	365.0	261.3	120.0	69.8
87.5°	21.0	16.2	19.9	27.3	51.4	70.2	658.8	325.9	193.8	49.9	38.0
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°	1229.5	1229.5	1229.5	1229.5	1229.5	1229.5	1229.5	1229.5	1229.5	1229.5	1229.5
2.5°	1223.6	1215.4	1211.4	1204.7	1196.6	1188.5	1183.0	1180.5	1178.9	1179.7	1179.3
5°	1232.5	1221.8	1204.4	1179.7	1154.2	1127.3	1106.5	1090.7	1080.8	1077.7	1077.1
7.5°	1239.0	1223.6	1191.2	1146.1	1102.5	1055.2	1015.1	982.9	961.1	951.1	950.8
10°	1238.0	1218.0	1166.7	1100.2	1036.5	967.0	904.0	850.1	810.9	792.0	791.3
12.5°	1239.0	1211.8	1136.8	1046.7	955.3	855.9	762.2	678.4	620.1	592.4	591.4
15°	1243.6	1205.2	1106.3	987.0	860.3	720.1	586.1	481.0	427.9	409.6	409.6
17.5°	1243.2	1194.0	1070.8	917.6	747.7	560.0	400.1	335.2	329.9	346.6	349.3
20°	1235.8	1176.3	1025.0	835.2	615.7	387.6	271.3	262.0	303.4	349.3	354.3
22.5°	1224.3	1153.5	972.2	739.7	461.8	252.5	209.2	223.3	279.5	336.2	344.4
25°	1208.4	1125.8	911.7	628.5	307.1	181.5	174.6	192.0	231.5	269.4	275.3
27.5°	1185.1	1090.7	845.7	508.3	196.0	149.5	152.1	164.2	181.2	197.4	200.9
30°	1155.9	1049.7	773.6	375.0	148.8	133.6	138.0	145.4	152.8	163.1	165.4
32.5°	1126.5	1008.0	698.7	257.6	130.0	125.1	129.5	133.6	139.9	147.0	148.4
35°	1100.0	969.2	621.5	179.8	121.8	119.6	121.8	124.3	130.7	137.7	138.3
37.5°	1080.8	937.6	541.0	142.1	117.0	114.9	115.9	117.0	124.3	134.7	135.9
40°	1078.1	916.5	459.6	127.6	113.4	110.3	109.7	110.3	120.0	131.8	132.9
42.5°	1103.3	917.6	379.9	121.8	110.3	107.1	104.2	105.6	114.1	123.2	124.1
45°	1162.6	943.4	310.8	119.3	107.7	105.2	100.8	101.5	105.6	110.3	111.1
47.5°	1267.5	1000.0	258.1	117.8	105.6	103.3	97.8	95.6	95.9	98.5	98.5
50°	1435.0	1094.3	226.0	116.3	103.8	99.6	93.3	88.9	87.9	89.3	89.7
52.5°	1685.0	1256.4	210.5	113.4	100.4	94.9	87.9	83.5	81.6	83.1	83.1
55°	2022.7	1515.1	202.9	109.2	96.4	88.9	82.6	79.1	77.6	78.6	78.6
57.5°	2407.6	1851.3	215.6	103.8	91.2	82.6	78.2	75.6	74.6	75.6	76.0
60°	2865.0	2291.3	301.9	96.7	85.6	77.2	74.6	73.1	72.4	73.4	73.4
62.5°	3472.8	2876.7	467.3	91.2	79.7	72.0	71.2	70.4	69.8	70.8	70.8
65°	4129.1	3409.3	481.0	87.9	74.6	67.6	67.9	67.9	67.2	68.4	68.4
67.5°	4338.1	3363.3	268.8	83.8	68.4	63.2	64.6	64.6	64.1	65.3	64.9
68°	4293.8	3290.1	234.0	82.6	67.2	62.1	63.5	63.9	63.5	64.6	64.1
70°	3963.9	2888.6	153.9	76.4	62.4	58.3	60.5	60.9	60.5	62.1	61.7
72.5°	3272.0	2166.6	113.6	66.8	56.5	53.4	55.8	56.1	56.5	57.9	57.6
75°	2078.0	1196.6	89.7	56.9	50.6	48.0	50.1	51.4	52.0	54.3	53.2
77.5°	569.2	363.2	72.8	48.4	43.6	42.4	43.9	45.5	46.2	48.7	46.9
80°	199.3	160.5	60.5	41.0	36.2	35.8	37.3	38.7	39.4	41.7	39.4
82.5°	121.0	104.8	48.4	32.1	28.4	28.0	30.0	31.4	32.1	32.1	30.6
85°	63.2	55.3	35.5	22.5	19.6	18.4	21.7	23.6	24.0	23.6	22.5
87.5°	35.5	31.4	18.9	10.7	8.9	9.3	11.5	14.1	15.1	14.7	14.1
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)