

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: McGRAW-EDISON

Report Number: P300541

Luminaire Tested: **GLNA-AF-02-LED-E1-RW-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300541
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-02-LED-E1-RW-7027
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND
Rectangular Wide Type I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10779 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G3

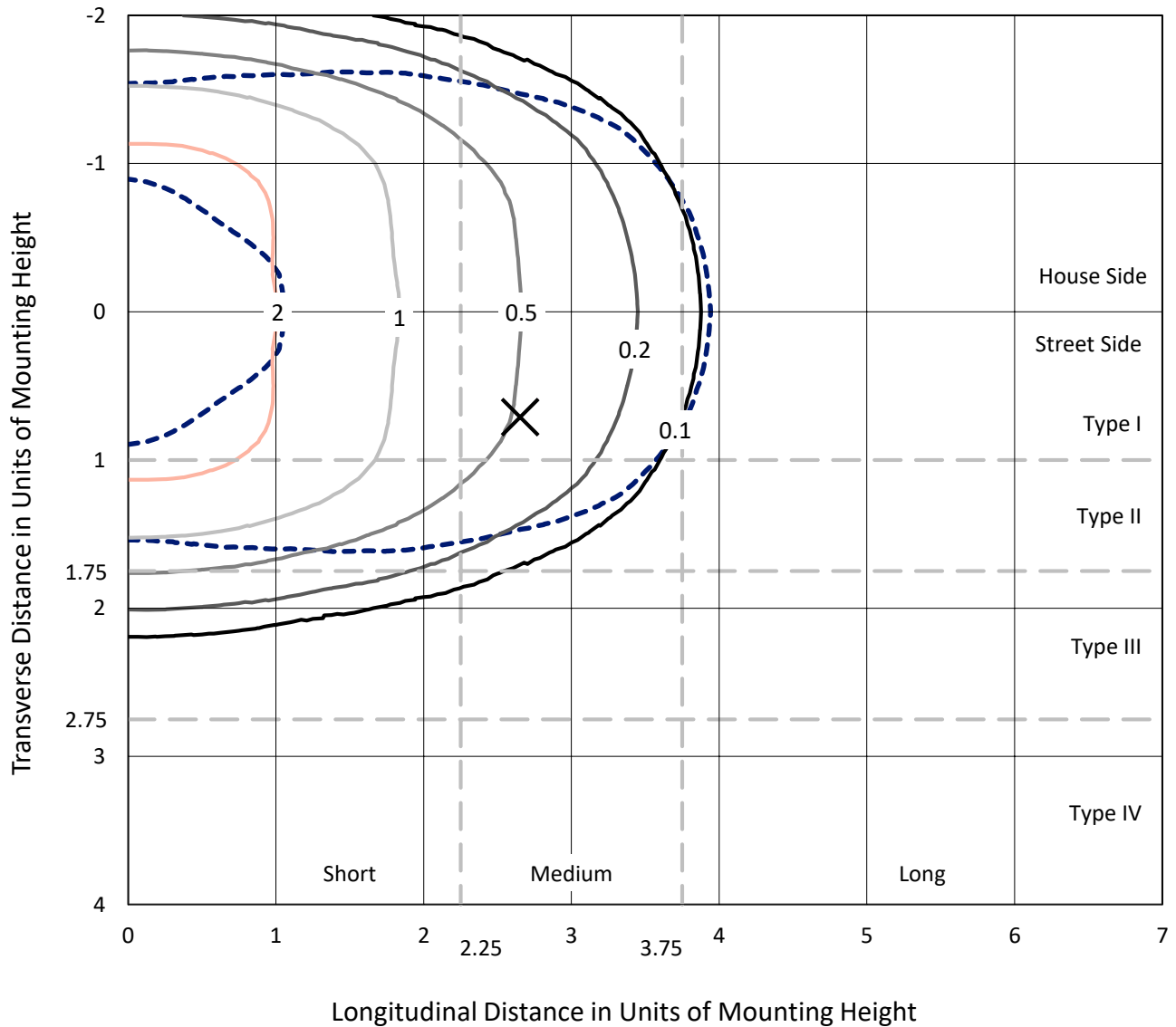
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

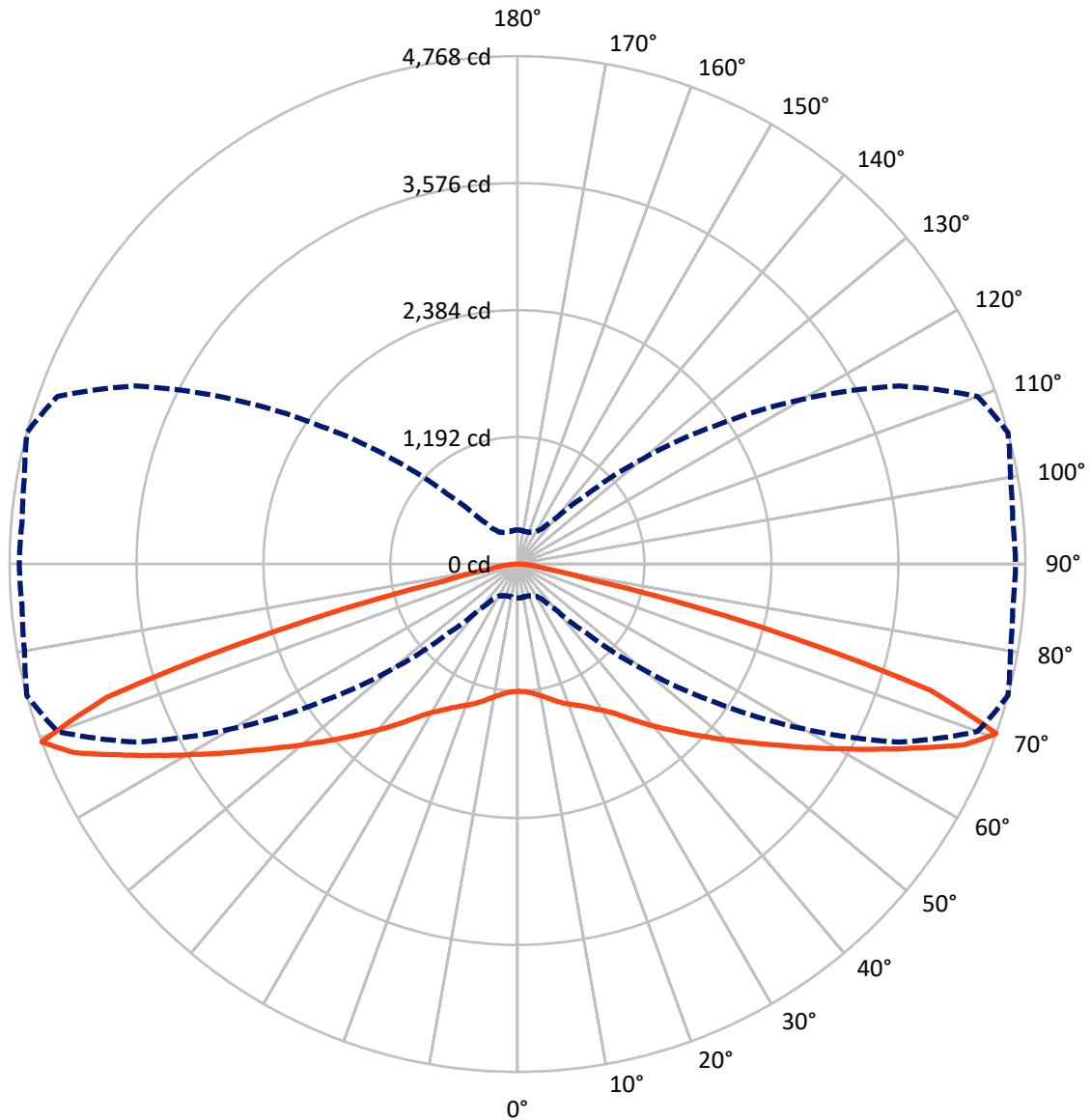
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5389.5	0.0	5389.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5389.5	0.0	5389.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	10779.0	0.0	10779.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.7	1.1
10°-20°	356.3	3.3
20°-30°	670.6	6.2
30°-40°	1187.5	11.0
40°-50°	1985.9	18.4
50°-60°	2767.4	25.7
60°-70°	2566.3	23.8
70°-80°	1022.7	9.5
80°-90°	107.5	1.0
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°	10779.0	100.0
0°-180°	10779.0	100.0



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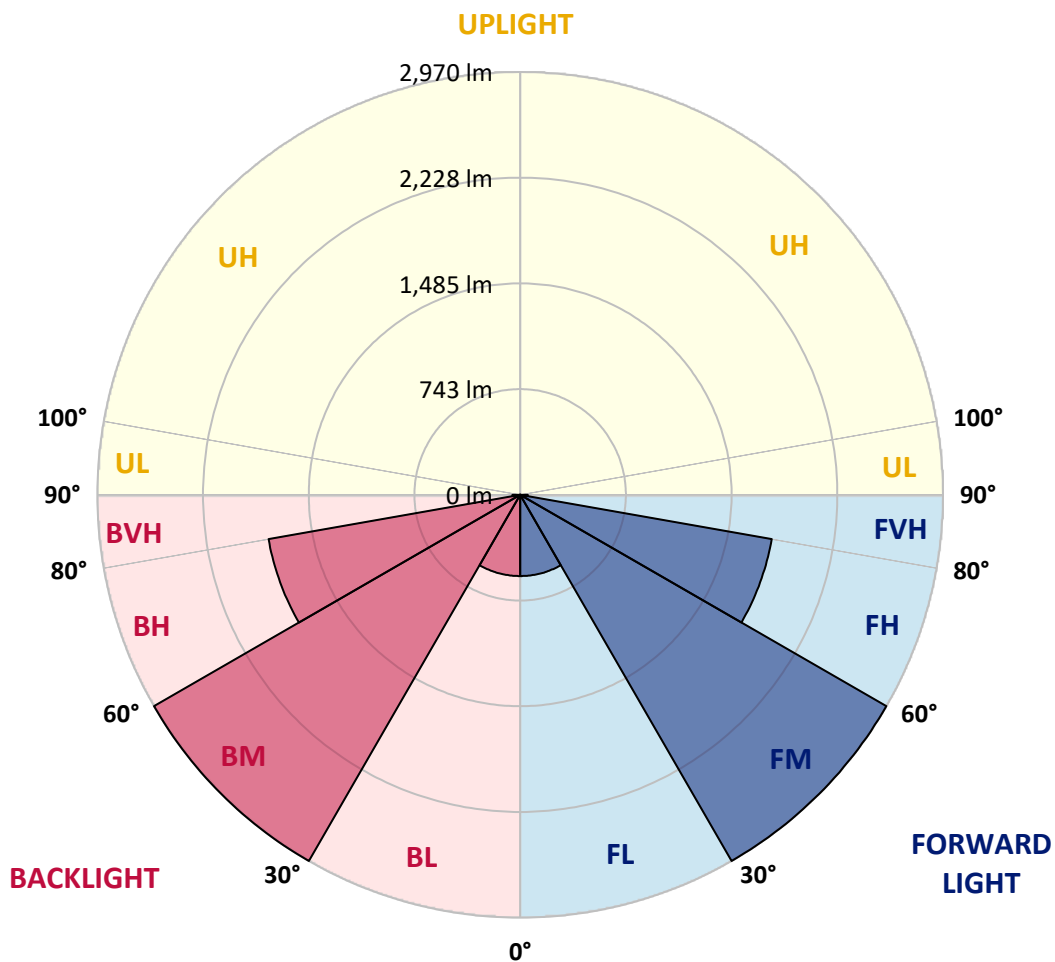
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	570.8	5.3			
FM	(30°-60°)	2970.4	27.6			
FH	(60°-80°)	1794.5	16.6			G1/1800
FVH	(80°-90°)	53.8	0.5			G1/100
BL	(0°-30°)	570.8	5.3	B2/1000		
BM	(30°-60°)	2970.4	27.6	B3/5000		
BH	(60°-80°)	1794.5	16.6	B3/2500		G3/2500
BVH	(80°-90°)	53.8	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1195.6	1195.6	1195.6	1195.6	1195.6	1195.6	1195.6	1195.6	1195.6	1195.6	1195.6
2.5°	1193.6	1192.6	1193.6	1193.1	1194.1	1194.1	1195.1	1197.2	1197.2	1198.7	1198.2
5°	1181.9	1181.4	1182.9	1184.4	1186.0	1189.0	1192.1	1196.7	1200.2	1202.8	1205.3
7.5°	1159.0	1159.0	1161.0	1164.6	1168.1	1174.8	1181.9	1191.1	1200.2	1207.9	1214.5
10°	1140.1	1141.1	1143.7	1149.8	1155.9	1166.1	1175.8	1189.0	1201.8	1214.5	1224.7
12.5°	1128.9	1130.4	1135.0	1144.2	1154.4	1168.1	1182.9	1199.7	1214.0	1229.3	1239.5
15°	1132.5	1133.5	1140.1	1151.3	1164.6	1181.9	1201.8	1221.6	1238.4	1254.7	1268.5
17.5°	1152.3	1153.9	1161.5	1174.2	1188.0	1208.4	1229.8	1252.2	1273.1	1291.4	1308.2
20°	1188.0	1189.5	1199.2	1213.0	1229.3	1250.2	1271.5	1295.0	1318.4	1337.8	1356.6
22.5°	1238.4	1241.0	1250.2	1263.9	1282.2	1304.7	1330.1	1355.1	1377.5	1395.3	1412.2
25°	1304.7	1310.3	1318.9	1334.2	1353.6	1373.9	1401.5	1426.9	1448.3	1465.1	1477.4
27.5°	1398.4	1406.0	1412.7	1427.4	1446.3	1465.6	1493.2	1515.6	1535.9	1552.2	1561.4
30°	1522.7	1530.3	1537.0	1551.2	1568.6	1586.9	1612.9	1632.7	1645.5	1658.2	1657.7
32.5°	1673.5	1681.6	1684.2	1699.5	1717.3	1737.2	1760.6	1771.8	1782.0	1783.5	1774.4
35°	1842.1	1846.2	1856.4	1876.8	1897.1	1913.4	1935.9	1941.5	1941.5	1933.8	1913.4
37.5°	2027.0	2029.6	2043.9	2066.8	2087.7	2104.5	2119.8	2131.0	2125.4	2109.1	2074.9
40°	2229.8	2234.4	2254.8	2275.1	2298.6	2314.4	2330.7	2332.7	2327.1	2303.2	2256.8
42.5°	2423.4	2427.5	2447.8	2479.9	2510.5	2532.4	2547.7	2550.7	2532.9	2511.0	2453.4
45°	2590.0	2600.7	2627.2	2664.9	2709.2	2740.3	2761.1	2769.8	2754.0	2725.5	2658.7
47.5°	2721.9	2732.6	2770.3	2815.1	2870.2	2920.6	2955.2	2973.6	2969.5	2948.1	2875.3
50°	2818.7	2828.9	2869.6	2924.7	2988.9	3051.5	3110.6	3154.4	3169.7	3160.0	3093.3
52.5°	2829.9	2846.7	2894.6	2968.5	3052.0	3137.6	3221.7	3296.0	3346.5	3354.1	3304.7
55°	2673.5	2690.3	2756.6	2866.1	2990.4	3130.0	3264.5	3389.8	3489.1	3540.1	3514.1
57.5°	2304.7	2334.7	2404.5	2532.9	2715.8	2924.7	3139.1	3361.8	3564.0	3699.0	3725.0
60°	1766.2	1801.9	1872.2	2008.7	2212.5	2461.6	2747.9	3077.0	3434.1	3737.7	3919.1
62.5°	1133.0	1166.6	1240.5	1359.2	1525.2	1795.2	2102.4	2493.2	2973.1	3452.4	3884.4
65°	582.3	600.6	639.3	711.2	840.6	1042.3	1317.9	1707.6	2256.3	2847.7	3472.3
67.5°	368.8	372.4	381.1	391.2	424.4	494.2	622.5	865.5	1316.9	1933.8	2664.9
70°	318.9	318.9	314.8	313.3	317.4	327.1	346.9	403.5	555.8	918.0	1537.0
72.5°	291.9	288.8	281.7	276.1	275.1	275.1	279.2	287.8	312.3	373.9	601.6
75°	269.0	260.3	250.6	244.0	241.5	238.9	238.4	239.9	245.0	254.7	287.3
77.5°	241.0	229.8	218.5	211.9	208.9	205.3	202.2	198.7	196.1	199.2	213.5
80°	207.3	194.6	185.9	181.9	178.8	173.7	167.1	161.0	155.4	154.4	163.0
82.5°	167.1	152.3	152.8	154.4	148.8	141.6	134.5	127.9	118.2	113.1	118.2
85°	135.0	127.4	123.8	133.5	125.3	114.6	103.4	91.7	76.4	64.2	69.8
87.5°	52.5	52.5	78.5	120.7	108.5	88.6	75.9	64.7	40.2	31.1	31.6
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1195.6	1195.6	1195.6	1195.6	1195.6	1195.6	1195.6	1195.6
2.5°	1197.7	1198.7	1198.2	1197.7	1197.7	1197.2	1197.7	1197.7
5°	1206.9	1209.4	1209.4	1210.4	1210.4	1210.9	1211.4	1210.9
7.5°	1220.6	1225.2	1228.2	1231.8	1232.3	1232.8	1233.9	1232.8
10°	1234.4	1243.5	1250.2	1256.8	1259.8	1260.9	1261.9	1261.9
12.5°	1251.7	1264.4	1276.1	1287.9	1293.5	1296.5	1296.5	1298.5
15°	1280.2	1292.9	1306.7	1322.5	1332.2	1337.3	1338.8	1338.8
17.5°	1320.5	1331.7	1343.4	1358.7	1370.9	1377.5	1379.0	1378.5
20°	1367.3	1378.0	1384.6	1394.3	1405.0	1412.7	1414.7	1414.7
22.5°	1420.8	1426.9	1427.9	1431.0	1439.7	1449.9	1454.4	1455.5
25°	1479.9	1481.4	1477.4	1477.4	1483.0	1492.6	1497.2	1497.7
27.5°	1556.3	1548.7	1538.5	1534.9	1538.5	1549.7	1555.3	1557.3
30°	1651.6	1633.2	1609.8	1597.1	1595.0	1609.8	1620.0	1621.5
32.5°	1760.6	1734.1	1703.0	1677.1	1670.4	1679.6	1691.8	1691.3
35°	1890.0	1858.4	1820.7	1787.6	1772.3	1781.5	1798.8	1800.9
37.5°	2039.3	1998.0	1954.7	1912.9	1889.0	1891.5	1909.9	1916.0
40°	2205.9	2152.4	2097.9	2041.8	2007.7	2001.1	2023.5	2027.0
42.5°	2384.2	2315.4	2246.6	2177.3	2133.5	2123.3	2149.3	2147.8
45°	2574.2	2486.6	2406.1	2329.6	2277.7	2262.4	2283.8	2283.8
47.5°	2778.5	2670.5	2574.7	2488.1	2431.5	2409.6	2430.0	2431.5
50°	2995.0	2880.3	2767.8	2671.5	2603.7	2575.7	2602.2	2606.3
52.5°	3210.5	3098.9	2985.3	2875.3	2793.2	2759.1	2789.7	2802.9
55°	3429.0	3319.5	3211.0	3103.5	3006.2	2965.9	2998.5	3015.3
57.5°	3659.8	3558.4	3455.0	3346.5	3252.7	3190.1	3224.7	3247.1
60°	3930.3	3843.7	3736.2	3616.5	3521.7	3458.0	3477.9	3497.8
62.5°	4144.3	4177.9	4086.7	3948.1	3826.4	3744.9	3764.2	3785.1
65°	4040.8	4385.7	4466.7	4326.6	4158.0	4031.2	4023.0	4033.7
67.5°	3377.6	4047.5	4536.0	4669.5	4528.4	4352.1	4319.5	4335.3
70°	2259.3	3093.8	3955.8	4597.7	4768.3	4700.0	4668.0	4677.6
72.5°	1085.1	1801.9	2683.7	3537.0	4056.6	4295.0	4371.5	4408.7
75°	396.8	715.2	1293.5	1949.1	2353.1	2723.9	2965.9	3064.8
77.5°	239.4	288.8	413.2	622.0	704.5	788.6	756.0	772.3
80°	177.3	200.2	226.7	254.7	263.9	263.9	253.7	245.5
82.5°	124.3	139.1	151.8	167.1	171.2	163.5	134.5	107.0
85°	80.0	86.6	92.2	101.9	99.3	94.8	63.7	56.5
87.5°	36.7	41.8	43.8	48.4	46.4	44.3	31.6	26.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)