

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: P300542

Luminaire Tested: **GLNA-AF-02-LED-E1-RW-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300542
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-7030
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K 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: 12000.3 lumens
Efficiency: N/A
Efficacy: 106.2 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

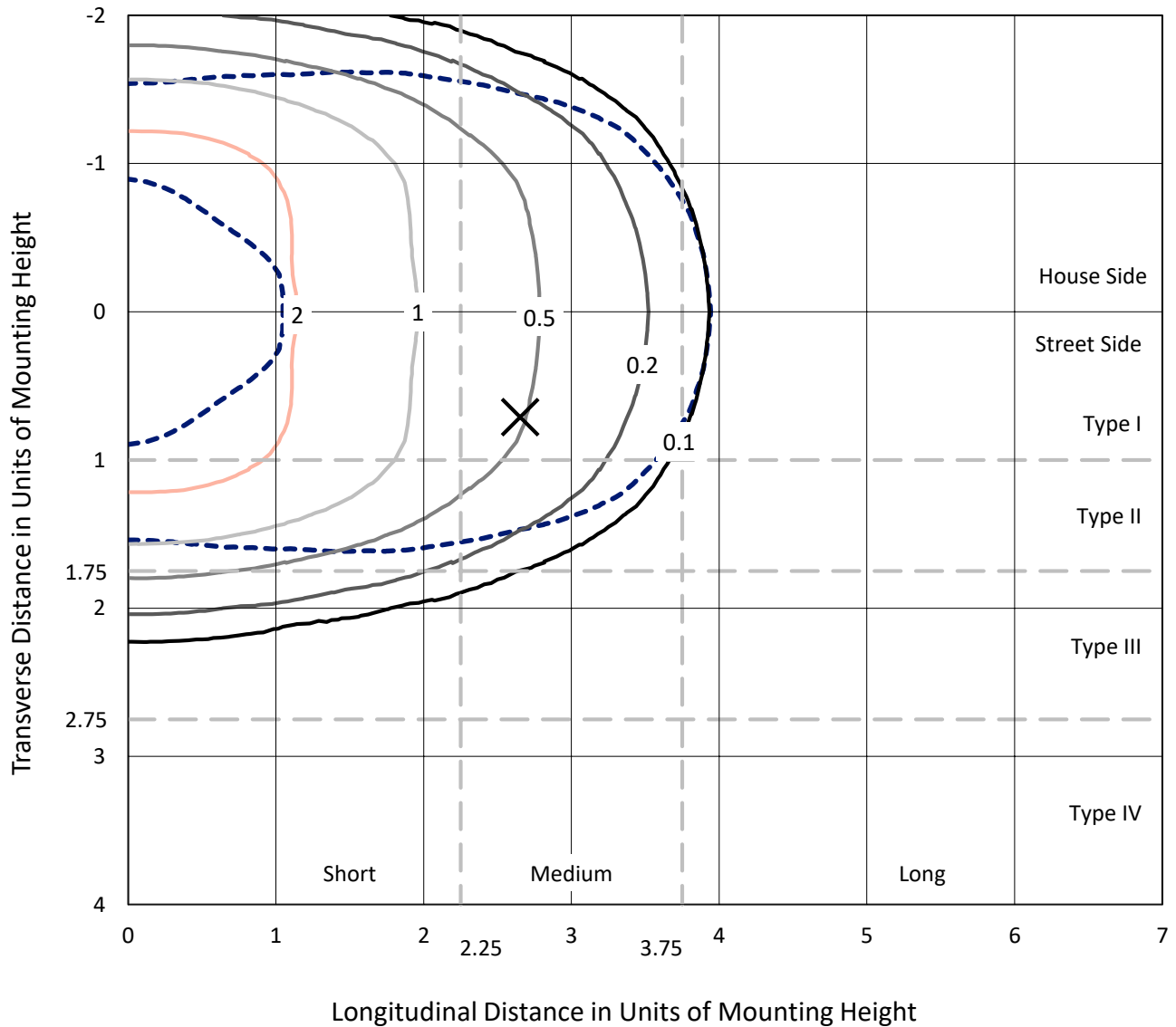
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

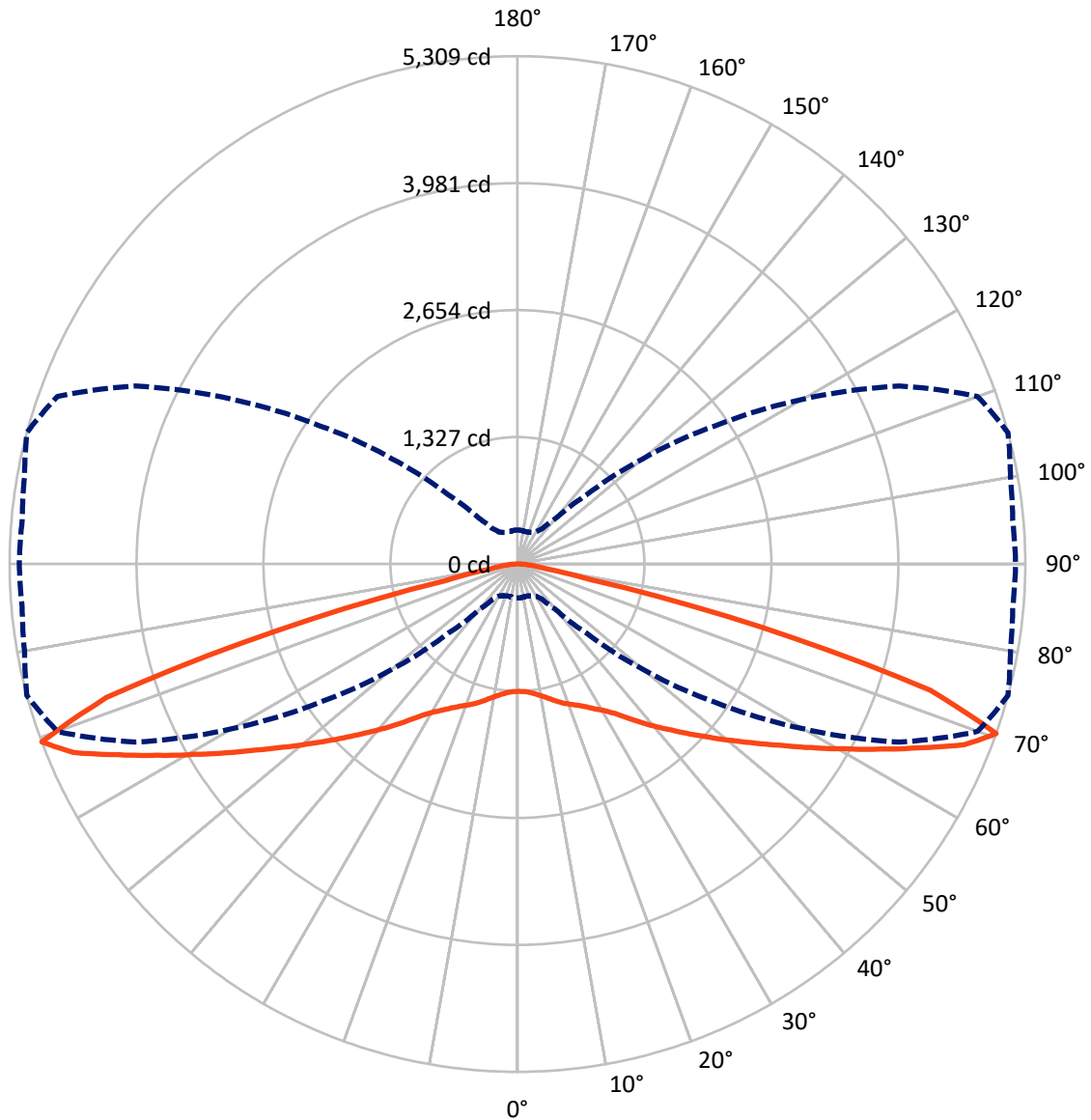
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.4 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	6000.1	0.0	6000.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6000.1	0.0	6000.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	12000.3	0.0	12000.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.7	1.1
10°-20°	396.7	3.3
20°-30°	746.6	6.2
30°-40°	1322.1	11.0
40°-50°	2210.9	18.4
50°-60°	3080.9	25.7
60°-70°	2857.1	23.8
70°-80°	1138.6	9.5
80°-90°	119.7	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°	12000.3	100.0
0°-180°	12000.3	100.0



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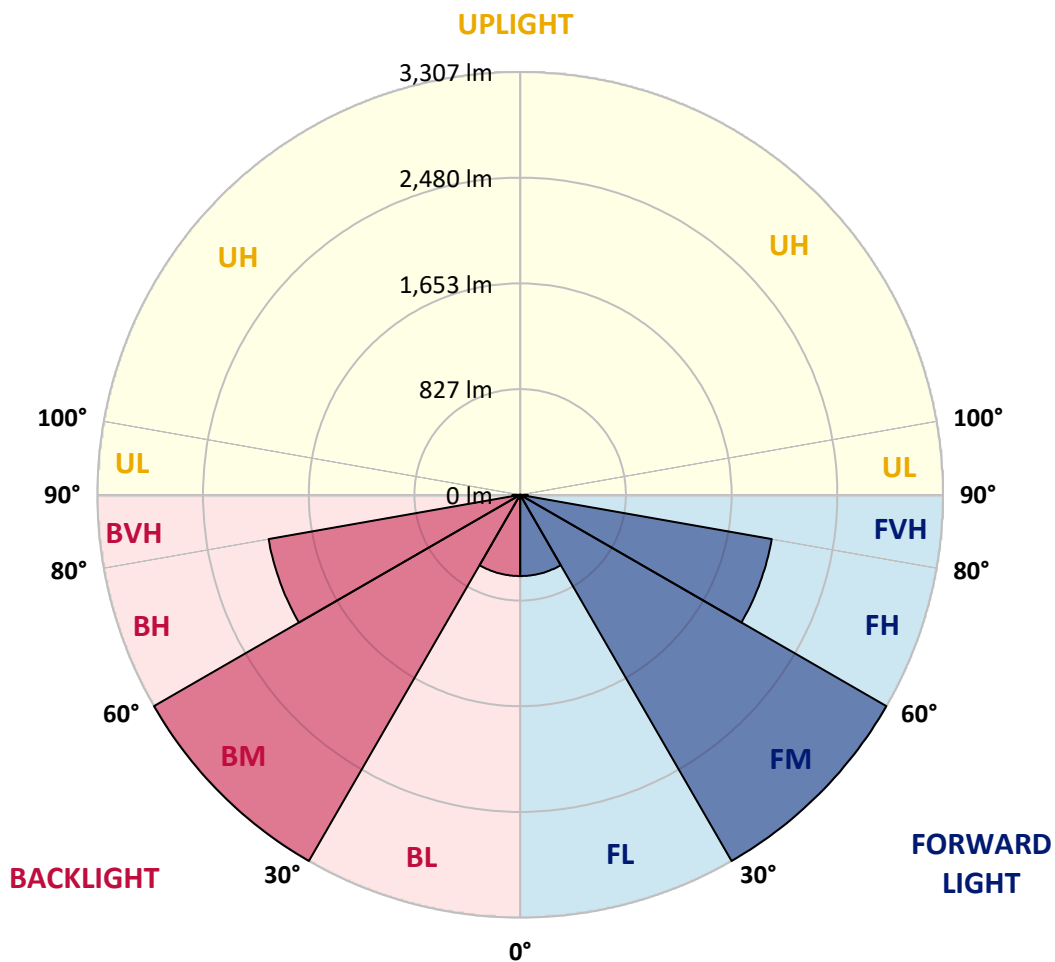
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	635.5	5.3			
FM (30°-60°)	3307.0	27.6			
FH (60°-80°)	1997.9	16.6			G2/5000
FVH (80°-90°)	59.8	0.5			G1/100
BL (0°-30°)	635.5	5.3	B2/1000		
BM (30°-60°)	3307.0	27.6	B3/5000		
BH (60°-80°)	1997.9	16.6	B3/2500		G3/2500
BVH (80°-90°)	59.8	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°	1331.1	1331.1	1331.1	1331.1	1331.1	1331.1	1331.1	1331.1	1331.1	1331.1	1331.1
2.5°	1328.8	1327.7	1328.8	1328.3	1329.4	1329.4	1330.5	1332.8	1332.8	1334.5	1333.9
5°	1315.8	1315.2	1316.9	1318.6	1320.3	1323.7	1327.1	1332.2	1336.2	1339.1	1341.9
7.5°	1290.3	1290.3	1292.5	1296.5	1300.5	1307.9	1315.8	1326.0	1336.2	1344.7	1352.1
10°	1269.3	1270.4	1273.3	1280.1	1286.9	1298.2	1309.0	1323.7	1337.9	1352.1	1363.4
12.5°	1256.8	1258.5	1263.6	1273.8	1285.2	1300.5	1316.9	1335.6	1351.5	1368.5	1379.9
15°	1260.8	1261.9	1269.3	1281.8	1296.5	1315.8	1337.9	1360.0	1378.8	1396.9	1412.2
17.5°	1282.9	1284.6	1293.1	1307.3	1322.6	1345.3	1369.1	1394.1	1417.3	1437.7	1456.5
20°	1322.6	1324.3	1335.1	1350.4	1368.5	1391.8	1415.6	1441.7	1467.8	1489.3	1510.3
22.5°	1378.8	1381.6	1391.8	1407.1	1427.5	1452.5	1480.8	1508.6	1533.6	1553.4	1572.2
25°	1452.5	1458.7	1468.4	1485.4	1506.9	1529.6	1560.2	1588.6	1612.4	1631.1	1644.7
27.5°	1556.8	1565.3	1572.7	1589.2	1610.2	1631.7	1662.3	1687.3	1710.0	1728.1	1738.3
30°	1695.2	1703.7	1711.1	1727.0	1746.3	1766.7	1795.6	1817.7	1831.9	1846.1	1845.5
32.5°	1863.1	1872.2	1875.0	1892.0	1911.9	1934.0	1960.1	1972.6	1983.9	1985.6	1975.4
35°	2050.8	2055.4	2066.7	2089.4	2112.1	2130.2	2155.2	2161.4	2161.4	2152.9	2130.2
37.5°	2256.7	2259.5	2275.4	2300.9	2324.2	2342.9	2359.9	2372.4	2366.2	2348.0	2310.0
40°	2482.4	2487.5	2510.2	2532.9	2559.0	2576.6	2594.7	2597.0	2590.8	2564.1	2512.5
42.5°	2698.0	2702.5	2725.2	2760.9	2794.9	2819.3	2836.3	2839.7	2819.9	2795.5	2731.4
45°	2883.4	2895.3	2924.8	2966.8	3016.1	3050.7	3074.0	3083.6	3066.0	3034.3	2960.0
47.5°	3030.3	3042.2	3084.2	3134.1	3195.3	3251.5	3290.1	3310.5	3305.9	3282.1	3201.0
50°	3138.1	3149.4	3194.8	3256.0	3327.5	3397.3	3463.0	3511.8	3528.8	3518.1	3443.8
52.5°	3150.5	3169.3	3222.6	3304.8	3397.8	3493.1	3586.7	3669.5	3725.6	3734.1	3679.1
55°	2976.4	2995.1	3068.9	3190.8	3329.2	3484.6	3634.3	3773.8	3884.4	3941.2	3912.2
57.5°	2565.8	2599.3	2677.0	2819.9	3023.5	3256.0	3494.8	3742.7	3967.8	4118.1	4147.0
60°	1966.3	2006.0	2084.3	2236.3	2463.2	2740.5	3059.2	3425.6	3823.2	4161.2	4363.1
62.5°	1261.4	1298.8	1381.0	1513.2	1698.1	1998.7	2340.6	2775.7	3309.9	3843.6	4324.6
65°	648.3	668.7	711.8	791.7	935.8	1160.4	1467.2	1901.1	2511.9	3170.4	3865.7
67.5°	410.6	414.6	424.2	435.6	472.4	550.1	693.1	963.6	1466.1	2152.9	2966.8
70°	355.0	355.0	350.5	348.8	353.3	364.1	386.2	449.2	618.8	1022.0	1711.1
72.5°	325.0	321.6	313.6	307.4	306.3	306.3	310.8	320.4	347.7	416.3	669.8
75°	299.5	289.8	279.0	271.7	268.8	266.0	265.4	267.1	272.8	283.6	319.9
77.5°	268.3	255.8	243.3	235.9	232.5	228.6	225.2	221.2	218.4	221.8	237.6
80°	230.8	216.7	207.0	202.5	199.1	193.4	186.0	179.2	173.0	171.8	181.5
82.5°	186.0	169.6	170.1	171.8	165.6	157.7	149.7	142.4	131.6	125.9	131.6
85°	150.3	141.8	137.8	148.6	139.5	127.6	115.1	102.1	85.1	71.5	77.7
87.5°	58.4	58.4	87.3	134.4	120.8	98.7	84.5	72.0	44.8	34.6	35.2
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°	1331.1	1331.1	1331.1	1331.1	1331.1	1331.1	1331.1	1331.1
2.5°	1333.4	1334.5	1333.9	1333.4	1333.4	1332.8	1333.4	1333.4
5°	1343.6	1346.4	1346.4	1347.6	1347.6	1348.1	1348.7	1348.1
7.5°	1358.9	1364.0	1367.4	1371.4	1371.9	1372.5	1373.6	1372.5
10°	1374.2	1384.4	1391.8	1399.2	1402.6	1403.7	1404.8	1404.8
12.5°	1393.5	1407.7	1420.7	1433.8	1440.0	1443.4	1443.4	1445.7
15°	1425.3	1439.4	1454.8	1472.3	1483.1	1488.8	1490.5	1490.5
17.5°	1470.1	1482.5	1495.6	1512.6	1526.2	1533.6	1535.3	1534.7
20°	1522.2	1534.2	1541.5	1552.3	1564.2	1572.7	1575.0	1575.0
22.5°	1581.8	1588.6	1589.7	1593.1	1602.8	1614.1	1619.2	1620.4
25°	1647.6	1649.3	1644.7	1644.7	1651.0	1661.8	1666.9	1667.4
27.5°	1732.7	1724.2	1712.8	1708.8	1712.8	1725.3	1731.5	1733.8
30°	1838.7	1818.3	1792.2	1778.0	1775.8	1792.2	1803.6	1805.3
32.5°	1960.1	1930.6	1896.0	1867.1	1859.7	1869.9	1883.5	1883.0
35°	2104.1	2069.0	2027.0	1990.1	1973.1	1983.3	2002.6	2004.9
37.5°	2270.3	2224.4	2176.2	2129.7	2103.0	2105.8	2126.3	2133.1
40°	2455.8	2396.2	2335.5	2273.2	2235.2	2227.8	2252.7	2256.7
42.5°	2654.3	2577.7	2501.2	2424.0	2375.2	2363.9	2392.8	2391.1
45°	2865.8	2768.3	2678.7	2593.6	2535.7	2518.7	2542.6	2542.6
47.5°	3093.3	2973.0	2866.4	2770.0	2707.0	2682.6	2705.3	2707.0
50°	3334.3	3206.7	3081.4	2974.2	2898.7	2867.5	2897.0	2901.6
52.5°	3574.2	3450.0	3323.5	3201.0	3109.7	3071.7	3105.7	3120.5
55°	3817.5	3695.6	3574.8	3455.1	3346.8	3302.0	3338.3	3357.0
57.5°	4074.4	3961.6	3846.4	3725.6	3621.3	3551.5	3590.1	3615.0
60°	4375.6	4279.2	4159.5	4026.2	3920.7	3849.8	3872.0	3894.1
62.5°	4613.8	4651.2	4549.7	4395.4	4259.9	4169.2	4190.7	4214.0
65°	4498.7	4882.6	4972.8	4816.8	4629.1	4487.9	4478.8	4490.7
67.5°	3760.2	4506.0	5049.9	5198.5	5041.4	4845.2	4808.9	4826.5
70°	2515.3	3444.3	4404.0	5118.6	5308.6	5232.6	5196.8	5207.6
72.5°	1208.0	2006.0	2987.8	3937.8	4516.3	4781.7	4866.8	4908.2
75°	441.8	796.3	1440.0	2169.9	2619.7	3032.6	3302.0	3412.0
77.5°	266.6	321.6	460.0	692.5	784.4	878.0	841.7	859.8
80°	197.4	222.9	252.4	283.6	293.8	293.8	282.4	273.4
82.5°	138.4	154.8	169.0	186.0	190.6	182.1	149.7	119.1
85°	89.0	96.4	102.7	113.4	110.6	105.5	70.9	63.0
87.5°	40.8	46.5	48.8	53.9	51.6	49.3	35.2	29.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)