

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: P300668

Luminaire Tested: **GLNA-AF-03-LED-E1-RW-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300668
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-03-LED-E1-RW-7030-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Rectangular
Wide Type I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11796.2 lumens
Efficiency: N/A
Efficacy: 122.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G3

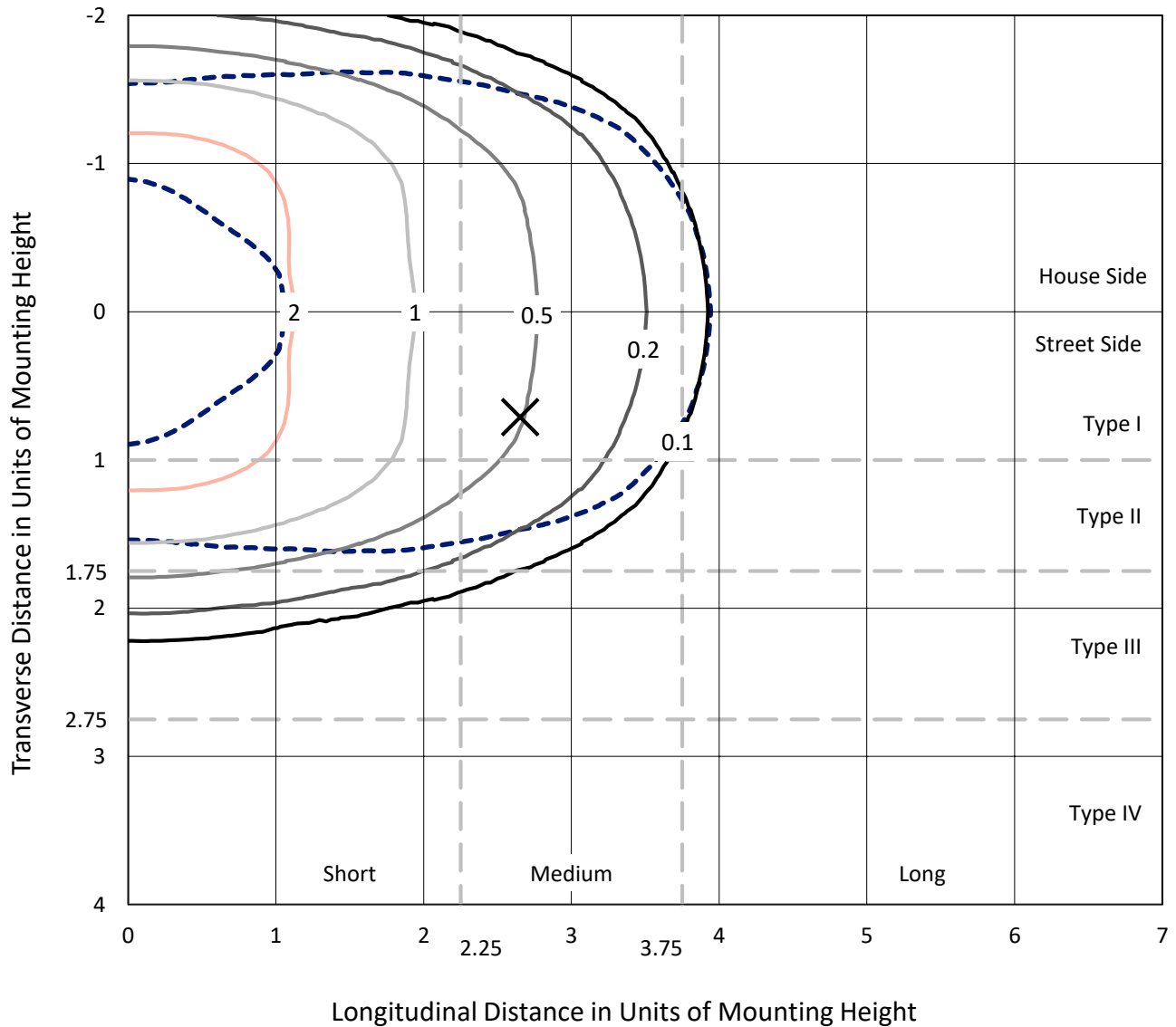
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

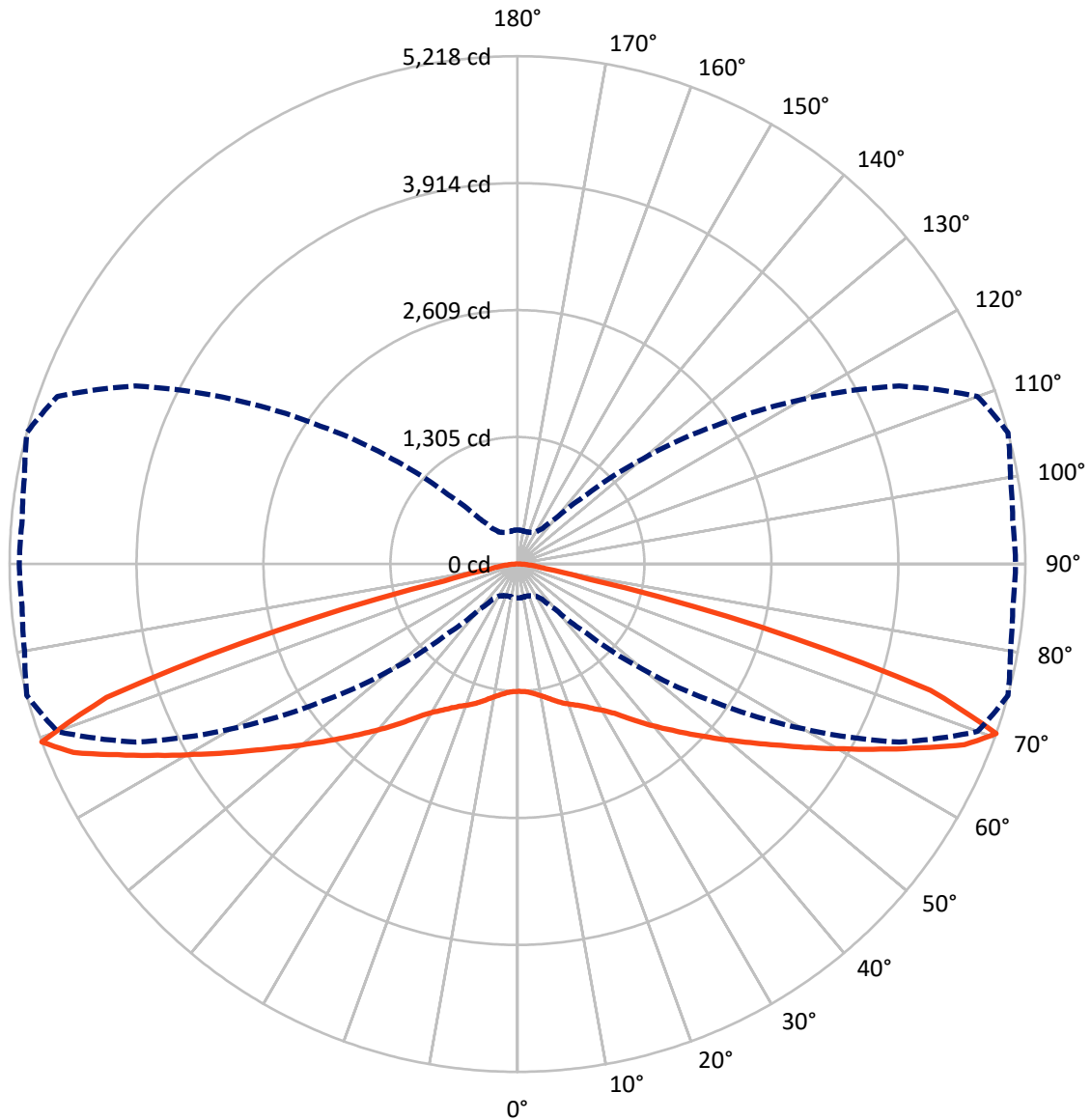
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.3 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	5898.1	0.0	5898.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5898.1	0.0	5898.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	11796.2	0.0	11796.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.5	1.1
10°-20°	389.9	3.3
20°-30°	733.9	6.2
30°-40°	1299.6	11.0
40°-50°	2173.3	18.4
50°-60°	3028.5	25.7
60°-70°	2808.5	23.8
70°-80°	1119.3	9.5
80°-90°	117.6	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°	11796.2	100.0
0°-180°	11796.2	100.0



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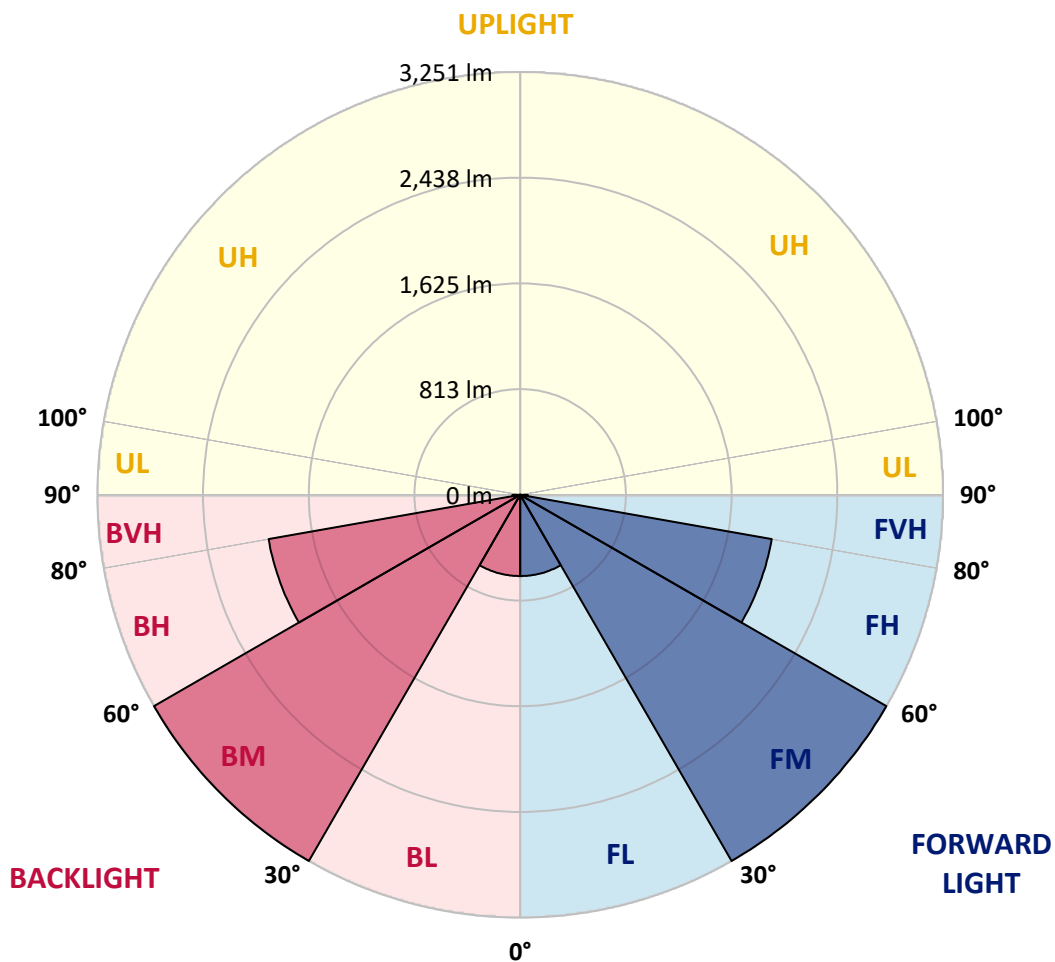
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	624.7	5.3			
FM	(30°-60°)	3250.7	27.6			
FH	(60°-80°)	1963.9	16.6			G2/5000
FVH	(80°-90°)	58.8	0.5			G1/100
BL	(0°-30°)	624.7	5.3	B2/1000		
BM	(30°-60°)	3250.7	27.6	B3/5000		
BH	(60°-80°)	1963.9	16.6	B3/2500		G3/2500
BVH	(80°-90°)	58.8	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°	1308.5	1308.5	1308.5	1308.5	1308.5	1308.5	1308.5	1308.5	1308.5	1308.5	1308.5
2.5°	1306.2	1305.1	1306.2	1305.7	1306.8	1306.8	1307.9	1310.1	1310.1	1311.8	1311.3
5°	1293.4	1292.9	1294.5	1296.2	1297.9	1301.2	1304.6	1309.6	1313.5	1316.3	1319.1
7.5°	1268.3	1268.3	1270.6	1274.5	1278.4	1285.6	1293.4	1303.5	1313.5	1321.9	1329.1
10°	1247.7	1248.8	1251.6	1258.3	1265.0	1276.1	1286.7	1301.2	1315.2	1329.1	1340.3
12.5°	1235.4	1237.1	1242.1	1252.2	1263.3	1278.4	1294.5	1312.9	1328.5	1345.3	1356.4
15°	1239.3	1240.5	1247.7	1260.0	1274.5	1293.4	1315.2	1336.9	1355.3	1373.1	1388.2
17.5°	1261.1	1262.8	1271.1	1285.1	1300.1	1322.4	1345.8	1370.4	1393.2	1413.3	1431.7
20°	1300.1	1301.8	1312.4	1327.4	1345.3	1368.1	1391.5	1417.2	1442.8	1464.0	1484.6
22.5°	1355.3	1358.1	1368.1	1383.2	1403.2	1427.8	1455.7	1483.0	1507.5	1527.0	1545.4
25°	1427.8	1433.9	1443.4	1460.1	1481.3	1503.6	1533.7	1561.6	1585.0	1603.4	1616.8
27.5°	1530.4	1538.7	1546.0	1562.1	1582.8	1604.0	1634.1	1658.6	1680.9	1698.7	1708.8
30°	1666.4	1674.8	1682.0	1697.6	1716.6	1736.6	1765.1	1786.8	1800.8	1814.7	1814.1
32.5°	1831.4	1840.3	1843.1	1859.8	1879.4	1901.1	1926.7	1939.0	1950.2	1951.8	1941.8
35°	2016.0	2020.4	2031.6	2053.9	2076.2	2094.0	2118.5	2124.7	2124.7	2116.3	2094.0
37.5°	2218.3	2221.1	2236.7	2261.8	2284.7	2303.1	2319.8	2332.1	2325.9	2308.1	2270.7
40°	2440.2	2445.2	2467.5	2489.8	2515.5	2532.8	2550.6	2552.8	2546.7	2520.5	2469.8
42.5°	2652.1	2656.5	2678.8	2714.0	2747.4	2771.4	2788.1	2791.4	2771.9	2748.0	2685.0
45°	2834.4	2846.1	2875.1	2916.3	2964.8	2998.8	3021.7	3031.2	3013.9	2982.7	2909.6
47.5°	2978.8	2990.5	3031.7	3080.8	3141.0	3196.2	3234.1	3254.2	3249.7	3226.3	3146.6
50°	3084.7	3095.8	3140.4	3200.7	3270.9	3339.5	3404.1	3452.1	3468.8	3458.2	3385.2
52.5°	3097.0	3115.4	3167.8	3248.6	3340.0	3433.7	3525.7	3607.1	3662.3	3670.6	3616.6
55°	2925.8	2944.2	3016.7	3136.5	3272.6	3425.3	3572.5	3709.7	3818.4	3874.1	3845.7
57.5°	2522.2	2555.1	2631.4	2771.9	2972.1	3200.7	3435.4	3679.0	3900.3	4048.1	4076.5
60°	1932.9	1971.9	2048.8	2198.3	2421.3	2693.9	3007.2	3367.4	3758.2	4090.4	4288.9
62.5°	1239.9	1276.7	1357.5	1487.4	1669.2	1964.7	2300.8	2728.4	3253.6	3778.2	4251.0
65°	637.2	657.3	699.7	778.3	919.9	1140.7	1442.3	1868.8	2469.2	3116.5	3800.0
67.5°	403.6	407.5	417.0	428.2	464.4	540.8	681.3	947.2	1441.2	2116.3	2916.3
70°	349.0	349.0	344.5	342.9	347.3	357.9	379.7	441.5	608.2	1004.6	1682.0
72.5°	319.5	316.1	308.3	302.2	301.1	301.1	305.5	315.0	341.8	409.2	658.4
75°	294.4	284.9	274.3	267.0	264.3	261.5	260.9	262.6	268.2	278.8	314.4
77.5°	263.7	251.4	239.2	231.9	228.6	224.7	221.3	217.4	214.6	218.0	233.6
80°	226.9	213.0	203.5	199.0	195.7	190.1	182.9	176.2	170.0	168.9	178.4
82.5°	182.9	166.7	167.3	168.9	162.8	155.0	147.2	139.9	129.3	123.8	129.3
85°	147.7	139.4	135.5	146.1	137.1	125.4	113.2	100.4	83.6	70.2	76.4
87.5°	57.4	57.4	85.9	132.1	118.7	97.0	83.1	70.8	44.0	34.0	34.6
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°	1308.5	1308.5	1308.5	1308.5	1308.5	1308.5	1308.5	1308.5
2.5°	1310.7	1311.8	1311.3	1310.7	1310.7	1310.1	1310.7	1310.7
5°	1320.7	1323.5	1323.5	1324.6	1324.6	1325.2	1325.8	1325.2
7.5°	1335.8	1340.8	1344.2	1348.1	1348.6	1349.2	1350.3	1349.2
10°	1350.8	1360.9	1368.1	1375.4	1378.7	1379.8	1380.9	1380.9
12.5°	1369.8	1383.7	1396.6	1409.4	1415.5	1418.9	1418.9	1421.1
15°	1401.0	1415.0	1430.0	1447.3	1457.9	1463.5	1465.1	1465.1
17.5°	1445.1	1457.3	1470.1	1486.9	1500.3	1507.5	1509.2	1508.6
20°	1496.4	1508.1	1515.3	1525.9	1537.6	1546.0	1548.2	1548.2
22.5°	1554.9	1561.6	1562.7	1566.0	1575.5	1586.7	1591.7	1592.8
25°	1619.6	1621.2	1616.8	1616.8	1622.9	1633.5	1638.5	1639.1
27.5°	1703.2	1694.8	1683.7	1679.8	1683.7	1695.9	1702.1	1704.3
30°	1807.4	1787.4	1761.7	1747.8	1745.6	1761.7	1772.9	1774.5
32.5°	1926.7	1897.8	1863.8	1835.3	1828.1	1838.1	1851.5	1850.9
35°	2068.4	2033.8	1992.5	1956.3	1939.6	1949.6	1968.6	1970.8
37.5°	2231.7	2186.5	2139.2	2093.4	2067.2	2070.0	2090.1	2096.8
40°	2414.0	2355.5	2295.8	2234.5	2197.1	2189.9	2214.4	2218.3
42.5°	2609.1	2533.9	2458.6	2382.8	2334.8	2323.7	2352.1	2350.5
45°	2817.1	2721.2	2633.1	2549.5	2492.6	2475.9	2499.3	2499.3
47.5°	3040.7	2922.5	2817.6	2722.9	2661.0	2637.0	2659.3	2661.0
50°	3277.6	3152.2	3028.9	2923.6	2849.4	2818.8	2847.8	2852.2
52.5°	3513.4	3391.3	3267.0	3146.6	3056.8	3019.5	3052.9	3067.4
55°	3752.6	3632.7	3514.0	3396.3	3289.9	3245.8	3281.5	3299.9
57.5°	4005.1	3894.2	3781.0	3662.3	3559.7	3491.1	3529.0	3553.6
60°	4301.2	4206.4	4088.8	3957.8	3854.1	3784.4	3806.1	3827.9
62.5°	4535.3	4572.1	4472.3	4320.7	4187.4	4098.2	4119.4	4142.3
65°	4422.2	4799.6	4888.2	4734.9	4550.4	4411.6	4402.6	4414.4
67.5°	3696.3	4429.4	4964.1	5110.1	4955.7	4762.8	4727.1	4744.4
70°	2472.5	3385.7	4329.1	5031.5	5218.3	5143.6	5108.4	5119.0
72.5°	1187.5	1971.9	2937.0	3870.8	4439.4	4700.4	4784.0	4824.7
75°	434.3	782.7	1415.5	2133.0	2575.1	2981.0	3245.8	3354.0
77.5°	262.0	316.1	452.1	680.7	771.0	863.0	827.3	845.2
80°	194.0	219.1	248.1	278.8	288.8	288.8	277.6	268.7
82.5°	136.0	152.2	166.1	182.9	187.3	179.0	147.2	117.1
85°	87.5	94.8	100.9	111.5	108.7	103.7	69.7	61.9
87.5°	40.1	45.7	47.9	53.0	50.7	48.5	34.6	29.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)