

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: P298932

Luminaire Tested: **GLNA-AF-03-LED-E1-T2-7060-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298932
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
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-T2-7060-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5700K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14357.4 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 124
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

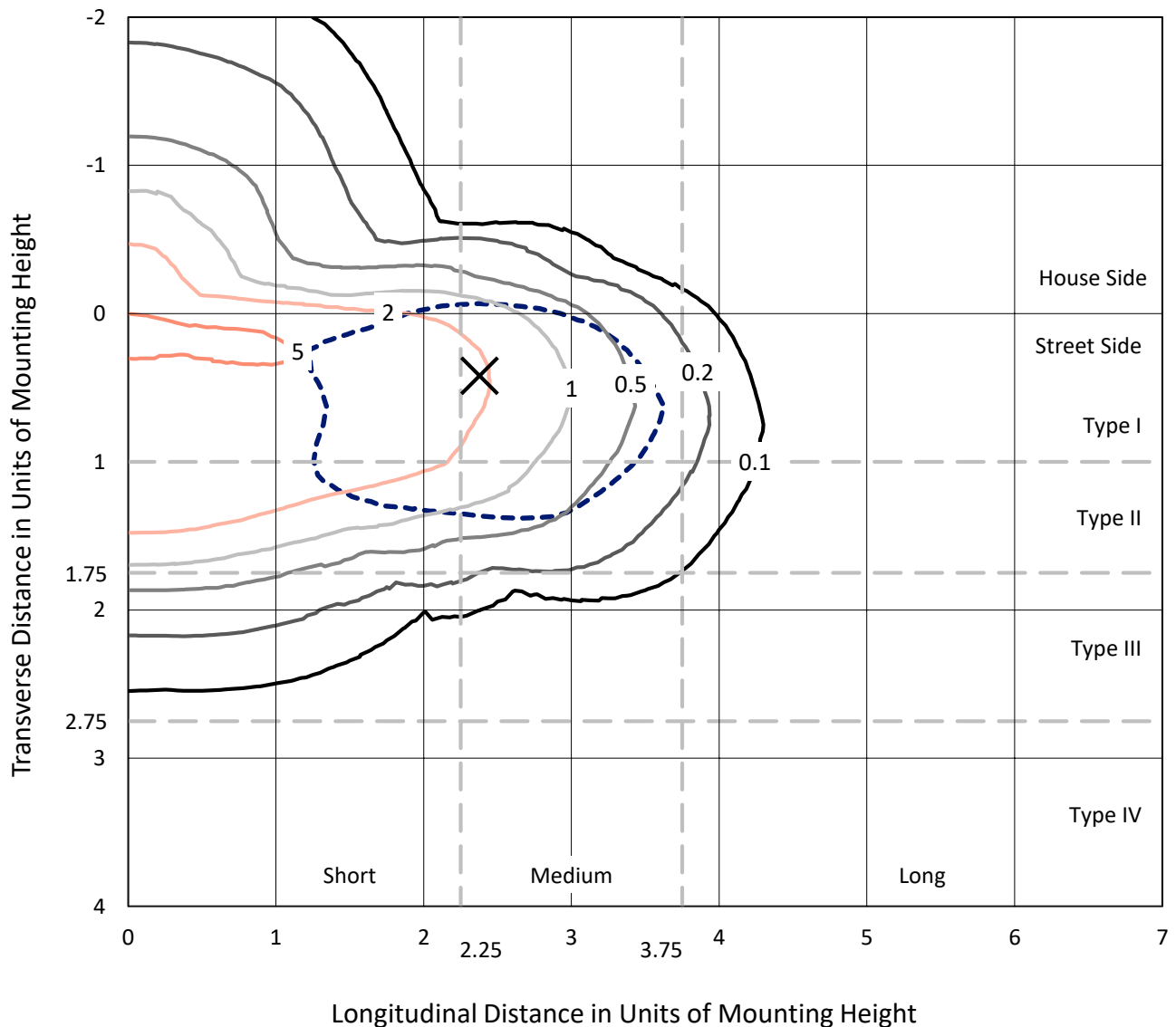


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

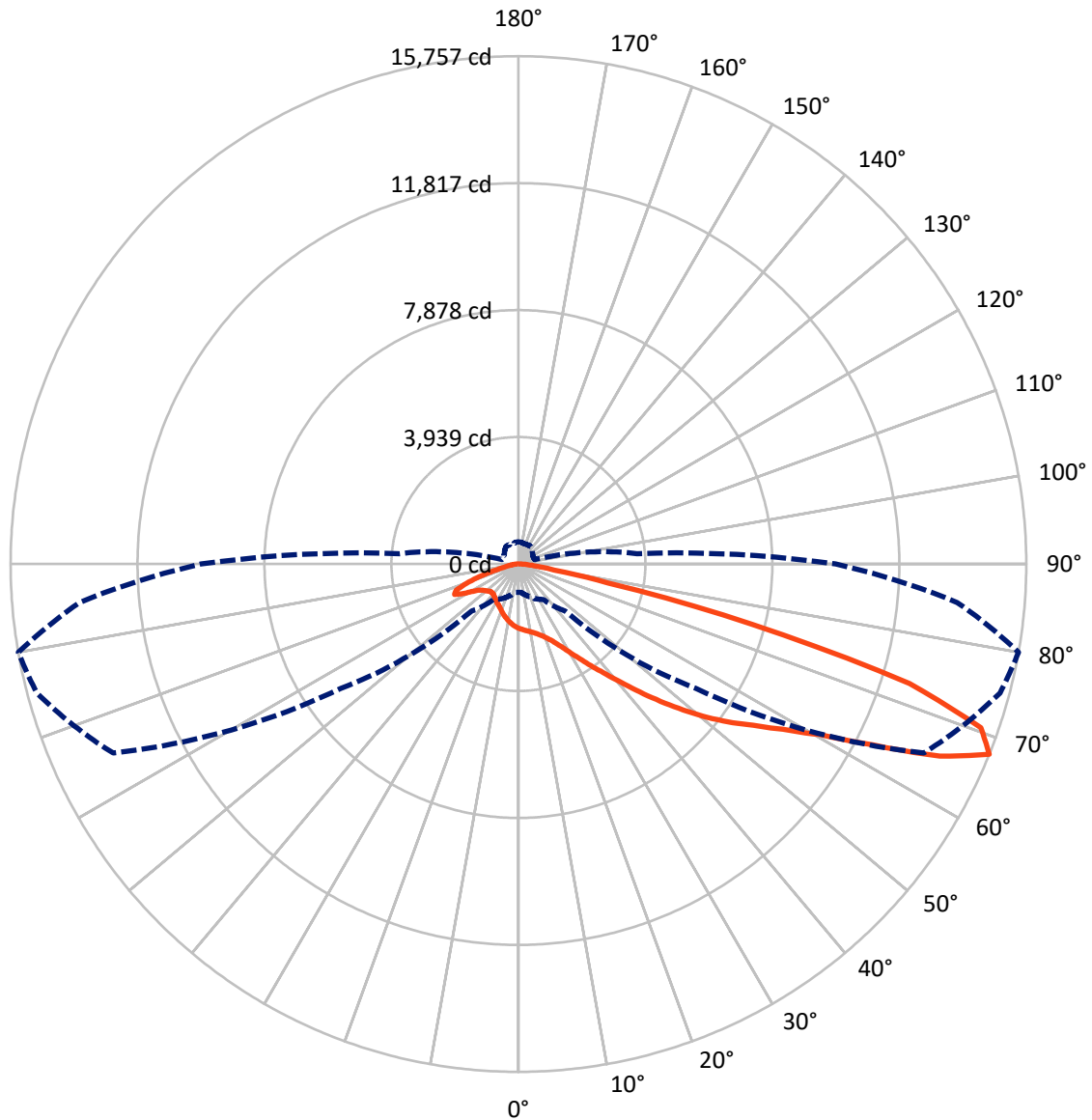


Based on 20 foot mounting height. Maximum calculated value = 6.1 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2644.1	0.0	2644.1
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	11713.3	0.0	11713.3
	% Fixture	81.6	0.0	81.6
Total	Lumens	14357.4	0.0	14357.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.0	1.3
10°-20°	530.0	3.7
20°-30°	877.3	6.1
30°-40°	1435.1	10.0
40°-50°	2317.1	16.1
50°-60°	3345.2	23.3
60°-70°	3691.7	25.7
70°-80°	1701.6	11.9
80°-90°	275.2	1.9
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°	14357.4	100.0
0°-180°	14357.4	100.0

Coefficient of Utilization



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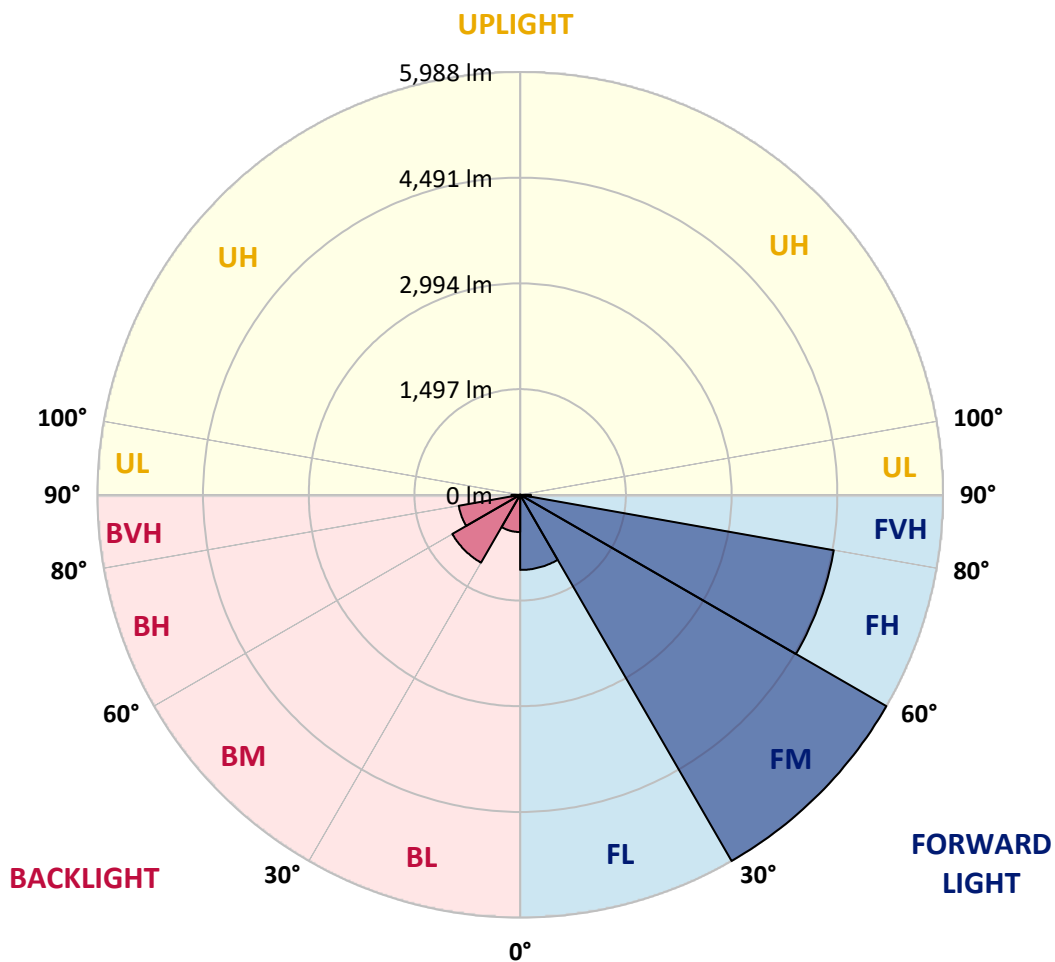
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1063.9	7.4			
FM (30°-60°)	5988.1	41.7			
FH (60°-80°)	4510.0	31.4			G2/5000
FVH (80°-90°)	151.3	1.1			G2/225
BL (0°-30°)	527.5	3.7	B2/1000		
BM (30°-60°)	1109.4	7.7	B2/2500		
BH (60°-80°)	883.3	6.2	B2/1000		G2/1000
BVH (80°-90°)	123.9	0.9			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	1994.7	1994.7	1994.7	1994.7	1994.7	1994.7	1994.7	1994.7	1994.7	1994.7	1994.7
2.5°	2182.0	2169.2	2171.4	2167.8	2157.2	2138.9	2119.1	2083.0	2045.6	2025.8	2010.2
5°	2364.3	2360.8	2355.8	2344.5	2317.7	2279.5	2232.2	2168.5	2100.0	2063.9	2029.3
7.5°	2500.7	2498.6	2492.3	2485.2	2459.0	2413.1	2341.7	2251.2	2151.6	2102.1	2048.4
10°	2512.1	2515.6	2520.5	2539.6	2543.2	2518.4	2445.6	2336.1	2205.3	2141.7	2073.1
12.5°	2415.9	2423.7	2442.8	2491.6	2543.2	2573.6	2536.1	2425.1	2268.2	2191.2	2104.2
15°	2288.7	2292.9	2316.3	2383.4	2476.0	2570.0	2605.4	2523.4	2349.5	2254.8	2150.9
17.5°	2234.3	2236.4	2252.7	2297.2	2383.4	2517.7	2644.2	2630.1	2449.2	2333.9	2208.1
20°	2206.7	2211.7	2235.0	2278.8	2333.2	2450.6	2649.9	2745.3	2567.9	2432.9	2280.2
22.5°	2285.2	2283.0	2291.5	2313.4	2359.4	2430.1	2645.6	2864.1	2719.2	2560.1	2374.2
25°	2468.2	2476.0	2461.2	2436.4	2451.3	2500.7	2668.3	2992.7	2908.6	2723.4	2497.2
27.5°	2729.1	2721.3	2699.4	2641.4	2611.0	2632.2	2743.2	3131.2	3144.0	2938.3	2659.8
30°	2989.2	2982.8	2961.6	2890.9	2828.7	2811.0	2888.8	3290.3	3424.6	3196.3	2859.1
32.5°	3259.2	3252.1	3232.3	3161.6	3086.7	3045.7	3095.9	3474.0	3755.4	3504.4	3093.8
35°	3592.1	3578.7	3537.0	3438.7	3365.2	3333.4	3356.7	3705.2	4137.1	3869.2	3378.6
37.5°	3905.2	3925.7	3883.3	3747.6	3652.2	3640.9	3667.0	3987.2	4548.4	4277.0	3705.9
40°	4219.7	4223.3	4185.1	4074.1	3975.9	3957.5	4023.3	4329.3	5034.0	4764.7	4103.8
42.5°	4544.9	4552.0	4487.6	4385.1	4313.0	4316.6	4391.5	4730.1	5591.0	5339.4	4561.9
45°	4930.1	4940.7	4870.0	4735.7	4670.0	4802.2	4771.1	5179.6	6201.7	5992.5	5087.7
47.5°	5333.0	5349.3	5295.5	5169.7	5087.7	5269.4	5150.6	5677.9	6859.0	6692.9	5665.2
50°	5552.8	5576.1	5628.5	5619.3	5601.6	5571.2	5574.0	6212.3	7536.9	7422.4	6258.9
52.5°	5434.8	5434.1	5624.9	5856.8	6104.1	6122.5	6090.0	6775.6	8170.2	8135.6	6818.0
55°	4894.8	4931.5	5220.6	5669.4	6345.2	6767.1	6863.3	7421.0	8792.2	8832.5	7385.6
57.5°	3995.7	4026.1	4416.2	5041.8	6020.0	7150.2	7963.1	8358.9	9487.7	9675.7	8141.2
60°	2710.0	2746.7	3160.2	3911.6	5145.0	6936.8	9009.9	10032.7	10320.4	10748.0	9201.5
62.5°	1592.5	1625.7	1962.9	2467.5	3622.5	5945.1	9469.3	12414.0	11642.8	12365.9	10818.7
65°	1096.3	1118.9	1282.9	1535.9	2081.6	4004.2	8899.6	14058.1	13677.8	14370.5	12693.9
67.5°	882.1	879.3	1009.3	1181.8	1340.1	2064.6	6729.7	13872.2	15467.5	15756.6	13667.2
70°	726.6	723.8	812.1	954.9	1070.8	1162.7	3665.6	11706.4	15102.7	15220.1	12770.9
72.5°	607.9	610.7	667.2	773.3	878.6	875.8	1610.9	8235.2	11881.0	12692.5	10180.4
75°	513.2	514.6	552.0	627.0	713.2	705.4	873.6	4461.5	6906.4	7471.1	5643.3
77.5°	436.8	438.2	462.3	504.0	565.5	562.6	637.6	1927.5	2881.0	2845.7	1930.3
80°	389.5	389.5	400.8	408.5	442.5	429.7	472.9	925.9	1217.9	1124.6	770.4
82.5°	305.3	306.8	376.0	373.2	348.5	332.2	332.2	545.7	645.3	596.6	451.0
85°	171.8	171.1	242.4	292.6	306.8	234.0	231.8	305.3	351.3	309.6	218.4
87.5°	73.5	74.9	112.4	130.1	173.9	145.6	143.5	157.6	178.8	154.8	101.1
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°	1994.7	1994.7	1994.7	1994.7	1994.7	1994.7	1994.7	1994.7	1994.7	1994.7	1994.7
2.5°	1995.4	1977.0	1936.7	1886.5	1841.3	1811.6	1784.7	1745.9	1748.0	1721.1	1701.3
5°	1994.0	1955.8	1862.5	1751.5	1644.8	1567.7	1509.8	1457.5	1444.8	1420.0	1405.2
7.5°	1995.4	1933.2	1776.3	1598.8	1466.7	1369.1	1319.6	1292.1	1285.7	1277.2	1277.9
10°	2000.3	1912.7	1681.5	1456.1	1317.5	1253.2	1241.2	1249.7	1259.6	1262.4	1263.1
12.5°	2011.6	1894.3	1577.6	1328.8	1224.2	1204.4	1224.9	1253.9	1273.0	1282.2	1281.5
15°	2037.1	1880.2	1478.0	1229.2	1172.6	1183.2	1221.4	1262.4	1290.0	1302.7	1303.4
17.5°	2064.6	1859.7	1375.5	1152.8	1134.5	1161.3	1208.7	1256.7	1290.7	1304.8	1307.6
20°	2100.7	1834.2	1268.0	1095.6	1098.4	1128.8	1173.3	1221.4	1258.9	1270.9	1276.5
22.5°	2148.0	1806.6	1174.0	1048.9	1057.4	1080.7	1115.4	1157.1	1189.6	1195.2	1200.2
25°	2211.7	1777.0	1099.1	1006.5	1010.1	1023.5	1046.8	1071.5	1094.2	1087.8	1092.8
27.5°	2297.2	1751.5	1043.3	967.6	961.3	964.1	976.1	983.9	995.9	978.2	980.4
30°	2397.6	1723.9	1000.2	933.7	916.0	911.1	913.9	918.2	927.4	903.3	899.8
32.5°	2514.2	1690.7	959.9	904.0	879.3	869.4	870.8	882.1	917.5	902.6	894.8
35°	2649.9	1653.3	917.5	871.5	854.6	840.4	839.0	874.3	979.7	970.5	963.4
37.5°	2808.9	1615.8	875.1	834.8	836.2	820.6	815.7	856.0	991.7	955.6	950.7
40°	3011.1	1596.0	839.0	795.9	813.6	811.4	801.5	822.0	912.5	846.8	838.3
42.5°	3261.3	1598.8	812.1	754.2	786.7	809.3	793.8	794.5	827.0	777.5	769.7
45°	3570.2	1632.1	793.1	721.0	756.3	807.2	790.9	779.6	782.5	756.3	752.1
47.5°	3930.7	1700.6	779.6	693.4	727.3	799.4	790.2	775.4	769.0	754.9	751.4
50°	4331.4	1800.3	769.7	667.2	701.2	786.7	790.9	771.1	764.1	758.4	756.3
52.5°	4725.1	1914.1	754.9	644.6	680.7	771.1	793.1	766.9	759.1	754.9	752.8
55°	5164.1	2056.2	732.3	625.5	663.7	751.4	793.1	760.5	752.1	752.8	752.1
57.5°	5757.1	2285.9	705.4	609.3	643.2	727.3	779.6	753.5	742.9	743.6	744.3
60°	6683.7	2690.9	672.9	593.0	617.8	699.1	761.3	737.9	727.3	730.2	730.9
62.5°	8046.5	3285.3	630.5	569.0	590.9	668.7	735.8	718.1	707.5	714.6	714.6
65°	9463.0	3809.8	578.2	538.6	562.6	635.4	704.0	693.4	682.8	699.1	698.3
67.5°	9844.0	3692.5	525.9	505.4	534.4	598.7	665.8	660.2	654.5	682.8	681.4
70°	8744.8	2964.4	477.8	471.5	503.3	559.1	624.8	624.8	621.3	642.5	637.6
72.5°	6662.5	2102.1	431.9	435.4	467.9	516.0	580.3	585.3	579.6	590.2	586.0
75°	3566.6	1203.0	385.9	395.8	424.1	472.2	530.8	535.8	532.2	531.5	533.7
77.5°	1185.3	588.1	337.9	353.4	378.2	426.9	479.2	487.0	478.5	477.1	476.4
80°	528.0	369.7	284.9	305.3	327.3	375.3	424.8	431.2	422.0	434.7	418.4
82.5°	339.3	243.1	228.3	250.9	272.1	323.7	370.4	371.8	363.3	422.0	359.8
85°	164.7	150.6	171.8	192.3	210.6	254.5	306.8	307.5	286.3	260.8	251.6
87.5°	82.0	87.6	114.5	132.9	142.1	174.6	223.4	219.1	209.9	190.8	176.0
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)