

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: P193911

Luminaire Tested: **GLEON-AF-03-LED-E1-T2-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193911
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: GLEON-AF-03-LED-E1-T2-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14552 lumens
Efficiency: N/A
Efficacy: 87.7 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): 166
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

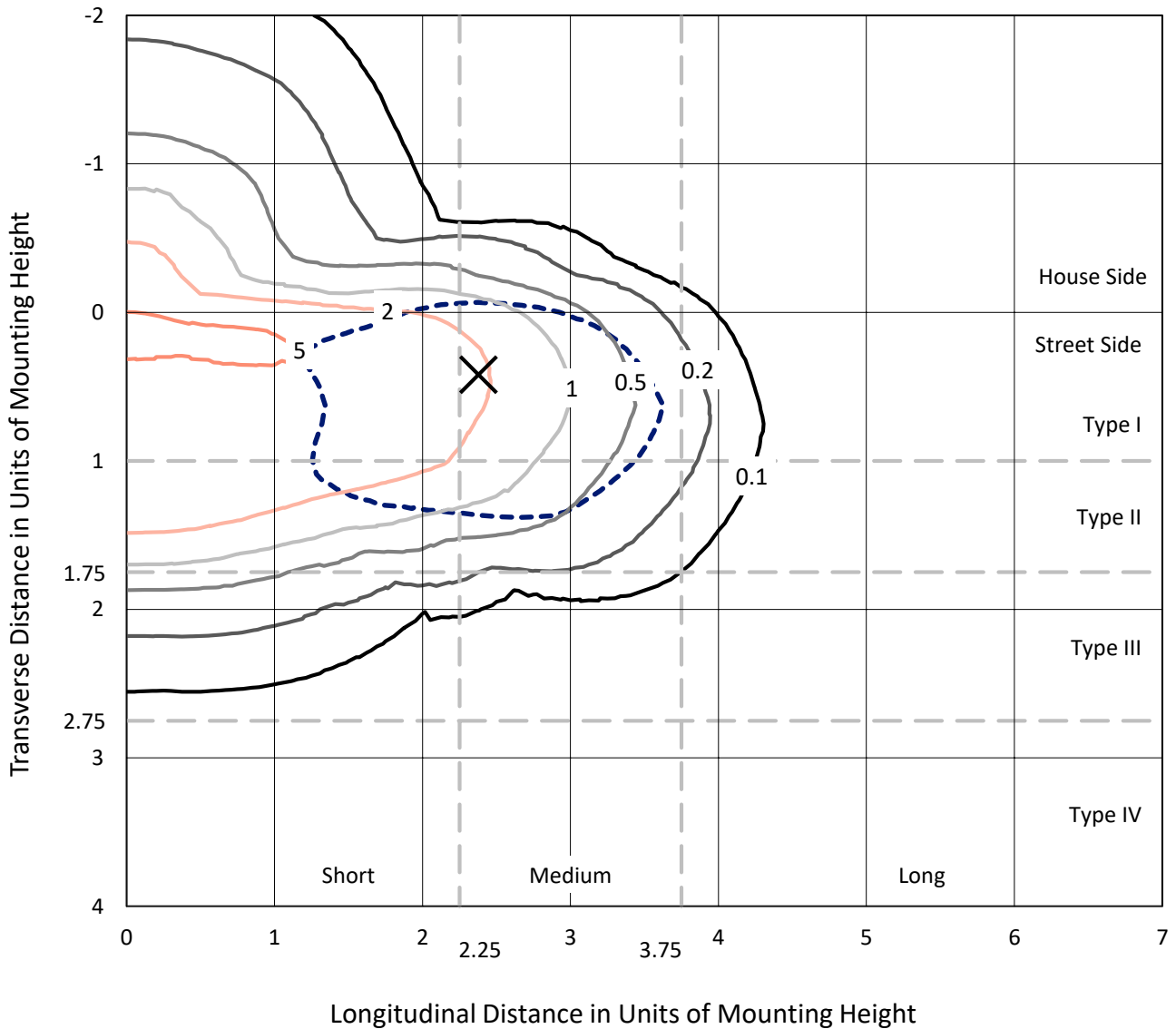


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

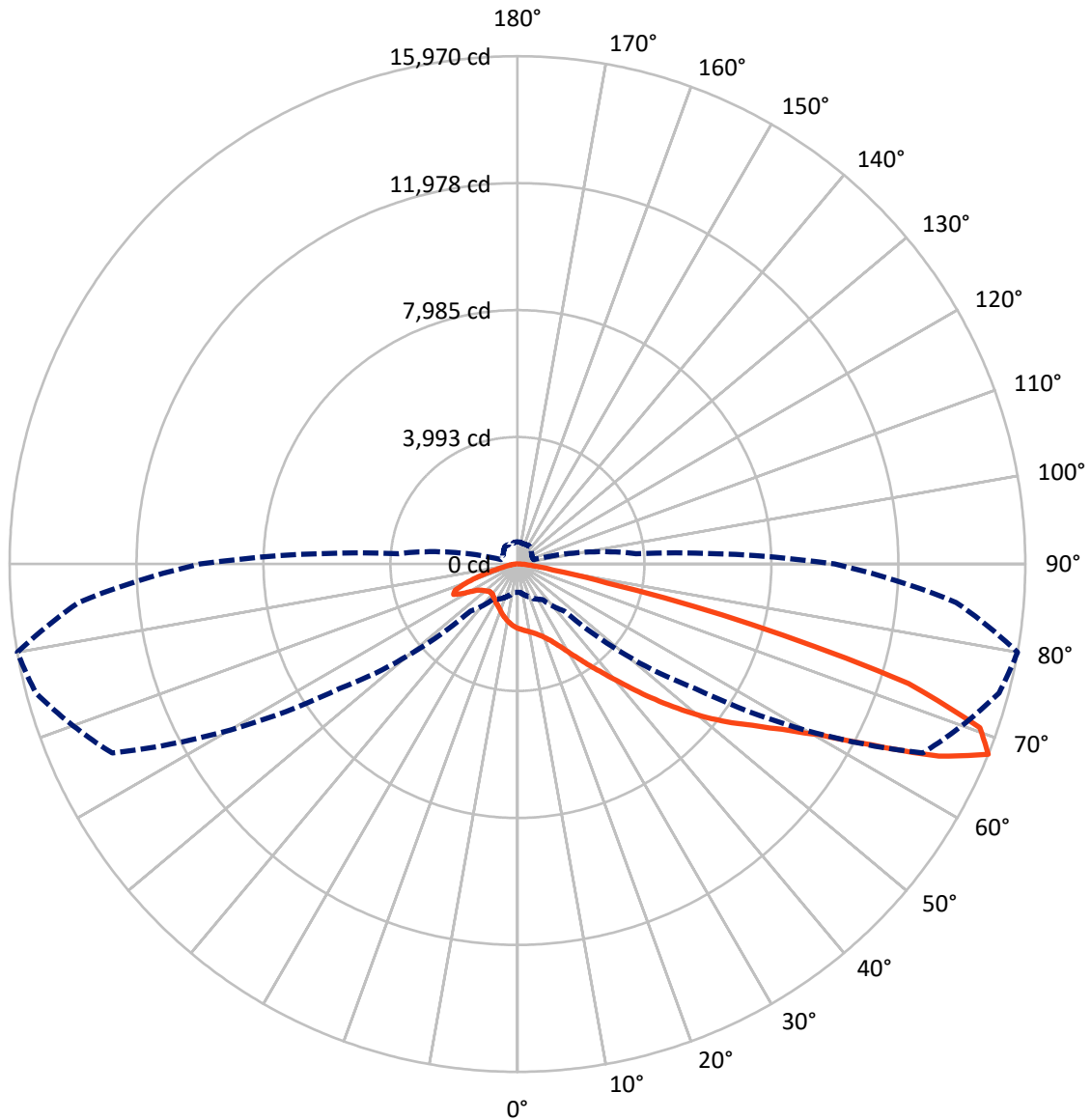


Based on 20 foot mounting height. Maximum calculated value = 6.1 fc
 Type II - Medium - Full Cutoff

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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	2679.9	0.0	2679.9
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	11872.1	0.0	11872.1
	% Fixture	81.6	0.0	81.6
Total	Lumens	14552.0	0.0	14552.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.5	1.3
10°-20°	537.2	3.7
20°-30°	889.2	6.1
30°-40°	1454.6	10.0
40°-50°	2348.5	16.1
50°-60°	3390.6	23.3
60°-70°	3741.7	25.7
70°-80°	1724.7	11.9
80°-90°	279.0	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°	14552.0	100.0
0°-180°	14552.0	100.0

Coefficient of Utilization



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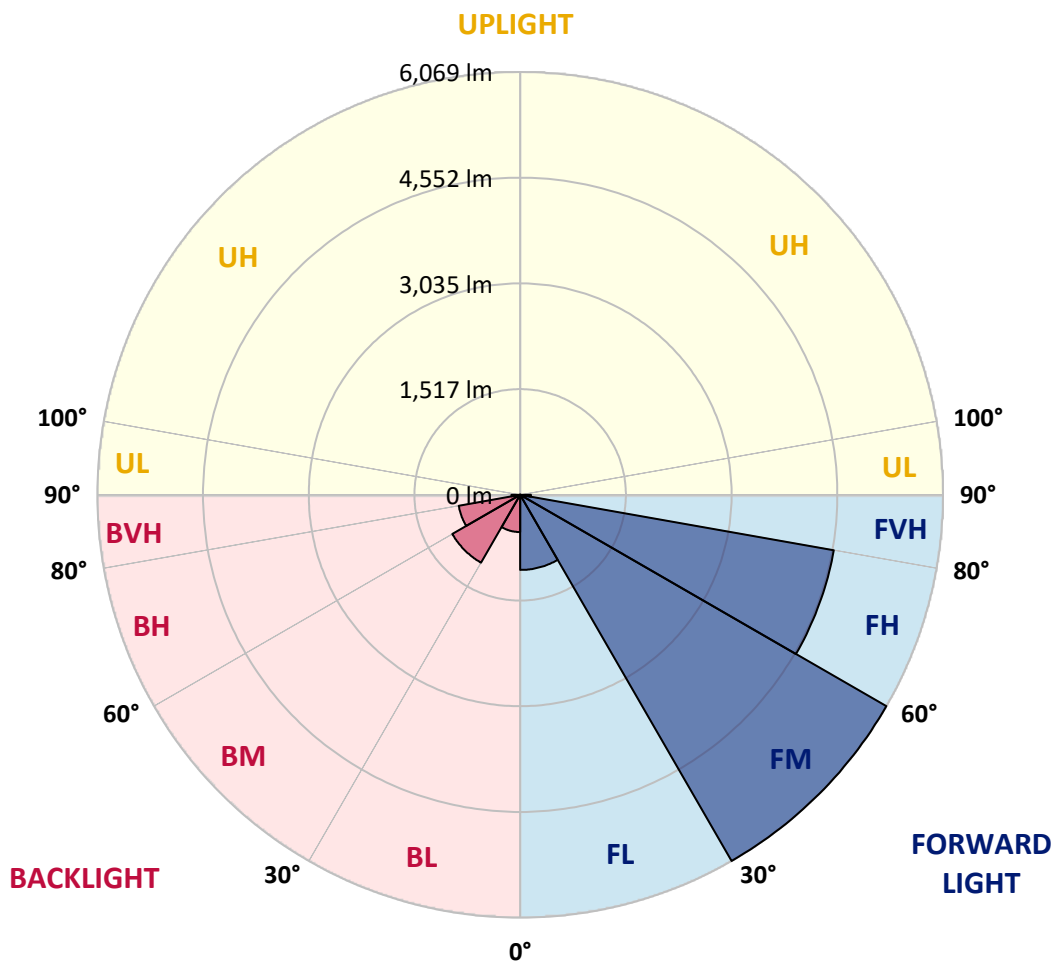
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1078.3	7.4			
FM (30°-60°)	6069.3	41.7			
FH (60°-80°)	4571.2	31.4			G2/5000
FVH (80°-90°)	153.4	1.1			G2/225
BL (0°-30°)	534.7	3.7	B2/1000		
BM (30°-60°)	1124.4	7.7	B2/2500		
BH (60°-80°)	895.3	6.2	B2/1000		G2/1000
BVH (80°-90°)	125.6	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°	2021.7	2021.7	2021.7	2021.7	2021.7	2021.7	2021.7	2021.7	2021.7	2021.7	2021.7
2.5°	2211.5	2198.6	2200.8	2197.2	2186.5	2167.8	2147.8	2111.2	2073.3	2053.2	2037.5
5°	2396.4	2392.8	2387.8	2376.3	2349.1	2310.4	2262.4	2197.9	2128.4	2091.9	2056.8
7.5°	2534.6	2532.5	2526.0	2518.9	2492.4	2445.8	2373.5	2281.8	2180.7	2130.6	2076.1
10°	2546.1	2549.7	2554.7	2574.0	2577.6	2552.6	2478.8	2367.7	2235.2	2170.7	2101.2
12.5°	2448.7	2456.6	2475.9	2525.3	2577.6	2608.4	2570.5	2458.0	2298.9	2220.9	2132.7
15°	2319.7	2324.0	2347.7	2415.7	2509.6	2604.9	2640.7	2557.6	2381.3	2285.3	2180.0
17.5°	2264.6	2266.7	2283.2	2328.3	2415.7	2551.8	2680.1	2665.7	2482.3	2365.6	2238.1
20°	2236.6	2241.6	2265.3	2309.7	2364.9	2483.8	2685.8	2782.5	2602.7	2465.9	2311.1
22.5°	2316.1	2314.0	2322.6	2344.8	2391.4	2463.0	2681.5	2902.9	2756.0	2594.8	2406.4
25°	2501.7	2509.6	2494.5	2469.4	2484.5	2534.6	2704.4	3033.3	2948.0	2760.3	2531.1
27.5°	2766.0	2758.2	2736.0	2677.2	2646.4	2667.9	2780.4	3173.7	3186.6	2978.1	2695.8
30°	3029.7	3023.2	3001.7	2930.1	2867.1	2849.1	2927.9	3334.9	3471.0	3239.6	2897.9
32.5°	3303.3	3296.2	3276.1	3204.5	3128.5	3087.0	3137.9	3521.1	3806.3	3551.9	3135.7
35°	3640.8	3627.2	3584.9	3485.3	3410.8	3378.6	3402.2	3755.4	4193.1	3921.6	3424.4
37.5°	3958.1	3978.9	3935.9	3798.4	3701.7	3690.2	3716.7	4041.2	4610.1	4335.0	3756.1
40°	4276.9	4280.5	4241.8	4129.4	4029.8	4011.2	4077.8	4388.0	5102.2	4829.3	4159.4
42.5°	4606.5	4613.7	4548.5	4444.6	4371.5	4375.1	4451.0	4794.2	5666.8	5411.7	4623.7
45°	4996.9	5007.7	4936.0	4799.9	4733.3	4867.3	4835.7	5249.8	6285.7	6073.7	5156.7
47.5°	5405.3	5421.8	5367.3	5239.8	5156.7	5340.8	5220.4	5754.9	6952.0	6783.6	5742.0
50°	5628.1	5651.7	5704.7	5695.4	5677.5	5646.7	5649.6	6296.5	7639.0	7523.0	6343.8
52.5°	5508.4	5507.7	5701.2	5936.1	6186.9	6205.5	6172.5	6867.5	8280.9	8245.8	6910.4
55°	4961.1	4998.4	5291.4	5746.3	6431.2	6858.9	6956.3	7521.5	8911.4	8952.2	7485.7
57.5°	4049.8	4080.6	4476.1	5110.1	6101.6	7247.2	8071.0	8472.2	9616.3	9806.9	8251.6
60°	2746.7	2784.0	3203.0	3964.6	5214.7	7030.8	9132.0	10168.7	10460.2	10893.7	9326.2
62.5°	1614.1	1647.7	1989.5	2501.0	3671.6	6025.7	9597.7	12582.2	11800.6	12533.5	10965.3
65°	1111.1	1134.1	1300.3	1556.7	2109.8	4058.4	9020.3	14248.6	13863.2	14565.2	12865.9
67.5°	894.1	891.2	1023.0	1197.8	1358.3	2092.6	6820.9	14060.2	15677.1	15970.1	13852.4
70°	736.5	733.6	823.1	967.9	1085.4	1178.5	3715.3	11865.1	15307.4	15426.4	12944.0
72.5°	616.1	619.0	676.3	783.7	890.5	887.6	1632.7	8346.8	12042.1	12864.5	10318.4
75°	520.1	521.5	559.5	635.5	722.9	715.0	885.5	4522.0	7000.0	7572.4	5719.8
77.5°	442.7	444.2	468.5	510.8	573.1	570.3	646.2	1953.6	2920.1	2884.2	1956.5
80°	394.7	394.7	406.2	414.1	448.5	435.6	479.3	938.5	1234.4	1139.8	780.9
82.5°	309.5	310.9	381.1	378.3	353.2	336.7	336.7	553.1	654.1	604.6	457.1
85°	174.1	173.4	245.7	296.6	310.9	237.1	235.0	309.5	356.1	313.8	221.4
87.5°	74.5	75.9	113.9	131.8	176.2	147.6	145.4	159.8	181.3	156.9	102.4
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°	2021.7	2021.7	2021.7	2021.7	2021.7	2021.7	2021.7	2021.7	2021.7	2021.7	2021.7
2.5°	2022.4	2003.8	1963.0	1912.1	1866.2	1836.1	1808.9	1769.5	1771.7	1744.4	1724.4
5°	2021.0	1982.3	1887.7	1775.3	1667.1	1589.0	1530.2	1477.2	1464.3	1439.3	1424.2
7.5°	2022.4	1959.4	1800.3	1620.5	1486.5	1387.7	1337.5	1309.6	1303.1	1294.5	1295.3
10°	2027.4	1938.6	1704.3	1475.8	1335.4	1270.2	1258.0	1266.6	1276.6	1279.5	1280.2
12.5°	2038.9	1920.0	1599.0	1346.8	1240.8	1220.8	1241.5	1270.9	1290.2	1299.6	1298.8
15°	2064.7	1905.6	1498.0	1245.8	1188.5	1199.3	1237.9	1279.5	1307.4	1320.3	1321.1
17.5°	2092.6	1884.9	1394.1	1168.5	1149.8	1177.1	1225.1	1273.8	1308.2	1322.5	1325.3
20°	2129.2	1859.1	1285.2	1110.4	1113.3	1144.1	1189.2	1237.9	1275.9	1288.1	1293.8
22.5°	2177.2	1831.1	1189.9	1063.1	1071.7	1095.4	1130.5	1172.8	1205.7	1211.4	1216.5
25°	2241.6	1801.0	1114.0	1020.2	1023.7	1037.4	1061.0	1086.1	1109.0	1102.5	1107.6
27.5°	2328.3	1775.3	1057.4	980.8	974.3	977.2	989.4	997.2	1009.4	991.5	993.7
30°	2430.0	1747.3	1013.7	946.4	928.5	923.4	926.3	930.6	939.9	915.6	912.0
32.5°	2548.3	1713.6	972.9	916.3	891.2	881.2	882.6	894.1	929.9	914.8	907.0
35°	2685.8	1675.7	929.9	883.3	866.1	851.8	850.4	886.2	992.9	983.6	976.5
37.5°	2847.0	1637.7	886.9	846.1	847.5	831.7	826.7	867.6	1005.1	968.6	963.6
40°	3051.9	1617.6	850.4	806.7	824.6	822.4	812.4	833.2	924.9	858.3	849.7
42.5°	3305.5	1620.5	823.1	764.4	797.4	820.3	804.5	805.2	838.2	788.0	780.2
45°	3618.6	1654.2	803.8	730.7	766.6	818.1	801.7	790.2	793.1	766.6	762.3
47.5°	3983.9	1723.7	790.2	702.8	737.2	810.3	800.9	785.9	779.4	765.1	761.5
50°	4390.1	1824.7	780.2	676.3	710.7	797.4	801.7	781.6	774.4	768.7	766.6
52.5°	4789.2	1940.0	765.1	653.4	689.9	781.6	803.8	777.3	769.4	765.1	763.0
55°	5234.1	2084.0	742.2	634.0	672.7	761.5	803.8	770.9	762.3	763.0	762.3
57.5°	5835.1	2316.9	715.0	617.5	651.9	737.2	790.2	763.7	752.9	753.7	754.4
60°	6774.3	2727.4	682.0	601.1	626.1	708.5	771.6	747.9	737.2	740.0	740.8
62.5°	8155.6	3329.9	639.0	576.7	598.9	677.7	745.8	727.9	717.1	724.3	724.3
65°	9591.2	3861.4	586.0	545.9	570.3	644.0	713.5	702.8	692.0	708.5	707.8
67.5°	9977.4	3742.5	533.0	512.2	541.6	606.8	674.9	669.1	663.4	692.0	690.6
70°	8863.4	3004.6	484.3	477.8	510.1	566.7	633.3	633.3	629.7	651.2	646.2
72.5°	6752.8	2130.6	437.7	441.3	474.3	523.0	588.2	593.2	587.5	598.2	593.9
75°	3615.0	1219.3	391.2	401.2	429.8	478.6	538.0	543.0	539.5	538.7	540.9
77.5°	1201.4	596.0	342.4	358.2	383.3	432.7	485.7	493.6	485.0	483.6	482.9
80°	535.2	374.7	288.7	309.5	331.7	380.4	430.6	437.0	427.7	440.6	424.1
82.5°	343.9	246.4	231.4	254.3	275.8	328.1	375.4	376.8	368.2	427.7	364.7
85°	166.9	152.6	174.1	194.9	213.5	257.9	310.9	311.6	290.1	264.4	255.0
87.5°	83.1	88.8	116.1	134.7	144.0	177.0	226.4	222.1	212.8	193.4	178.4
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)