

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: P192161

Luminaire Tested: **GLEON-AF-03-LED-E1-T2-7050-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192161  
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-T2-7050-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14408 lumens  
Efficiency: N/A  
Efficacy: 116.2 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

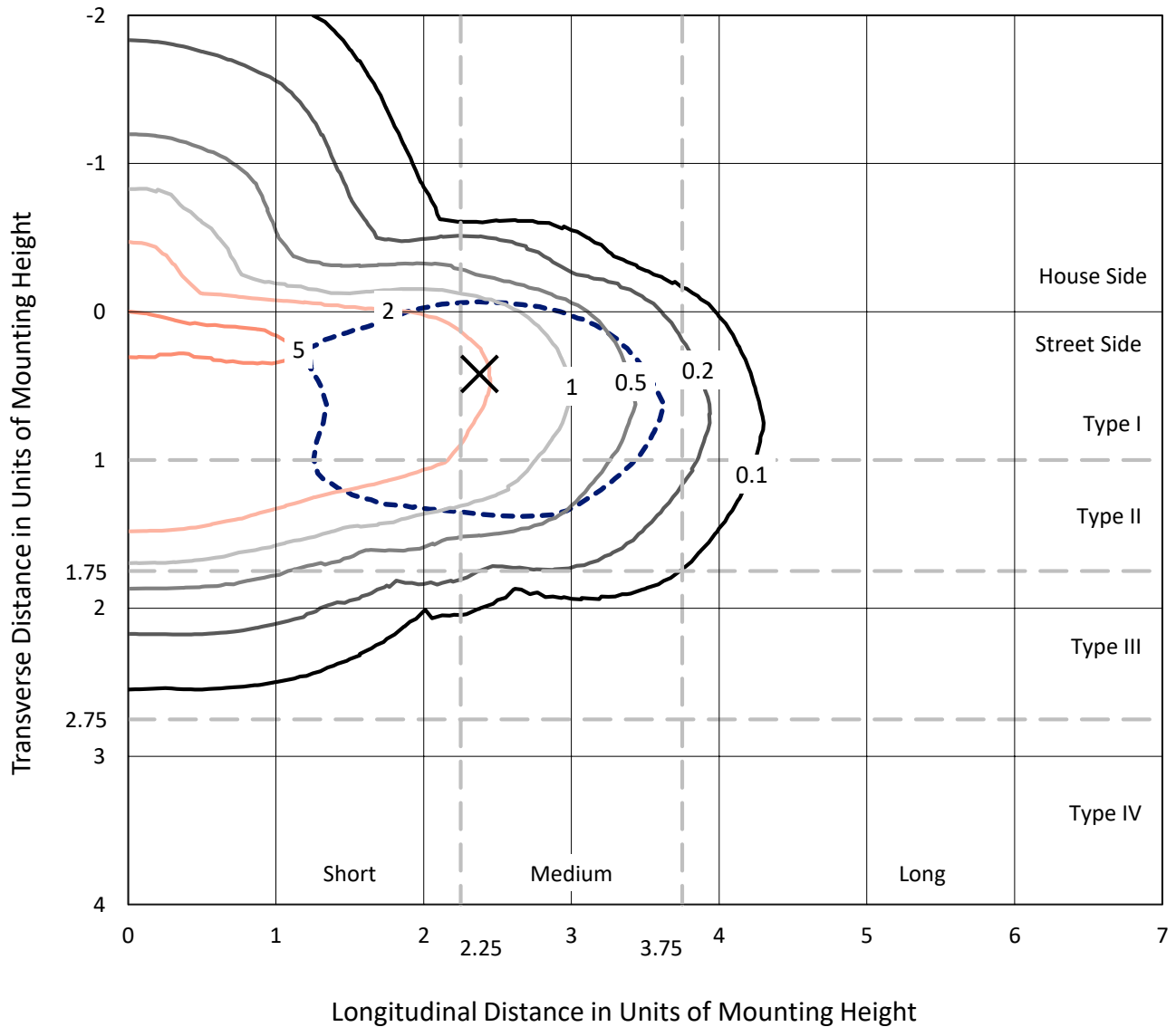
Input Watts (W): 124  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

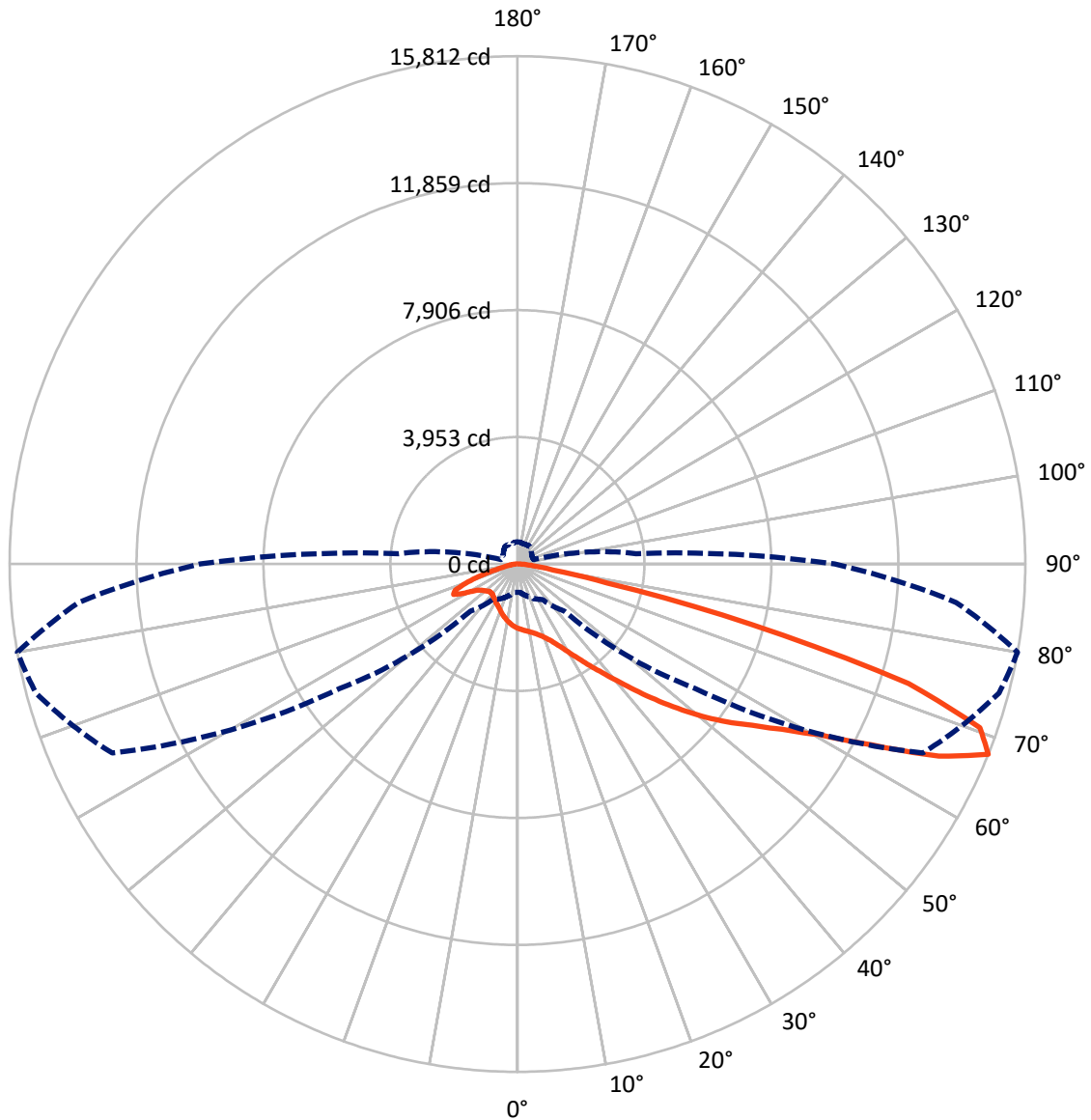
✕ Max cd  
 - - - 1/2 Max cd



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
<b>House Side</b>	Lumens	2653.4	0.0	2653.4
	% Fixture	18.4	0.0	18.4
<b>Street Side</b>	Lumens	11754.6	0.0	11754.6
	% Fixture	81.6	0.0	81.6
<b>Total</b>	Lumens	14408.0	0.0	14408.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	184.6	1.3
10°-20°	531.9	3.7
20°-30°	880.4	6.1
30°-40°	1440.2	10.0
40°-50°	2325.3	16.1
50°-60°	3357.0	23.3
60°-70°	3704.7	25.7
70°-80°	1707.6	11.9
80°-90°	276.2	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°	14408.0	100.0
0°-180°	14408.0	100.0



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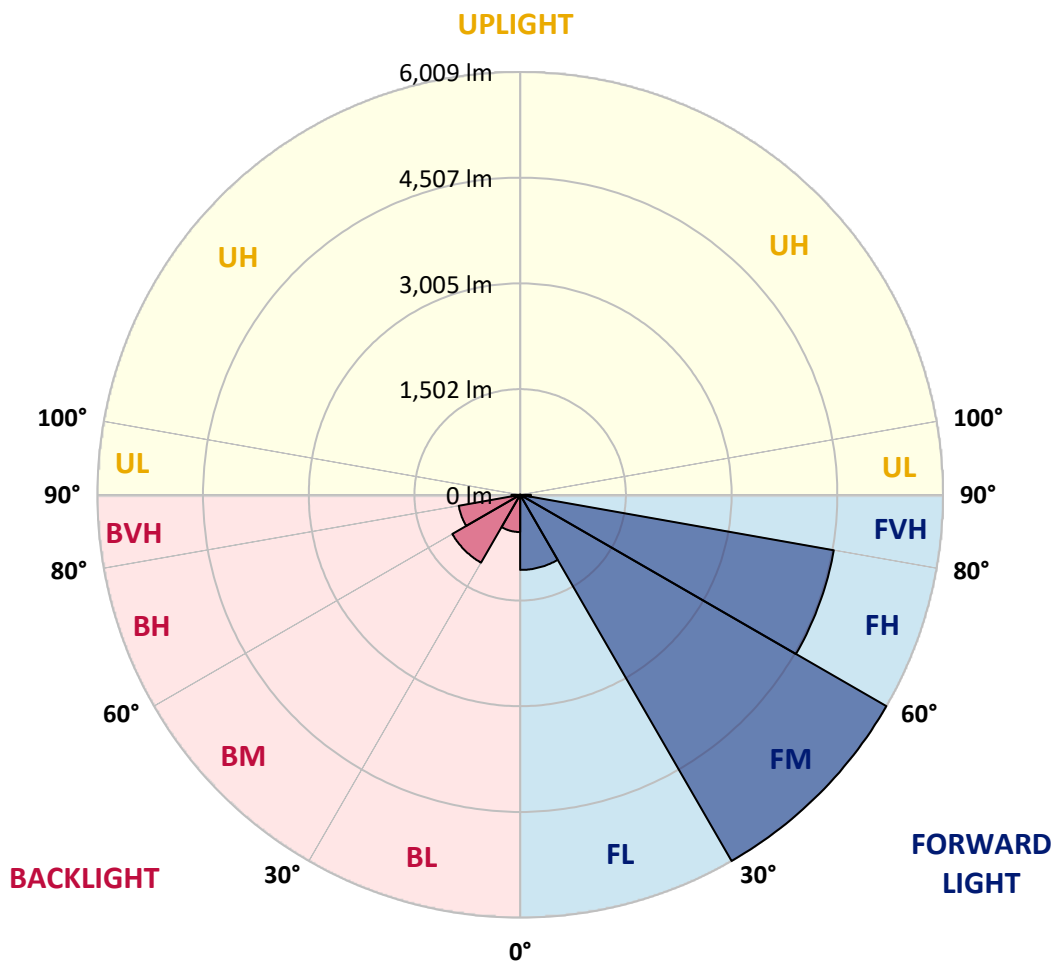
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1067.6	7.4			
FM (30°-60°)	6009.2	41.7			
FH (60°-80°)	4525.9	31.4			G2/5000
FVH (80°-90°)	151.9	1.1			G2/225
BL (0°-30°)	529.4	3.7	B2/1000		
BM (30°-60°)	1113.3	7.7	B2/2500		
BH (60°-80°)	886.4	6.2	B2/1000		G2/1000
BVH (80°-90°)	124.4	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°	2001.7	2001.7	2001.7	2001.7	2001.7	2001.7	2001.7	2001.7	2001.7	2001.7	2001.7
2.5°	2189.7	2176.9	2179.0	2175.5	2164.8	2146.4	2126.5	2090.4	2052.8	2032.9	2017.3
5°	2372.7	2369.1	2364.2	2352.8	2325.8	2287.5	2240.0	2176.2	2107.4	2071.2	2036.4
7.5°	2509.6	2507.4	2501.0	2494.0	2467.7	2421.6	2350.0	2259.2	2159.2	2109.5	2055.6
10°	2520.9	2524.5	2529.4	2548.6	2552.1	2527.3	2454.2	2344.3	2213.1	2149.2	2080.4
12.5°	2424.4	2432.2	2451.4	2500.3	2552.1	2582.6	2545.0	2433.7	2276.2	2198.9	2111.6
15°	2296.8	2301.0	2324.4	2391.8	2484.7	2579.1	2614.5	2532.3	2357.8	2262.7	2158.4
17.5°	2242.1	2244.3	2260.6	2305.3	2391.8	2526.6	2653.6	2639.4	2457.8	2342.2	2215.9
20°	2214.5	2219.5	2242.9	2286.8	2341.5	2459.2	2659.2	2755.0	2576.9	2441.5	2288.3
22.5°	2293.2	2291.1	2299.6	2321.6	2367.7	2438.6	2655.0	2874.1	2728.7	2569.1	2382.6
25°	2476.9	2484.7	2469.8	2445.0	2459.9	2509.6	2677.7	3003.2	2918.8	2733.0	2506.0
27.5°	2738.7	2730.9	2708.9	2650.7	2620.2	2641.5	2752.9	3142.3	3155.0	2948.6	2669.2
30°	2999.7	2993.3	2972.0	2901.1	2838.7	2821.0	2899.0	3301.9	3436.6	3207.5	2869.2
32.5°	3270.7	3263.6	3243.7	3172.8	3097.6	3056.4	3106.8	3486.3	3768.6	3516.8	3104.7
35°	3604.7	3591.3	3549.4	3450.8	3377.1	3345.1	3368.5	3718.2	4151.6	3882.8	3390.5
37.5°	3919.0	3939.5	3897.0	3760.8	3665.0	3653.7	3679.9	4001.3	4564.4	4292.1	3718.9
40°	4234.6	4238.2	4199.9	4088.5	3989.9	3971.5	4037.4	4344.6	5051.7	4781.5	4118.3
42.5°	4560.9	4568.0	4503.4	4400.6	4328.2	4331.8	4407.0	4746.7	5610.7	5358.2	4577.9
45°	4947.5	4958.1	4887.2	4752.4	4686.5	4819.1	4787.9	5197.9	6223.5	6013.6	5105.7
47.5°	5351.8	5368.1	5314.2	5187.9	5105.7	5288.0	5168.8	5697.9	6883.2	6716.5	5685.2
50°	5572.4	5595.8	5648.3	5639.1	5621.3	5590.8	5593.7	6234.2	7563.4	7448.5	6281.0
52.5°	5453.9	5453.2	5644.7	5877.4	6125.7	6144.1	6111.5	6799.5	8199.0	8164.2	6842.1
55°	4912.0	4948.9	5239.0	5689.4	6367.5	6791.0	6887.5	7447.1	8823.2	8863.6	7411.6
57.5°	4009.8	4040.3	4431.8	5059.6	6041.2	7175.4	7991.2	8388.4	9521.2	9709.8	8169.9
60°	2719.5	2756.4	3171.4	3925.4	5163.1	6961.2	9041.7	10068.0	10356.7	10785.9	9233.9
62.5°	1598.1	1631.4	1969.8	2476.2	3635.2	5966.1	9502.7	12457.7	11683.9	12409.5	10856.8
65°	1100.1	1122.8	1287.4	1541.3	2088.9	4018.3	8931.0	14107.6	13726.0	14421.1	12738.6
67.5°	885.2	882.4	1012.9	1186.0	1344.9	2071.9	6753.4	13921.0	15522.0	15812.1	13715.3
70°	729.2	726.3	815.0	958.3	1074.6	1166.8	3678.5	11747.7	15156.0	15273.7	12815.9
72.5°	610.0	612.8	669.6	776.0	881.7	878.8	1616.5	8264.2	11922.9	12737.2	10216.3
75°	515.0	516.4	554.0	629.2	715.7	707.9	876.7	4477.2	6930.7	7497.5	5663.2
77.5°	438.4	439.8	463.9	505.7	567.5	564.6	639.8	1934.3	2891.2	2855.7	1937.1
80°	390.8	390.8	402.2	410.0	444.0	431.3	474.5	929.2	1222.2	1128.5	773.2
82.5°	306.4	307.8	377.4	374.5	349.7	333.4	333.4	547.6	647.6	598.7	452.5
85°	172.4	171.7	243.3	293.7	307.8	234.8	232.7	306.4	352.5	310.7	219.2
87.5°	73.8	75.2	112.8	130.5	174.5	146.1	144.0	158.2	179.5	155.3	101.4
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°	2001.7	2001.7	2001.7	2001.7	2001.7	2001.7	2001.7	2001.7	2001.7	2001.7	2001.7
2.5°	2002.4	1984.0	1943.5	1893.2	1847.8	1818.0	1791.0	1752.0	1754.1	1727.2	1707.3
5°	2001.0	1962.7	1869.0	1757.7	1650.6	1573.3	1515.1	1462.6	1449.8	1425.0	1410.1
7.5°	2002.4	1940.0	1782.5	1604.5	1471.8	1373.9	1324.3	1296.6	1290.2	1281.7	1282.4
10°	2007.4	1919.4	1687.5	1461.2	1322.2	1257.6	1245.6	1254.1	1264.0	1266.8	1267.5
12.5°	2018.7	1901.0	1583.2	1333.5	1228.5	1208.7	1229.2	1258.3	1277.5	1286.7	1286.0
15°	2044.2	1886.8	1483.2	1233.5	1176.8	1187.4	1225.7	1266.8	1294.5	1307.3	1308.0
17.5°	2071.9	1866.2	1380.3	1156.9	1138.5	1165.4	1212.9	1261.2	1295.2	1309.4	1312.2
20°	2108.1	1840.7	1272.5	1099.4	1102.3	1132.8	1177.5	1225.7	1263.3	1275.4	1281.0
22.5°	2155.6	1813.0	1178.2	1052.6	1061.1	1084.5	1119.3	1161.2	1193.8	1199.5	1204.4
25°	2219.5	1783.2	1103.0	1010.1	1013.6	1027.1	1050.5	1075.3	1098.0	1091.6	1096.6
27.5°	2305.3	1757.7	1047.0	971.1	964.7	967.5	979.6	987.4	999.4	981.7	983.8
30°	2406.0	1730.0	1003.7	937.0	919.3	914.3	917.1	921.4	930.6	906.5	903.0
32.5°	2523.0	1696.7	963.3	907.2	882.4	872.5	873.9	885.2	920.7	905.8	898.0
35°	2659.2	1659.1	920.7	874.6	857.6	843.4	842.0	877.4	983.1	973.9	966.8
37.5°	2818.8	1621.5	878.1	837.7	839.1	823.5	818.6	859.0	995.2	959.0	954.0
40°	3021.7	1601.6	842.0	798.7	816.4	814.3	804.4	824.9	915.7	849.8	841.2
42.5°	3272.8	1604.5	815.0	756.8	789.5	812.2	796.6	797.3	829.9	780.2	772.4
45°	3582.8	1637.8	795.9	723.5	759.0	810.0	793.7	782.4	785.2	759.0	754.7
47.5°	3944.5	1706.6	782.4	695.8	729.9	802.2	793.0	778.1	771.7	757.5	754.0
50°	4346.7	1806.6	772.4	669.6	703.6	789.5	793.7	773.9	766.8	761.1	759.0
52.5°	4741.8	1920.8	757.5	646.9	683.1	773.9	795.9	769.6	761.8	757.5	755.4
55°	5182.3	2063.4	734.9	627.7	666.0	754.0	795.9	763.2	754.7	755.4	754.7
57.5°	5777.4	2293.9	707.9	611.4	645.5	729.9	782.4	756.1	745.5	746.2	746.9
60°	6707.3	2700.4	675.3	595.1	619.9	701.5	763.9	740.5	729.9	732.7	733.4
62.5°	8074.9	3296.9	632.7	571.0	593.0	671.0	738.4	720.7	710.0	717.1	717.1
65°	9496.3	3823.2	580.2	540.5	564.6	637.7	706.5	695.8	685.2	701.5	700.8
67.5°	9878.6	3705.5	527.7	507.2	536.2	600.8	668.2	662.5	656.8	685.2	683.8
70°	8775.7	2974.9	479.5	473.1	505.0	561.1	627.0	627.0	623.5	644.8	639.8
72.5°	6686.0	2109.5	433.4	436.9	469.6	517.8	582.3	587.3	581.6	592.3	588.0
75°	3579.2	1207.3	387.3	397.2	425.6	473.8	532.7	537.7	534.1	533.4	535.5
77.5°	1189.5	590.2	339.1	354.7	379.5	428.4	480.9	488.7	480.2	478.8	478.1
80°	529.9	371.0	285.9	306.4	328.4	376.6	426.3	432.7	423.5	436.2	419.9
82.5°	340.5	244.0	229.1	251.8	273.1	324.9	371.7	373.1	364.6	423.5	361.0
85°	165.3	151.1	172.4	192.9	211.4	255.4	307.8	308.6	287.3	261.7	252.5
87.5°	82.3	88.0	114.9	133.4	142.6	175.2	224.1	219.9	210.7	191.5	176.6
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)