

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: P192180

Luminaire Tested: **GLEON-AF-02-LED-E1-T2-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192180
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-02-LED-E1-T2-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13111 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B2 - U0 - G2

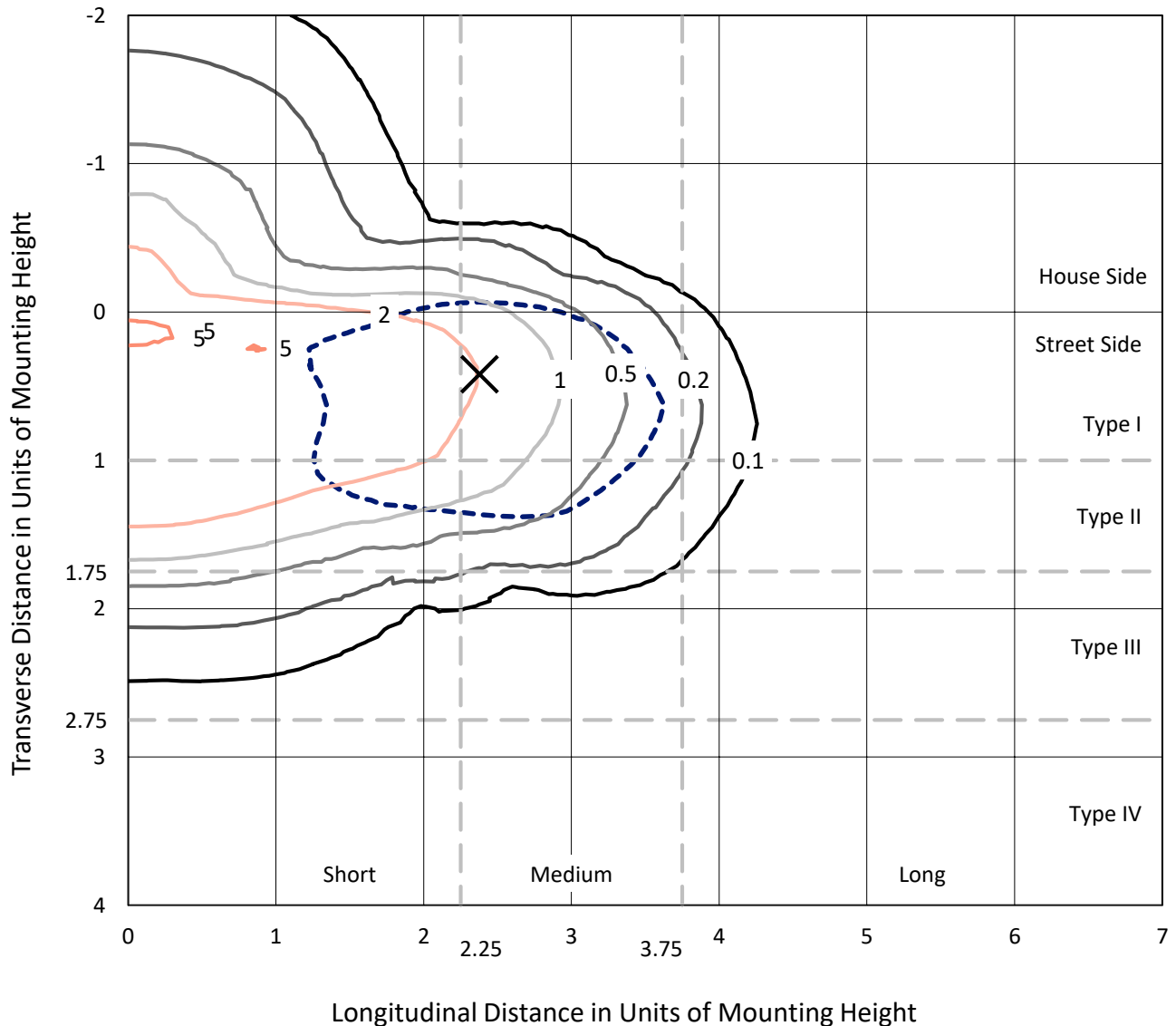
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

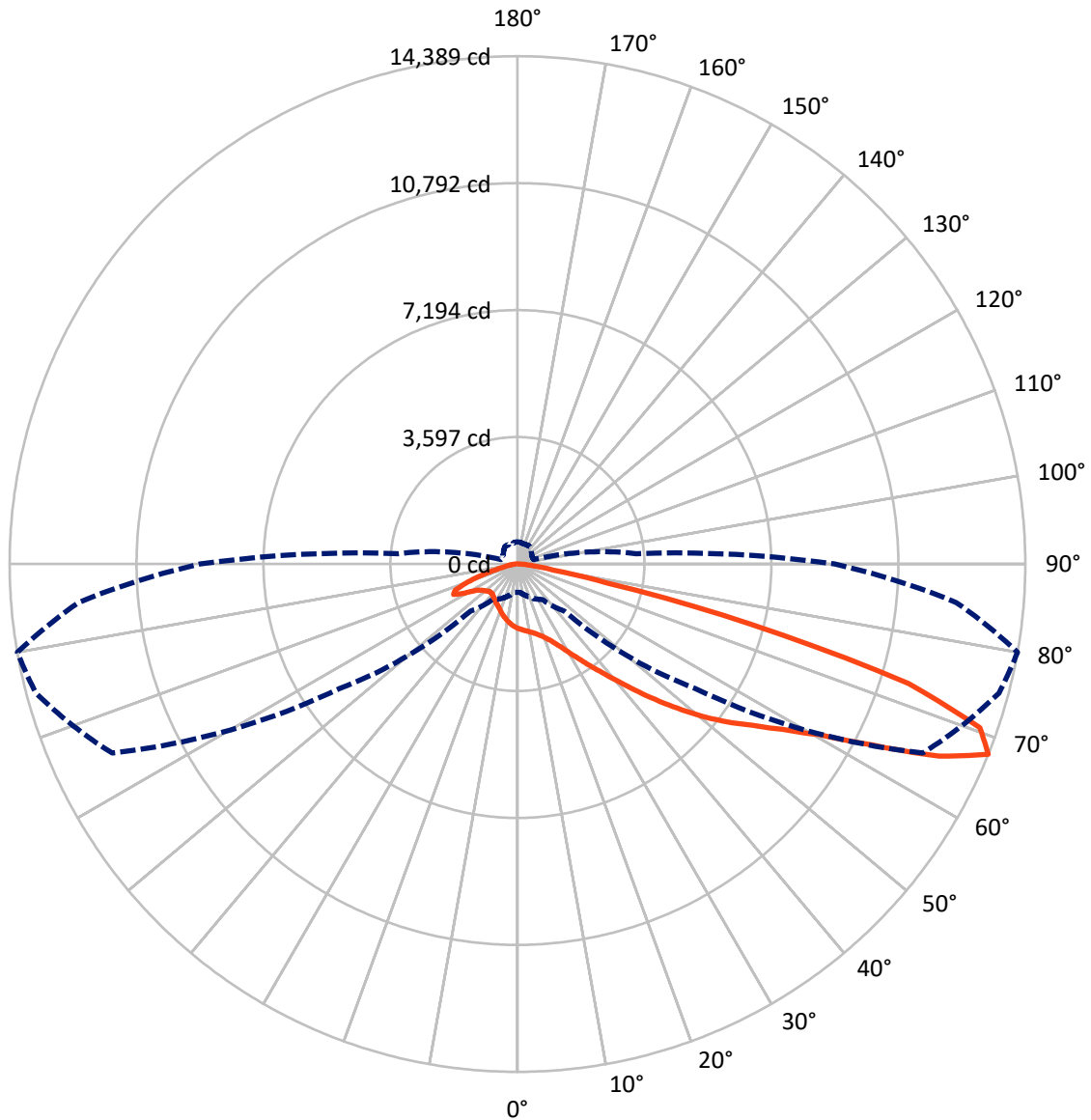
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.5 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	2414.5	0.0	2414.5
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	10696.5	0.0	10696.5
	% Fixture	81.6	0.0	81.6
Total	Lumens	13111.0	0.0	13111.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.0	1.3
10°-20°	484.0	3.7
20°-30°	801.2	6.1
30°-40°	1310.5	10.0
40°-50°	2116.0	16.1
50°-60°	3054.8	23.3
60°-70°	3371.2	25.7
70°-80°	1553.9	11.9
80°-90°	251.3	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°	13111.0	100.0
0°-180°	13111.0	100.0



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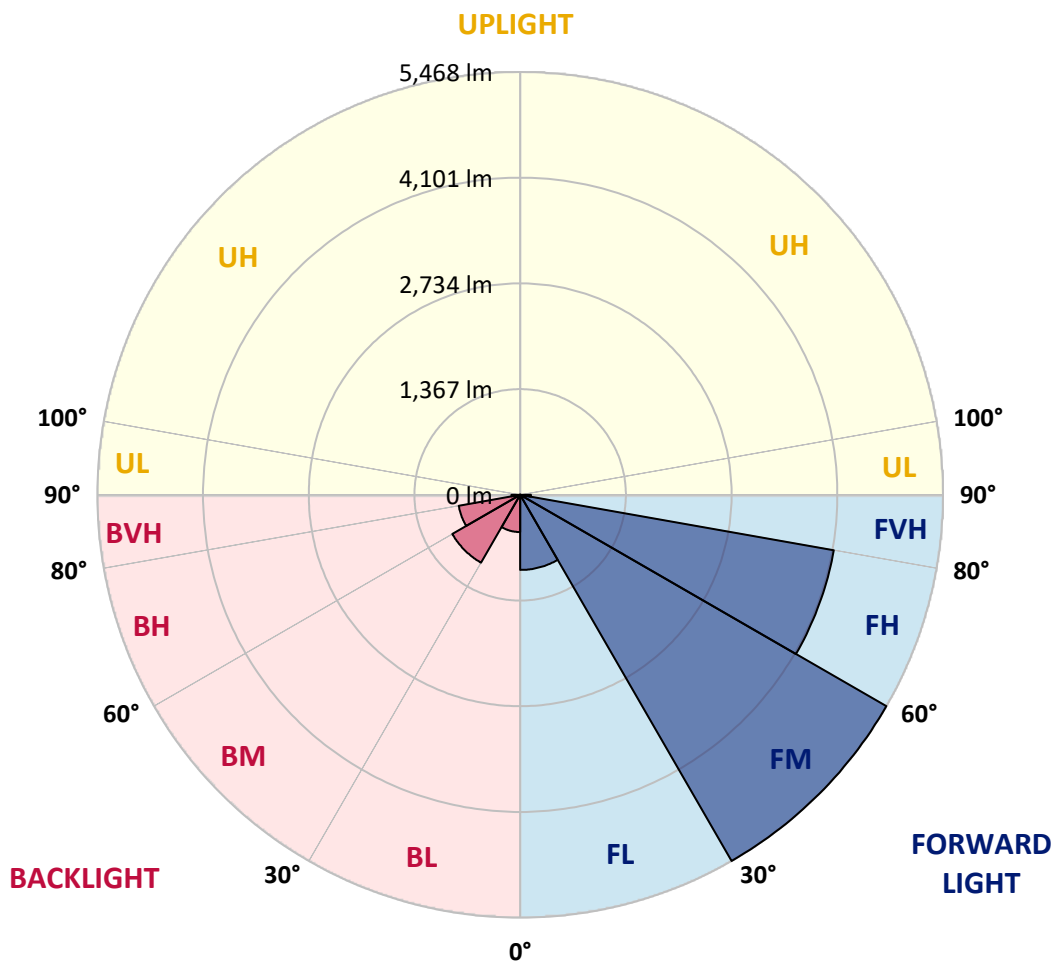
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	971.5	7.4			
FM (30°-60°)	5468.3	41.7			
FH (60°-80°)	4118.5	31.4			G2/5000
FVH (80°-90°)	138.2	1.1			G2/225
BL (0°-30°)	481.7	3.7	B1/500		
BM (30°-60°)	1013.1	7.7	B2/2500		
BH (60°-80°)	806.6	6.2	B2/1000		G2/1000
BVH (80°-90°)	113.1	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°	1821.5	1821.5	1821.5	1821.5	1821.5	1821.5	1821.5	1821.5	1821.5	1821.5	1821.5
2.5°	1992.5	1980.9	1982.9	1979.6	1970.0	1953.2	1935.1	1902.2	1868.0	1849.9	1835.7
5°	2159.1	2155.8	2151.3	2141.0	2116.5	2081.6	2038.4	1980.3	1917.7	1884.8	1853.1
7.5°	2283.7	2281.7	2275.9	2269.5	2245.6	2203.6	2138.4	2055.8	1964.8	1919.6	1870.6
10°	2294.0	2297.2	2301.7	2319.2	2322.4	2299.8	2233.3	2133.3	2013.8	1955.8	1893.1
12.5°	2206.2	2213.3	2230.7	2275.3	2322.4	2350.1	2315.9	2214.6	2071.3	2000.9	1921.5
15°	2090.0	2093.9	2115.2	2176.5	2261.1	2346.9	2379.2	2304.3	2145.5	2059.0	1964.1
17.5°	2040.3	2042.2	2057.1	2097.8	2176.5	2299.1	2414.7	2401.8	2236.5	2131.3	2016.4
20°	2015.1	2019.7	2041.0	2081.0	2130.7	2237.8	2419.8	2507.0	2345.0	2221.7	2082.3
22.5°	2086.8	2084.8	2092.6	2112.6	2154.6	2219.1	2416.0	2615.4	2483.1	2337.9	2168.1
25°	2254.0	2261.1	2247.5	2224.9	2238.5	2283.7	2436.6	2732.9	2656.1	2487.0	2280.4
27.5°	2492.1	2485.0	2465.0	2412.1	2384.3	2403.7	2505.0	2859.4	2871.0	2683.2	2428.9
30°	2729.7	2723.9	2704.5	2639.9	2583.1	2567.0	2638.0	3004.6	3127.3	2918.8	2610.9
32.5°	2976.2	2969.8	2951.7	2887.2	2818.7	2781.3	2827.1	3172.5	3429.3	3200.2	2825.2
35°	3280.2	3268.0	3229.9	3140.2	3073.1	3044.0	3065.3	3383.5	3777.9	3533.3	3085.3
37.5°	3566.2	3584.9	3546.2	3422.2	3335.1	3324.8	3348.7	3641.1	4153.6	3905.7	3384.2
40°	3853.4	3856.6	3821.8	3720.5	3630.7	3614.0	3674.0	3953.5	4597.0	4351.1	3747.6
42.5°	4150.3	4156.8	4098.1	4004.5	3938.6	3941.8	4010.3	4319.4	5105.6	4875.8	4165.8
45°	4502.1	4511.8	4447.2	4324.6	4264.6	4385.3	4356.9	4730.0	5663.3	5472.2	4646.0
47.5°	4870.0	4884.9	4835.8	4720.9	4646.0	4811.9	4703.5	5185.0	6263.6	6111.9	5173.4
50°	5070.8	5092.1	5139.8	5131.4	5115.3	5087.5	5090.1	5673.0	6882.6	6778.0	5715.6
52.5°	4963.0	4962.3	5136.6	5348.3	5574.2	5591.0	5561.3	6187.4	7460.9	7429.3	6226.1
55°	4469.8	4503.4	4767.4	5177.3	5794.3	6179.7	6267.5	6776.7	8028.9	8065.7	6744.5
57.5°	3648.8	3676.6	4032.9	4604.1	5497.4	6529.5	7271.8	7633.3	8664.1	8835.8	7434.5
60°	2474.7	2508.3	2885.9	3572.0	4698.3	6334.6	8227.7	9161.7	9424.4	9814.9	8402.6
62.5°	1454.2	1484.6	1792.5	2253.3	3308.0	5429.0	8647.3	11336.3	10632.1	11292.4	9879.5
65°	1001.1	1021.8	1171.5	1402.6	1900.9	3656.6	8127.0	12837.6	12490.4	13122.9	11591.9
67.5°	805.5	803.0	921.7	1079.2	1223.8	1885.4	6145.5	12667.9	14124.7	14388.7	12480.7
70°	663.5	661.0	741.6	872.0	977.9	1061.8	3347.4	10690.2	13791.6	13898.8	11662.2
72.5°	555.1	557.7	609.3	706.1	802.3	799.7	1471.0	7520.3	10849.6	11590.6	9296.6
75°	468.6	469.9	504.1	572.5	651.3	644.2	797.8	4074.2	6306.8	6822.6	5153.4
77.5°	398.9	400.2	422.1	460.2	516.4	513.8	582.2	1760.2	2630.9	2598.6	1762.8
80°	355.7	355.7	366.0	373.1	404.1	392.4	431.8	845.6	1112.1	1026.9	703.6
82.5°	278.8	280.1	343.4	340.8	318.2	303.4	303.4	498.3	589.3	544.8	411.8
85°	156.8	156.2	221.4	267.2	280.1	213.6	211.7	278.8	320.8	282.7	199.4
87.5°	67.1	68.4	102.6	118.8	158.8	133.0	131.0	143.9	163.3	141.4	92.3
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°	1821.5	1821.5	1821.5	1821.5	1821.5	1821.5	1821.5	1821.5	1821.5	1821.5	1821.5
2.5°	1822.1	1805.4	1768.6	1722.7	1681.4	1654.3	1629.8	1594.3	1596.2	1571.7	1553.6
5°	1820.9	1786.0	1700.8	1599.5	1502.0	1431.6	1378.7	1330.9	1319.3	1296.7	1283.2
7.5°	1822.1	1765.3	1622.1	1460.0	1339.3	1250.3	1205.1	1179.9	1174.1	1166.4	1167.0
10°	1826.7	1746.6	1535.6	1329.7	1203.1	1144.4	1133.4	1141.2	1150.2	1152.8	1153.4
12.5°	1837.0	1729.8	1440.7	1213.5	1117.9	1099.9	1118.6	1145.1	1162.5	1170.9	1170.2
15°	1860.2	1716.9	1349.7	1122.5	1070.8	1080.5	1115.4	1152.8	1178.0	1189.6	1190.2
17.5°	1885.4	1698.2	1256.1	1052.8	1036.0	1060.5	1103.7	1147.6	1178.6	1191.5	1194.1
20°	1918.3	1675.0	1158.0	1000.5	1003.1	1030.8	1071.5	1115.4	1149.6	1160.5	1165.7
22.5°	1961.6	1649.8	1072.1	957.9	965.6	986.9	1018.5	1056.6	1086.3	1091.5	1096.0
25°	2019.7	1622.7	1003.7	919.1	922.4	934.6	955.9	978.5	999.2	993.4	997.9
27.5°	2097.8	1599.5	952.7	883.6	877.8	880.4	891.4	898.5	909.5	893.3	895.3
30°	2189.4	1574.3	913.3	852.7	836.5	832.0	834.6	838.5	846.8	824.9	821.7
32.5°	2295.9	1543.9	876.5	825.5	803.0	793.9	795.2	805.5	837.8	824.3	817.2
35°	2419.8	1509.7	837.8	795.9	780.4	767.5	766.2	798.4	894.6	886.2	879.8
37.5°	2565.1	1475.5	799.1	762.3	763.6	749.4	744.9	781.7	905.6	872.7	868.1
40°	2749.7	1457.5	766.2	726.8	742.9	741.0	732.0	750.7	833.3	773.3	765.5
42.5°	2978.2	1460.0	741.6	688.7	718.4	739.1	724.9	725.5	755.2	710.0	702.9
45°	3260.2	1490.4	724.2	658.4	690.6	737.1	722.3	711.9	714.5	690.6	686.8
47.5°	3589.4	1553.0	711.9	633.2	664.2	730.0	721.6	708.1	702.3	689.4	686.1
50°	3955.4	1644.0	702.9	609.3	640.3	718.4	722.3	704.2	697.7	692.6	690.6
52.5°	4314.9	1747.9	689.4	588.7	621.6	704.2	724.2	700.3	693.2	689.4	687.4
55°	4715.8	1877.7	668.7	571.2	606.1	686.1	724.2	694.5	686.8	687.4	686.8
57.5°	5257.3	2087.4	644.2	556.4	587.4	664.2	711.9	688.1	678.4	679.0	679.7
60°	6103.5	2457.3	614.5	541.5	564.1	638.4	695.2	673.9	664.2	666.8	667.4
62.5°	7348.0	3000.1	575.8	519.6	539.6	610.6	671.9	655.8	646.1	652.6	652.6
65°	8641.5	3479.1	528.0	491.8	513.8	580.3	642.9	633.2	623.5	638.4	637.7
67.5°	8989.4	3371.9	480.2	461.5	488.0	546.7	608.0	602.9	597.7	623.5	622.2
70°	7985.7	2707.1	436.3	430.5	459.6	510.6	570.6	570.6	567.4	586.7	582.2
72.5°	6084.1	1919.6	394.4	397.6	427.3	471.2	529.9	534.4	529.3	539.0	535.1
75°	3257.0	1098.6	352.4	361.5	387.3	431.2	484.7	489.3	486.0	485.4	487.3
77.5°	1082.4	537.0	308.5	322.7	345.3	389.9	437.6	444.7	437.0	435.7	435.0
80°	482.2	337.6	260.1	278.8	298.8	342.7	387.9	393.7	385.3	397.0	382.1
82.5°	309.8	222.0	208.5	229.1	248.5	295.6	338.2	339.5	331.8	385.3	328.5
85°	150.4	137.5	156.8	175.6	192.3	232.4	280.1	280.8	261.4	238.2	229.8
87.5°	74.9	80.0	104.6	121.3	129.7	159.4	204.0	200.1	191.7	174.3	160.7
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)