

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: P192172

Luminaire Tested: **GLEON-AF-04-LED-E1-T2-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192172
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-04-LED-E1-T2-7050
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23563 lumens
Efficiency: N/A
Efficacy: 104.7 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): 225
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

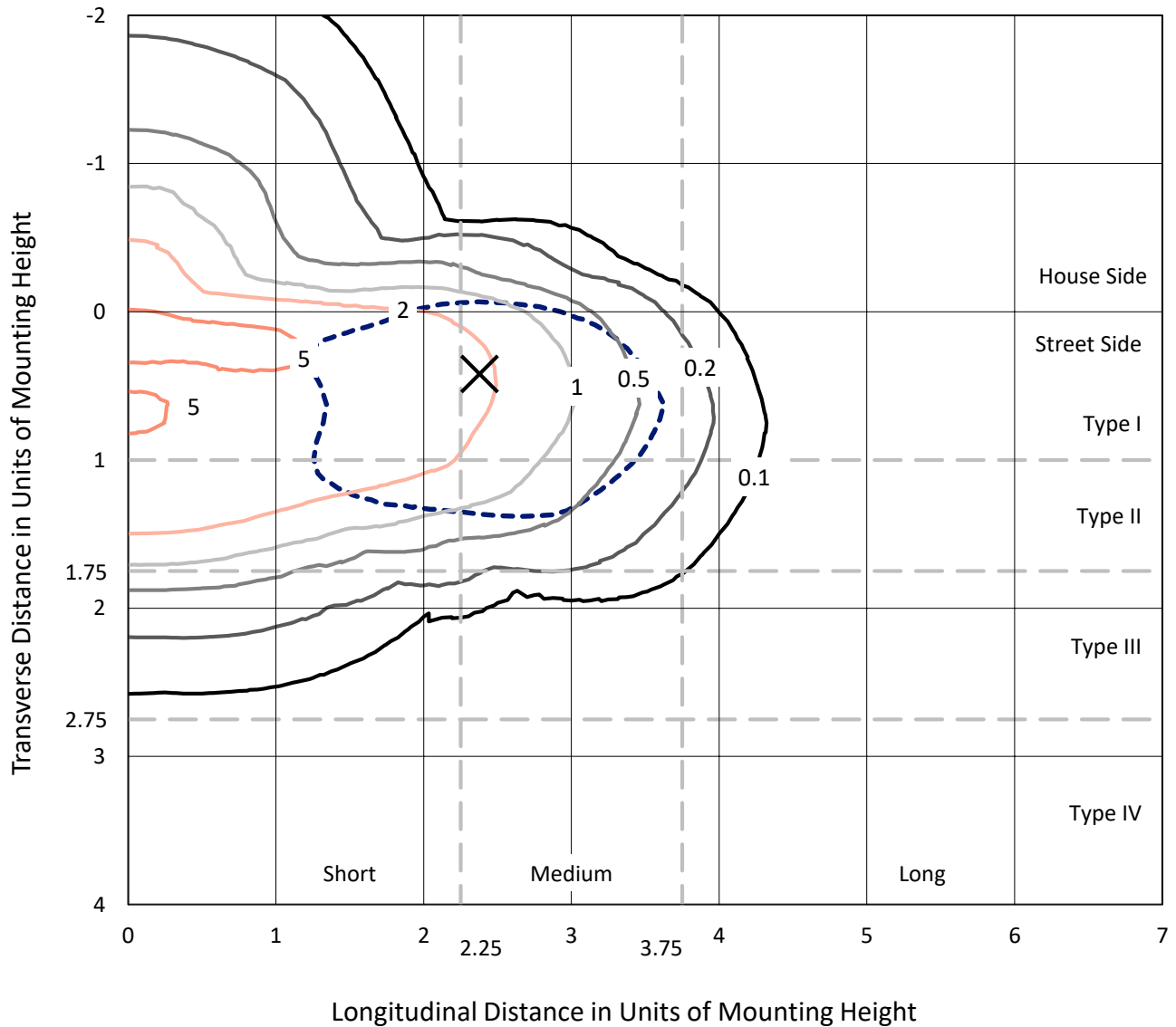


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

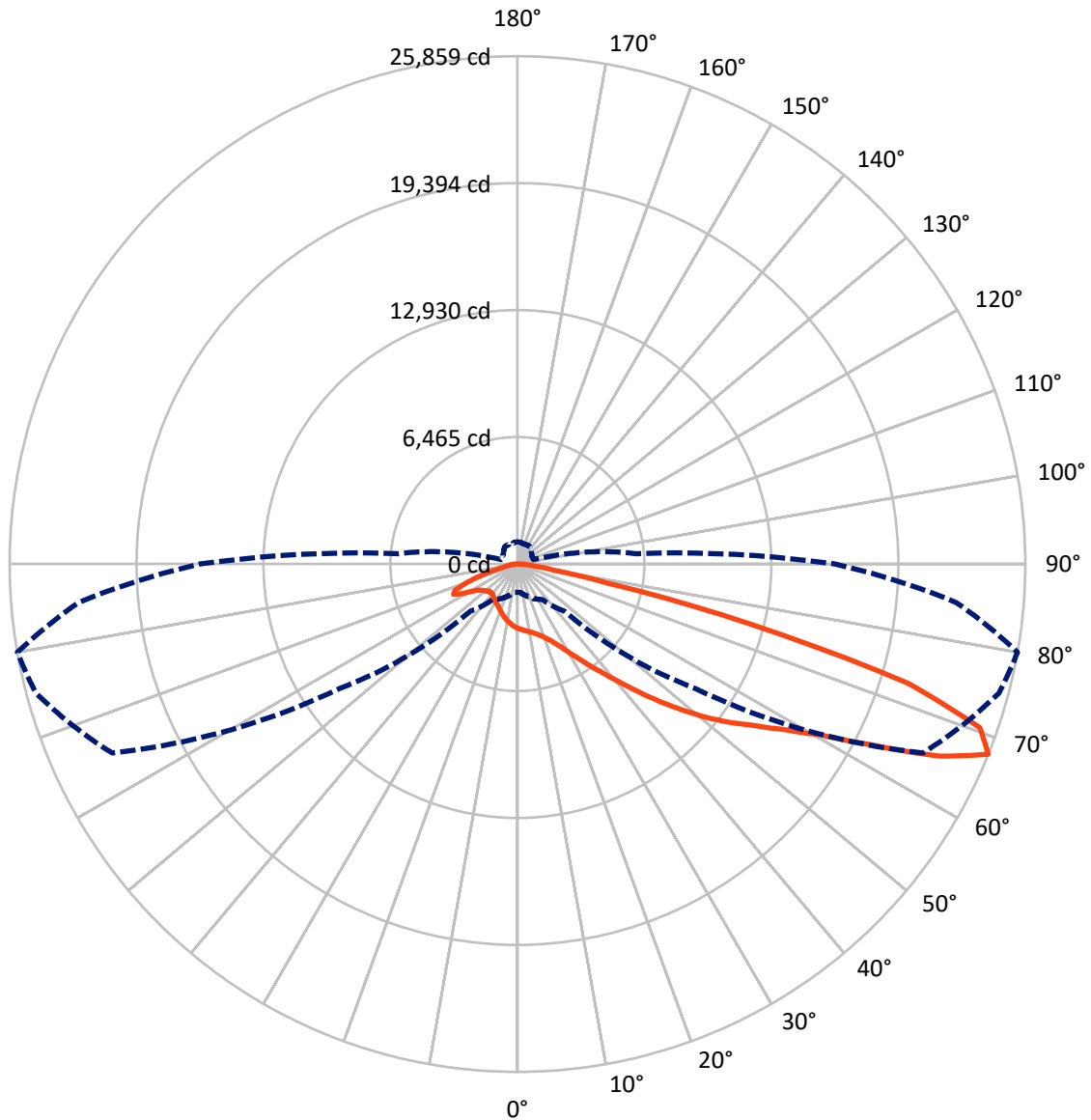


Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type II - Medium - Full Cutoff

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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	4339.4	0.0	4339.4
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	19223.6	0.0	19223.6
	% Fixture	81.6	0.0	81.6
Total	Lumens	23563.0	0.0	23563.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.0	1.3
10°-20°	869.9	3.7
20°-30°	1439.9	6.1
30°-40°	2355.3	10.0
40°-50°	3802.8	16.1
50°-60°	5490.1	23.3
60°-70°	6058.7	25.7
70°-80°	2792.7	11.9
80°-90°	451.7	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°	23563.0	100.0
0°-180°	23563.0	100.0



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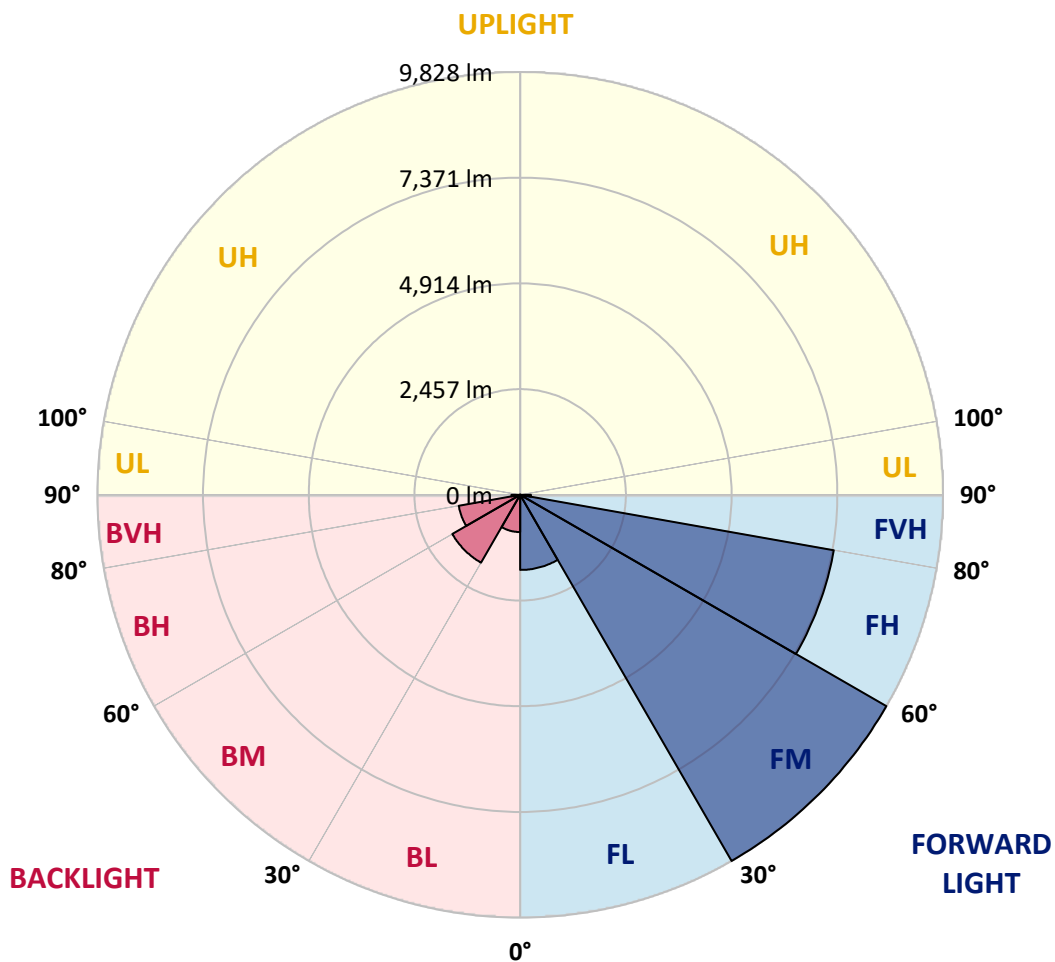
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1746.0	7.4			
FM (30°-60°)	9827.5	41.7			
FH (60°-80°)	7401.8	31.4			G3/7500
FVH (80°-90°)	248.3	1.1			G3/500
BL (0°-30°)	865.8	3.7	B2/1000		
BM (30°-60°)	1820.7	7.7	B2/2500		
BH (60°-80°)	1449.6	6.2	B3/2500		G3/2500
BVH (80°-90°)	203.4	0.9			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	3273.6	3273.6	3273.6	3273.6	3273.6	3273.6	3273.6	3273.6	3273.6	3273.6	3273.6
2.5°	3581.0	3560.1	3563.6	3557.8	3540.4	3510.2	3477.8	3418.6	3357.1	3324.6	3299.1
5°	3880.3	3874.5	3866.4	3847.8	3803.7	3741.1	3663.4	3559.0	3446.4	3387.3	3330.4
7.5°	4104.2	4100.7	4090.2	4078.6	4035.7	3960.3	3843.2	3694.7	3531.1	3449.9	3361.7
10°	4122.7	4128.5	4136.6	4168.0	4173.8	4133.2	4013.7	3833.9	3619.3	3514.9	3402.3
12.5°	3965.0	3977.7	4009.0	4089.1	4173.8	4223.6	4162.2	3980.0	3722.5	3596.1	3453.4
15°	3756.2	3763.1	3801.4	3911.6	4063.6	4217.8	4275.8	4141.3	3855.9	3700.5	3530.0
17.5°	3666.8	3670.3	3697.0	3770.1	3911.6	4132.0	4339.6	4316.4	4019.5	3830.4	3623.9
20°	3621.6	3629.7	3668.0	3739.9	3829.2	4021.8	4348.9	4505.5	4214.4	3992.8	3742.2
22.5°	3750.4	3746.9	3760.8	3796.8	3872.2	3988.2	4342.0	4700.4	4462.6	4201.6	3896.5
25°	4050.8	4063.6	4039.2	3998.6	4023.0	4104.2	4379.1	4911.5	4773.5	4469.6	4098.4
27.5°	4478.9	4466.1	4430.1	4335.0	4285.1	4319.9	4502.1	5138.9	5159.8	4822.2	4365.2
30°	4905.7	4895.3	4860.5	4744.5	4642.4	4613.4	4741.0	5399.9	5620.3	5245.6	4692.3
32.5°	5348.9	5337.3	5304.8	5188.8	5065.8	4998.5	5080.9	5701.5	6163.2	5751.4	5077.4
35°	5895.2	5873.2	5804.8	5643.5	5522.9	5470.7	5509.0	6080.8	6789.6	6350.0	5544.9
37.5°	6409.1	6442.8	6373.2	6150.4	5993.8	5975.3	6018.2	6543.7	7464.8	7019.3	6082.0
40°	6925.3	6931.1	6868.5	6686.4	6525.1	6495.0	6602.9	7105.1	8261.7	7819.7	6735.1
42.5°	7459.0	7470.6	7365.0	7196.8	7078.5	7084.3	7207.2	7762.9	9175.8	8762.8	7486.8
45°	8091.2	8108.6	7992.6	7772.2	7664.3	7881.2	7830.2	8500.7	10178.0	9834.7	8349.8
47.5°	8752.4	8779.1	8690.9	8484.4	8349.8	8648.0	8453.1	9318.5	11256.9	10984.3	9297.6
50°	9113.1	9151.4	9237.3	9222.2	9193.2	9143.3	9147.9	10195.4	12369.3	12181.4	10272.0
52.5°	8919.4	8918.3	9231.5	9612.0	10018.0	10048.1	9994.8	11120.0	13408.7	13351.9	11189.6
55°	8033.2	8093.5	8567.9	9304.5	10413.5	11106.1	11263.8	12179.1	14429.5	14495.7	12121.1
57.5°	6557.6	6607.5	7247.8	8274.4	9879.9	11734.8	13068.8	13718.4	15571.0	15879.6	13361.1
60°	4447.5	4507.9	5186.5	6419.6	8443.8	11384.5	14786.8	16465.4	16937.5	17639.3	15101.2
62.5°	2613.5	2668.1	3221.4	4049.6	5945.1	9757.0	15540.8	20373.5	19107.9	20294.6	17755.3
65°	1799.2	1836.3	2105.4	2520.7	3416.3	6571.5	14605.9	23071.7	22447.6	23584.4	20832.9
67.5°	1447.7	1443.1	1656.5	1939.6	2199.4	3388.4	11044.6	22766.6	25384.8	25859.2	22430.2
70°	1192.5	1187.9	1332.9	1567.2	1757.4	1908.2	6015.9	19212.3	24786.2	24978.8	20959.3
72.5°	997.6	1002.3	1095.1	1269.1	1441.9	1437.3	2643.7	13515.4	19498.8	20830.5	16707.8
75°	842.2	844.5	906.0	1028.9	1170.5	1157.7	1433.8	7322.1	11334.6	12261.4	9261.6
77.5°	716.9	719.2	758.7	827.1	928.0	923.4	1046.3	3163.4	4728.3	4670.3	3168.0
80°	639.2	639.2	657.7	670.5	726.2	705.3	776.1	1519.6	1998.7	1845.6	1264.4
82.5°	501.1	503.5	617.1	612.5	571.9	545.2	545.2	895.5	1059.1	979.1	740.1
85°	281.9	280.7	397.9	480.2	503.5	384.0	380.5	501.1	576.5	508.1	358.4
87.5°	120.6	123.0	184.4	213.4	285.4	239.0	235.5	258.7	293.5	254.0	165.9
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°	3273.6	3273.6	3273.6	3273.6	3273.6	3273.6	3273.6	3273.6	3273.6	3273.6	3273.6
2.5°	3274.7	3244.6	3178.5	3096.1	3021.9	2973.1	2929.1	2865.3	2868.7	2824.7	2792.2
5°	3272.4	3209.8	3056.7	2874.5	2699.4	2572.9	2477.8	2392.0	2371.1	2330.5	2306.1
7.5°	3274.7	3172.7	2915.1	2624.0	2407.0	2247.0	2165.8	2120.5	2110.1	2096.2	2097.3
10°	3282.9	3139.0	2759.7	2389.6	2162.3	2056.7	2037.0	2050.9	2067.2	2071.8	2073.0
12.5°	3301.4	3108.9	2589.2	2180.8	2009.2	1976.7	2010.3	2057.9	2089.2	2104.3	2103.1
15°	3343.2	3085.7	2425.6	2017.3	1924.5	1941.9	2004.5	2071.8	2117.0	2137.9	2139.1
17.5°	3388.4	3052.0	2257.4	1892.0	1861.8	1905.9	1983.6	2062.5	2118.2	2141.4	2146.0
20°	3447.6	3010.3	2081.1	1798.0	1802.7	1852.6	1925.6	2004.5	2066.0	2085.7	2095.0
22.5°	3525.3	2965.0	1926.8	1721.5	1735.4	1773.7	1830.5	1899.0	1952.3	1961.6	1969.7
25°	3629.7	2916.3	1803.8	1651.9	1657.7	1679.7	1718.0	1758.6	1795.7	1785.3	1793.4
27.5°	3770.1	2874.5	1712.2	1588.1	1577.6	1582.3	1602.0	1614.8	1634.5	1605.5	1609.0
30°	3934.8	2829.3	1641.4	1532.4	1503.4	1495.3	1499.9	1506.9	1522.0	1482.5	1476.7
32.5°	4126.2	2774.8	1575.3	1483.7	1443.1	1426.8	1429.1	1447.7	1505.7	1481.3	1468.6
35°	4348.9	2713.3	1505.7	1430.3	1402.5	1379.3	1376.9	1434.9	1607.8	1592.7	1581.1
37.5°	4609.9	2651.8	1436.1	1370.0	1372.3	1346.8	1338.7	1404.8	1627.5	1568.4	1560.2
40°	4941.7	2619.3	1376.9	1306.2	1335.2	1331.7	1315.5	1349.1	1497.6	1389.7	1375.8
42.5°	5352.3	2624.0	1332.9	1237.7	1291.1	1328.2	1302.7	1303.9	1357.2	1276.0	1263.3
45°	5859.3	2678.5	1301.5	1183.2	1241.2	1324.7	1298.1	1279.5	1284.1	1241.2	1234.3
47.5°	6450.9	2791.0	1279.5	1138.0	1193.7	1312.0	1296.9	1272.5	1262.1	1238.9	1233.1
50°	7108.6	2954.6	1263.3	1095.1	1150.7	1291.1	1298.1	1265.6	1254.0	1244.7	1241.2
52.5°	7754.8	3141.3	1238.9	1057.9	1117.1	1265.6	1301.5	1258.6	1245.9	1238.9	1235.4
55°	8475.1	3374.5	1201.8	1026.6	1089.3	1233.1	1301.5	1248.2	1234.3	1235.4	1234.3
57.5°	9448.4	3751.5	1157.7	999.9	1055.6	1193.7	1279.5	1236.6	1219.2	1220.3	1221.5
60°	10969.2	4416.2	1104.3	973.3	1013.9	1147.3	1249.3	1211.1	1193.7	1198.3	1199.5
62.5°	13205.7	5391.8	1034.7	933.8	969.8	1097.4	1207.6	1178.6	1161.2	1172.8	1172.8
65°	15530.4	6252.5	948.9	883.9	923.4	1042.9	1155.4	1138.0	1120.6	1147.3	1146.1
67.5°	16155.6	6060.0	863.1	829.4	877.0	982.5	1092.7	1083.5	1074.2	1120.6	1118.3
70°	14351.8	4865.1	784.2	773.7	825.9	917.6	1025.5	1025.5	1019.7	1054.5	1046.3
72.5°	10934.4	3449.9	708.8	714.6	767.9	846.8	952.4	960.5	951.2	968.6	961.7
75°	5853.5	1974.4	633.4	649.6	696.0	774.9	871.2	879.3	873.5	872.3	875.8
77.5°	1945.4	965.1	554.5	580.0	620.6	700.7	786.5	799.3	785.3	783.0	781.9
80°	866.5	606.7	467.5	501.1	537.1	616.0	697.2	707.6	692.5	713.4	686.7
82.5°	556.8	399.0	374.7	411.8	446.6	531.3	607.9	610.2	596.3	692.5	590.5
85°	270.3	247.1	281.9	315.5	345.7	417.6	503.5	504.6	469.8	428.0	413.0
87.5°	134.6	143.8	187.9	218.1	233.2	286.5	366.6	359.6	344.5	313.2	288.8
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)