

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: P192153

Luminaire Tested: **GLEON-AF-05-LED-E1-T2-7050-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192153  
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-05-LED-E1-T2-7050-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19235 lumens  
Efficiency: N/A  
Efficacy: 118.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B3 - U0 - G3

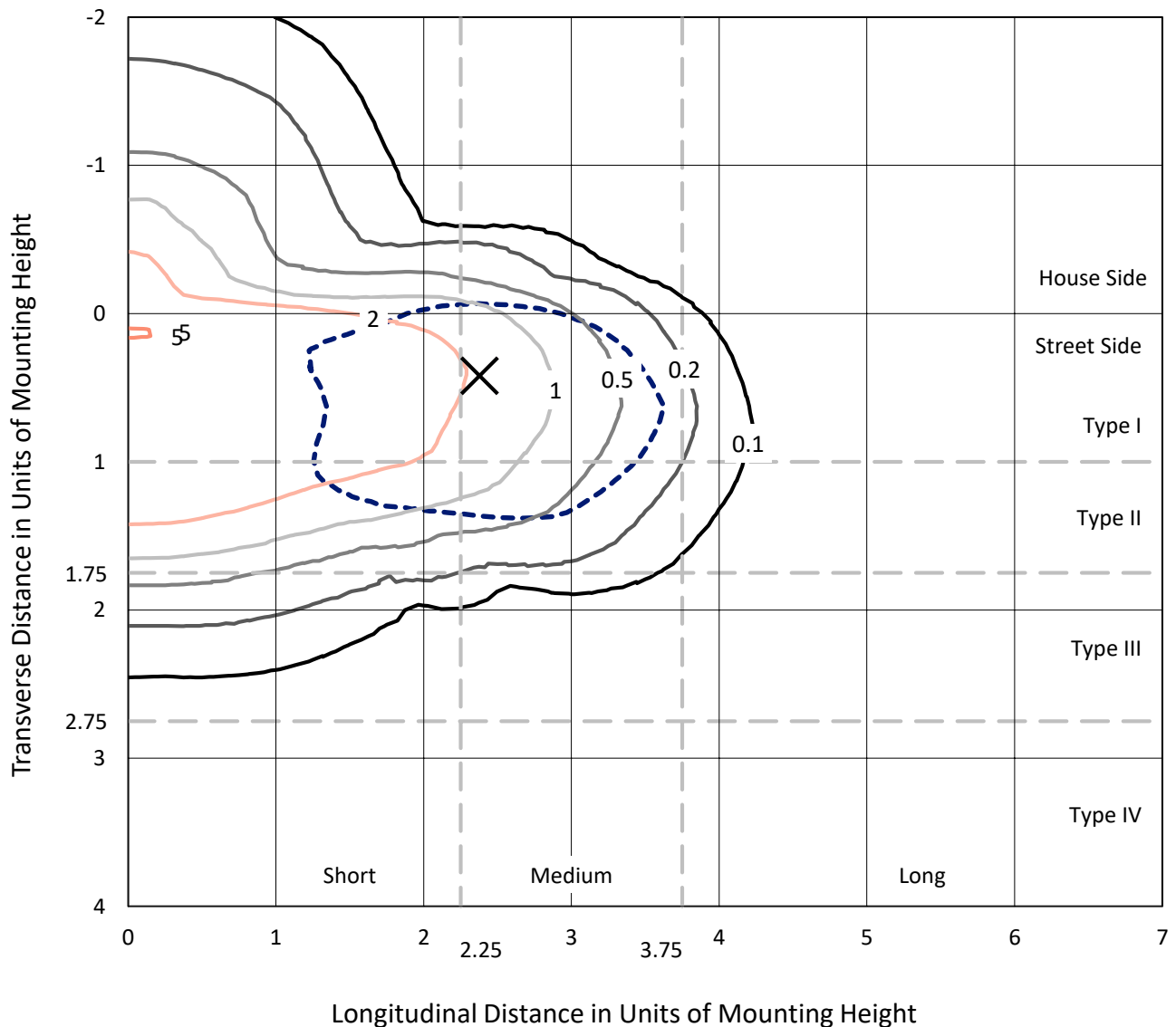
Input Watts (W): 162  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

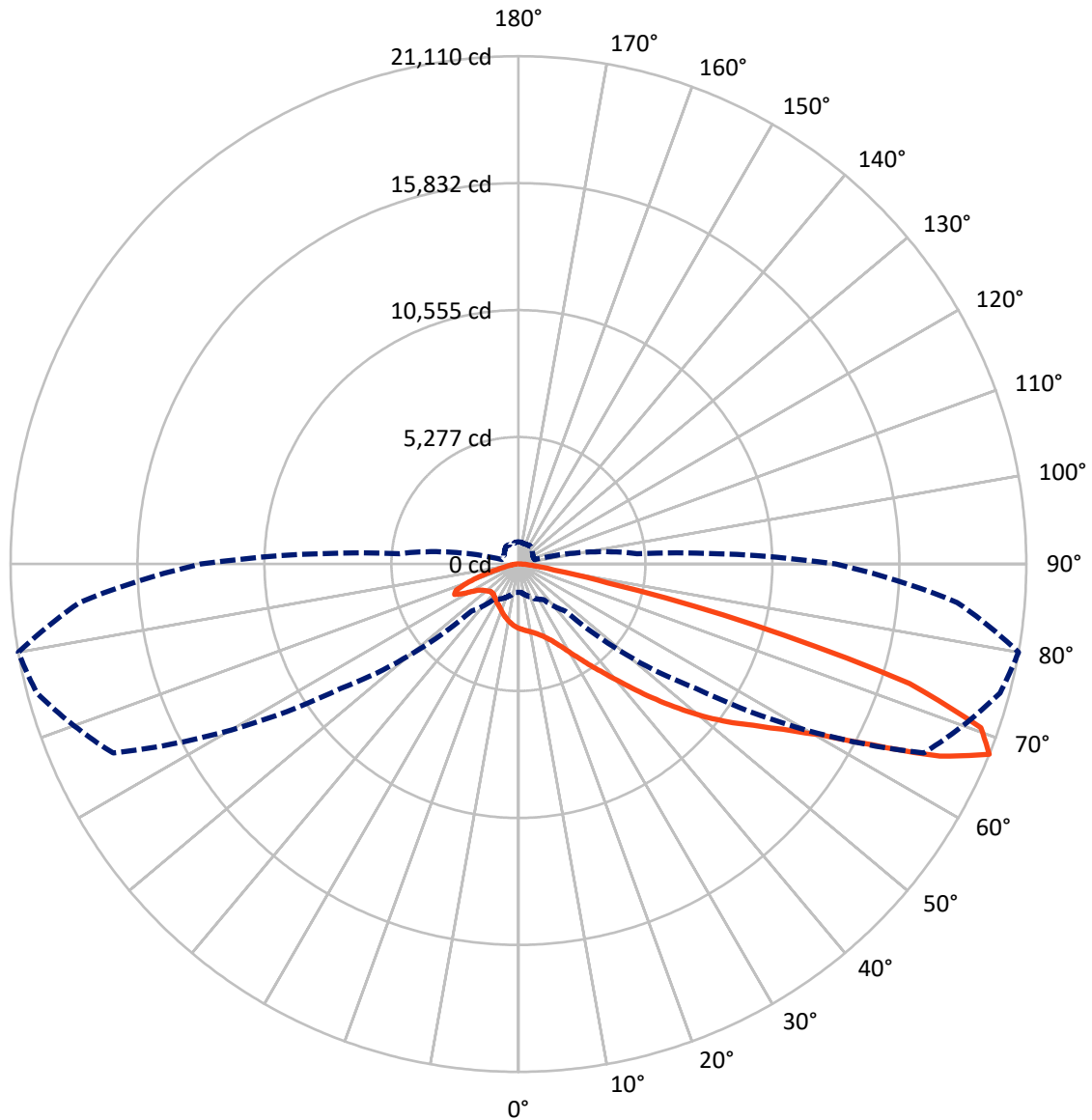
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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	3542.4	0.0	3542.4
	% Fixture	18.4	0.0	18.4
<b>Street Side</b>	Lumens	15692.6	0.0	15692.6
	% Fixture	81.6	0.0	81.6
<b>Total</b>	Lumens	19235.0	0.0	19235.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	246.5	1.3
10°-20°	710.1	3.7
20°-30°	1175.4	6.1
30°-40°	1922.6	10.0
40°-50°	3104.3	16.1
50°-60°	4481.7	23.3
60°-70°	4945.8	25.7
70°-80°	2279.7	11.9
80°-90°	368.7	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°	19235.0	100.0
0°-180°	19235.0	100.0



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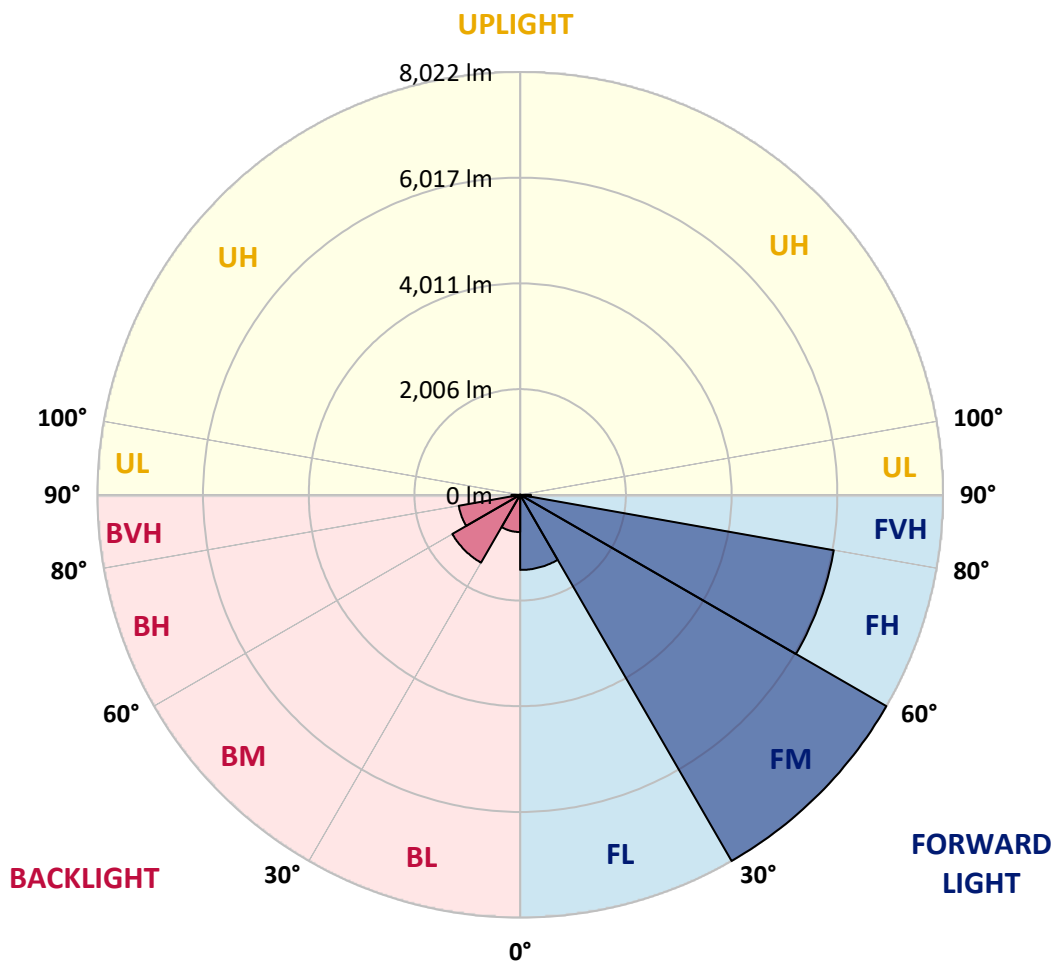
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1425.3	7.4			
FM (30°-60°)	8022.4	41.7			
FH (60°-80°)	6042.2	31.4			G3/7500
FVH (80°-90°)	202.7	1.1			G2/225
BL (0°-30°)	706.7	3.7	B2/1000		
BM (30°-60°)	1486.2	7.7	B2/2500		
BH (60°-80°)	1183.4	6.2	B3/2500		G3/2500
BVH (80°-90°)	166.0	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°	2672.3	2672.3	2672.3	2672.3	2672.3	2672.3	2672.3	2672.3	2672.3	2672.3	2672.3
2.5°	2923.2	2906.2	2909.0	2904.3	2890.1	2865.5	2839.0	2790.7	2740.5	2714.0	2693.1
5°	3167.6	3162.8	3156.2	3141.0	3105.1	3053.9	2990.5	2905.3	2813.4	2765.1	2718.7
7.5°	3350.3	3347.5	3339.0	3329.5	3294.4	3232.9	3137.3	3016.0	2882.5	2816.2	2744.3
10°	3365.5	3370.2	3376.8	3402.4	3407.1	3374.0	3276.5	3129.7	2954.5	2869.3	2777.4
12.5°	3236.7	3247.1	3272.7	3338.0	3407.1	3447.9	3397.7	3249.0	3038.8	2935.6	2819.1
15°	3066.2	3071.9	3103.2	3193.1	3317.2	3443.1	3490.5	3380.6	3147.7	3020.8	2881.6
17.5°	2993.3	2996.2	3017.9	3077.6	3193.1	3373.0	3542.6	3523.6	3281.2	3126.8	2958.3
20°	2956.4	2963.0	2994.3	3053.0	3125.9	3283.1	3550.1	3678.0	3440.3	3259.4	3054.9
22.5°	3061.5	3058.7	3070.0	3099.4	3160.9	3255.6	3544.4	3837.1	3642.9	3429.9	3180.8
25°	3306.8	3317.2	3297.3	3264.1	3284.0	3350.3	3574.7	4009.4	3896.7	3648.6	3345.6
27.5°	3656.2	3645.8	3616.4	3538.8	3498.0	3526.5	3675.1	4195.0	4212.0	3936.5	3563.4
30°	4004.7	3996.1	3967.7	3873.0	3789.7	3766.0	3870.2	4408.1	4588.0	4282.1	3830.4
32.5°	4366.4	4356.9	4330.4	4235.7	4135.3	4080.4	4147.7	4654.3	5031.2	4695.0	4144.8
35°	4812.4	4794.4	4738.6	4606.9	4508.4	4465.8	4497.1	4963.9	5542.5	5183.6	4526.4
37.5°	5231.9	5259.4	5202.6	5020.7	4892.9	4877.8	4912.8	5341.8	6093.6	5730.0	4964.9
40°	5653.3	5658.0	5606.9	5458.2	5326.6	5302.0	5390.1	5800.1	6744.2	6383.4	5498.0
42.5°	6088.9	6098.4	6012.2	5874.9	5778.3	5783.0	5883.4	6337.0	7490.4	7153.3	6111.6
45°	6605.0	6619.2	6524.5	6344.6	6256.5	6433.6	6391.9	6939.3	8308.6	8028.3	6816.2
47.5°	7144.8	7166.5	7094.6	6926.0	6816.2	7059.5	6900.4	7606.9	9189.2	8966.7	7589.8
50°	7439.3	7470.5	7540.6	7528.3	7504.6	7463.9	7467.7	8322.8	10097.4	9944.0	8385.3
52.5°	7281.1	7280.2	7535.9	7846.5	8177.9	8202.5	8158.9	9077.5	10945.8	10899.4	9134.3
55°	6557.6	6606.9	6994.2	7595.5	8500.8	9066.1	9194.9	9942.1	11779.1	11833.1	9894.7
57.5°	5353.1	5393.8	5916.6	6754.6	8065.2	9579.4	10668.4	11198.7	12710.9	12962.8	10907.0
60°	3630.6	3679.9	4233.8	5240.4	6892.9	9293.4	12070.8	13441.0	13826.5	14399.4	12327.4
62.5°	2133.5	2178.0	2629.7	3305.8	4853.1	7964.8	12686.3	16631.3	15598.2	16566.9	14494.1
65°	1468.7	1499.0	1718.7	2057.7	2788.8	5364.5	11923.1	18833.9	18324.5	19252.5	17006.3
67.5°	1181.8	1178.0	1352.2	1583.3	1795.4	2766.0	9015.9	18584.9	20722.2	21109.5	18310.3
70°	973.5	969.7	1088.0	1279.3	1434.6	1557.7	4910.9	15683.4	20233.5	20390.7	17109.5
72.5°	814.4	818.2	893.9	1036.0	1177.1	1173.3	2158.1	11032.9	15917.3	17004.4	13639.0
75°	687.5	689.4	739.6	839.9	955.5	945.1	1170.4	5977.2	9252.7	10009.3	7560.5
77.5°	585.2	587.1	619.3	675.2	757.6	753.8	854.2	2582.3	3859.8	3812.4	2586.1
80°	521.8	521.8	536.9	547.3	592.8	575.7	633.5	1240.5	1631.6	1506.6	1032.2
82.5°	409.1	411.0	503.8	500.0	466.8	445.1	445.1	731.0	864.6	799.2	604.2
85°	230.1	229.2	324.8	392.0	411.0	313.4	310.6	409.1	470.6	414.8	292.6
87.5°	98.5	100.4	150.6	174.2	233.0	195.1	192.2	211.2	239.6	207.4	135.4
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°	2672.3	2672.3	2672.3	2672.3	2672.3	2672.3	2672.3	2672.3	2672.3	2672.3	2672.3
2.5°	2673.2	2648.6	2594.7	2527.4	2466.8	2427.0	2391.1	2339.0	2341.8	2305.8	2279.3
5°	2671.4	2620.2	2495.2	2346.5	2203.6	2100.3	2022.7	1952.6	1935.6	1902.4	1882.5
7.5°	2673.2	2589.9	2379.7	2142.0	1964.9	1834.2	1768.0	1731.0	1722.5	1711.1	1712.1
10°	2679.9	2562.5	2252.8	1950.7	1765.1	1678.9	1662.8	1674.2	1687.5	1691.3	1692.2
12.5°	2695.0	2537.8	2113.6	1780.3	1640.1	1613.6	1641.1	1679.9	1705.5	1717.8	1716.8
15°	2729.1	2518.9	1980.1	1646.8	1571.0	1585.2	1636.3	1691.3	1728.2	1745.2	1746.2
17.5°	2766.0	2491.4	1842.8	1544.5	1519.9	1555.8	1619.3	1683.7	1729.1	1748.1	1751.9
20°	2814.3	2457.3	1698.8	1467.8	1471.6	1512.3	1571.9	1636.3	1686.5	1702.6	1710.2
22.5°	2877.8	2420.4	1572.9	1405.3	1416.6	1447.9	1494.3	1550.2	1593.7	1601.3	1607.9
25°	2963.0	2380.6	1472.5	1348.5	1353.2	1371.2	1402.4	1435.6	1465.9	1457.4	1464.0
27.5°	3077.6	2346.5	1397.7	1296.4	1287.9	1291.6	1307.7	1318.2	1334.3	1310.6	1313.4
30°	3212.1	2309.6	1339.9	1250.9	1227.3	1220.6	1224.4	1230.1	1242.4	1210.2	1205.5
32.5°	3368.3	2265.1	1286.0	1211.2	1178.0	1164.8	1166.6	1181.8	1229.1	1209.3	1198.8
35°	3550.1	2214.9	1229.1	1167.6	1144.9	1125.9	1124.0	1171.4	1312.5	1300.2	1290.7
37.5°	3763.2	2164.7	1172.3	1118.4	1120.2	1099.4	1092.8	1146.8	1328.6	1280.3	1273.7
40°	4034.0	2138.2	1124.0	1066.3	1089.9	1087.1	1073.8	1101.3	1222.5	1134.4	1123.1
42.5°	4369.2	2142.0	1088.0	1010.4	1054.0	1084.3	1063.4	1064.4	1107.9	1041.6	1031.2
45°	4783.1	2186.5	1062.5	965.9	1013.2	1081.4	1059.6	1044.5	1048.3	1013.2	1007.6
47.5°	5266.0	2278.4	1044.5	929.0	974.4	1071.0	1058.7	1038.8	1030.3	1011.3	1006.6
50°	5802.9	2411.9	1031.2	893.9	939.4	1054.0	1059.6	1033.1	1023.7	1016.1	1013.2
52.5°	6330.4	2564.3	1011.3	863.6	911.9	1033.1	1062.5	1027.4	1017.0	1011.3	1008.5
55°	6918.4	2754.7	981.0	838.1	889.2	1006.6	1062.5	1018.9	1007.6	1008.5	1007.6
57.5°	7712.9	3062.4	945.1	816.3	861.7	974.4	1044.5	1009.5	995.2	996.2	997.1
60°	8954.4	3605.0	901.5	794.5	827.6	936.5	1019.9	988.6	974.4	978.2	979.1
62.5°	10780.1	4401.4	844.7	762.3	791.7	895.8	985.8	962.1	947.9	957.4	957.4
65°	12677.8	5104.1	774.6	721.6	753.8	851.3	943.2	929.0	914.8	936.5	935.6
67.5°	13188.2	4946.9	704.5	677.1	715.9	802.1	892.0	884.5	876.9	914.8	912.9
70°	11715.7	3971.5	640.1	631.6	674.2	749.0	837.1	837.1	832.4	860.8	854.2
72.5°	8926.0	2816.2	578.6	583.3	626.9	691.3	777.4	784.1	776.5	790.7	785.0
75°	4778.3	1611.7	517.0	530.3	568.2	632.6	711.2	717.8	713.1	712.1	714.9
77.5°	1588.0	787.9	452.6	473.5	506.6	572.0	642.0	652.5	641.1	639.2	638.2
80°	707.4	495.3	381.6	409.1	438.4	502.8	569.1	577.6	565.3	582.4	560.6
82.5°	454.5	325.8	305.9	336.2	364.6	433.7	496.2	498.1	486.7	565.3	482.0
85°	220.6	201.7	230.1	257.6	282.2	340.9	411.0	411.9	383.5	349.4	337.1
87.5°	109.8	117.4	153.4	178.0	190.3	233.9	299.2	293.6	281.2	255.7	235.8
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)