

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: P193903

Luminaire Tested: **GLEON-AF-05-LED-E1-T2-8030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193903  
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-T2-8030-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19248 lumens  
Efficiency: N/A  
Efficacy: 91.7 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

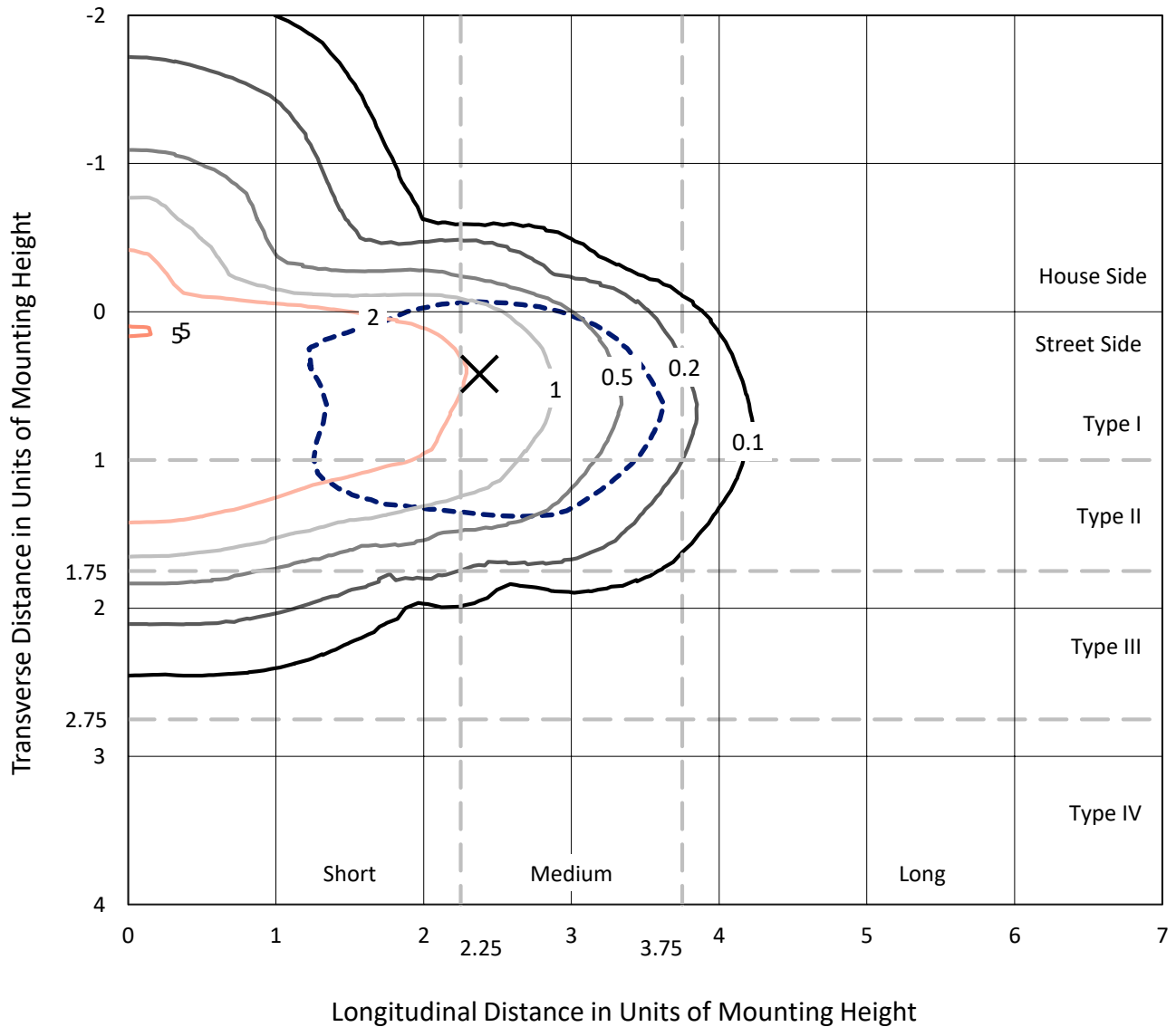
Input Watts (W): 210  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

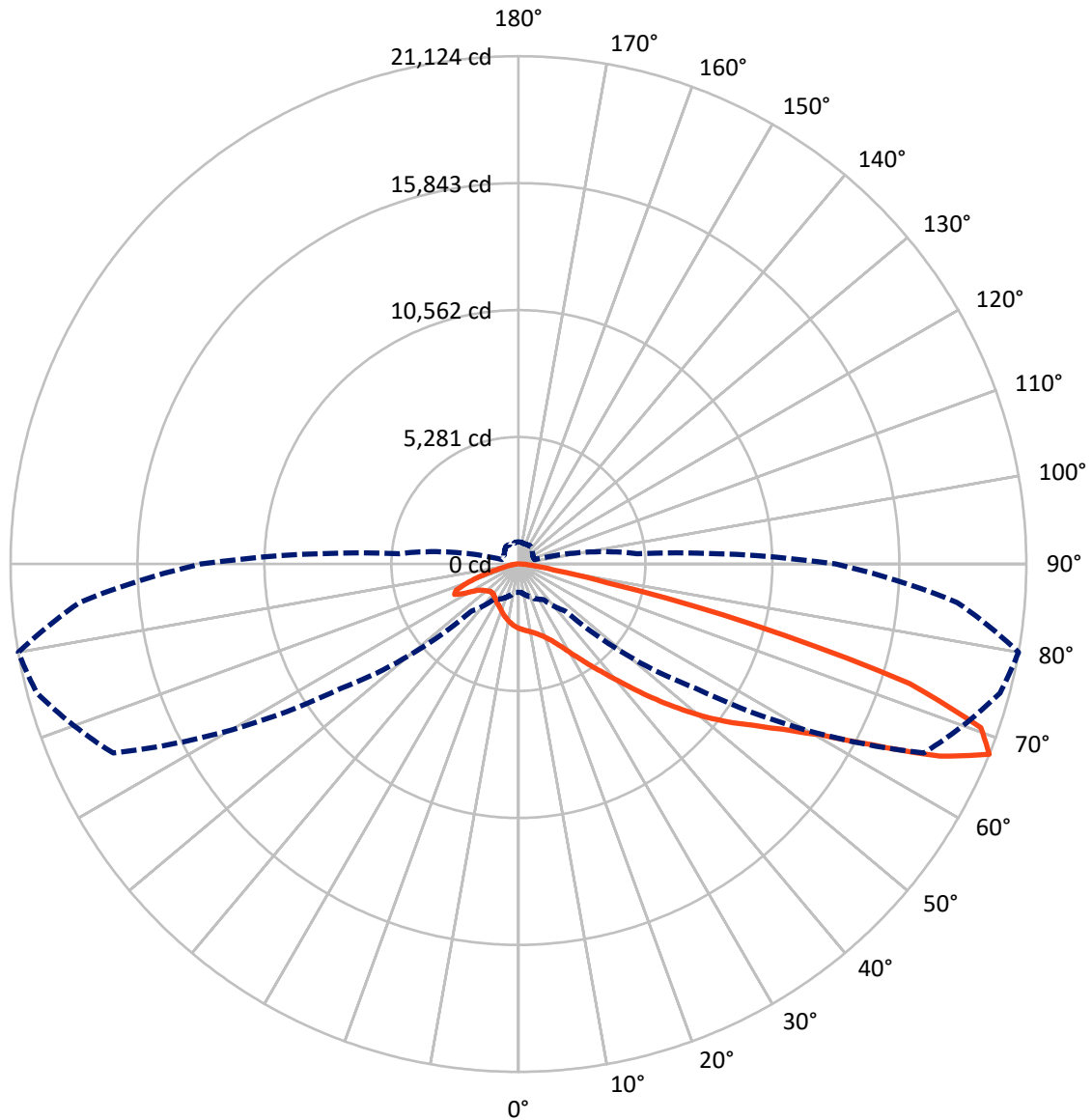
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc  
 Type II - Medium - Full Cutoff

REPORT NUMBER: P193903  
CATALOG NUMBER: GLEON-AF-05-LED-E1-T2-8030-800

### Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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CATALOG NUMBER: GLEON-AF-05-LED-E1-T2-8030-800

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3544.7	0.0	3544.7
	% Fixture	18.4	0.0	18.4
<b>Street Side</b>	Lumens	15703.3	0.0	15703.3
	% Fixture	81.6	0.0	81.6
<b>Total</b>	Lumens	19248.0	0.0	19248.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	246.7	1.3
10°-20°	710.6	3.7
20°-30°	1176.2	6.1
30°-40°	1923.9	10.0
40°-50°	3106.4	16.1
50°-60°	4484.7	23.3
60°-70°	4949.2	25.7
70°-80°	2281.3	11.9
80°-90°	369.0	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°	19248.0	100.0
0°-180°	19248.0	100.0



REPORT NUMBER: P193903

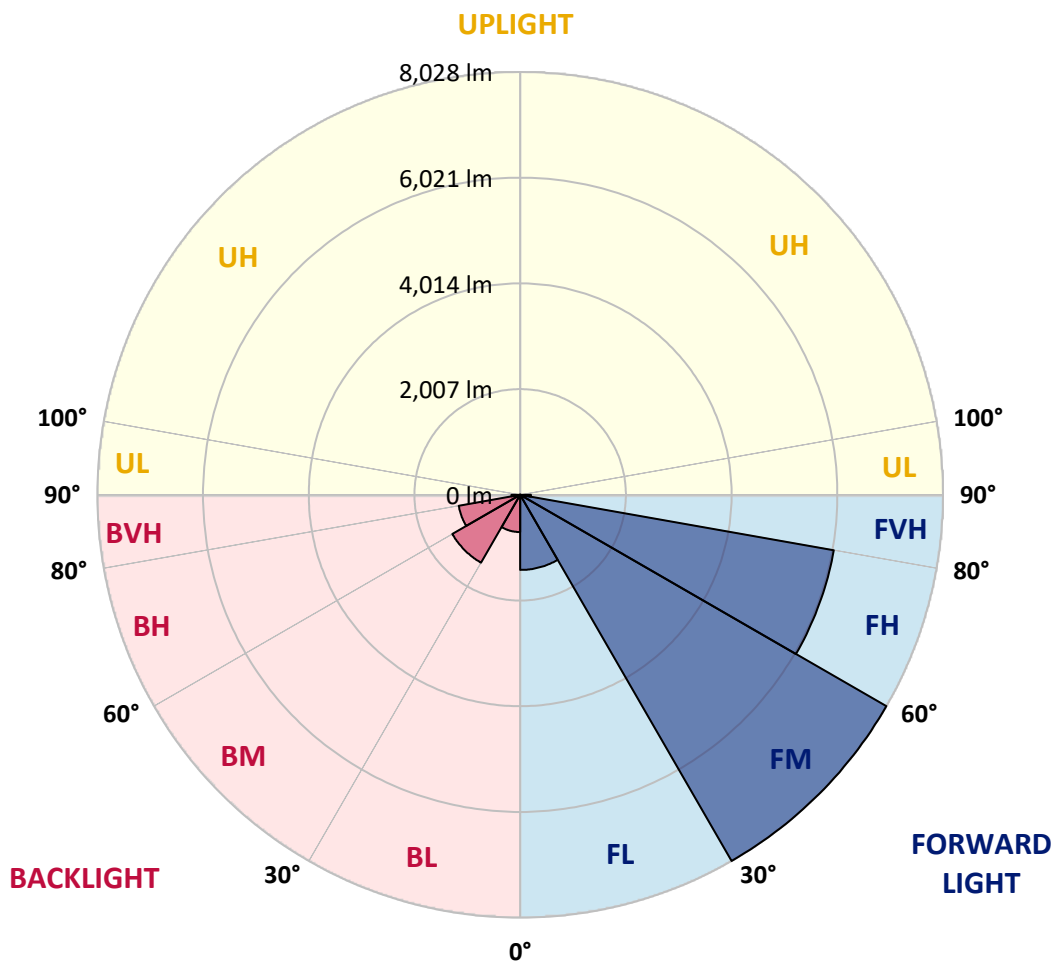
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1426.2	7.4			
FM (30°-60°)	8027.9	41.7			
FH (60°-80°)	6046.3	31.4			G3/7500
FVH (80°-90°)	202.9	1.1			G2/225
BL (0°-30°)	707.2	3.7	B2/1000		
BM (30°-60°)	1487.2	7.7	B2/2500		
BH (60°-80°)	1184.2	6.2	B3/2500		G3/2500
BVH (80°-90°)	166.1	0.9			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Medium





REPORT NUMBER: P193903

CATALOG NUMBER: GLEON-AF-05-LED-E1-T2-8030-800

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	2674.1	2674.1	2674.1	2674.1	2674.1	2674.1	2674.1	2674.1	2674.1	2674.1	2674.1
2.5°	2925.2	2908.2	2911.0	2906.3	2892.1	2867.4	2840.9	2792.6	2742.3	2715.8	2695.0
5°	3169.7	3165.0	3158.3	3143.2	3107.2	3056.0	2992.5	2907.2	2815.3	2767.0	2720.5
7.5°	3352.6	3349.7	3341.2	3331.7	3296.7	3235.1	3139.4	3018.1	2884.5	2818.1	2746.1
10°	3367.7	3372.5	3379.1	3404.7	3409.4	3376.3	3278.7	3131.8	2956.5	2871.2	2779.3
12.5°	3238.9	3249.3	3274.9	3340.3	3409.4	3450.2	3400.0	3251.2	3040.8	2937.5	2821.0
15°	3068.3	3074.0	3105.3	3195.3	3319.4	3445.4	3492.8	3382.9	3149.8	3022.8	2883.5
17.5°	2995.3	2998.2	3020.0	3079.7	3195.3	3375.3	3544.9	3526.0	3283.4	3129.0	2960.3
20°	2958.4	2965.0	2996.3	3055.0	3128.0	3285.3	3552.5	3680.5	3442.6	3261.6	3056.9
22.5°	3063.6	3060.7	3072.1	3101.5	3163.1	3257.8	3546.8	3839.6	3645.4	3432.2	3183.0
25°	3309.0	3319.4	3299.5	3266.4	3286.3	3352.6	3577.2	4012.1	3899.3	3651.1	3347.8
27.5°	3658.7	3648.2	3618.9	3541.2	3500.4	3528.8	3677.6	4197.8	4214.9	3939.1	3565.8
30°	4007.4	3998.8	3970.4	3875.7	3792.3	3768.6	3872.8	4411.0	4591.1	4285.0	3833.0
32.5°	4369.4	4359.9	4333.3	4238.6	4138.1	4083.2	4150.5	4657.4	5034.6	4698.2	4147.6
35°	4815.7	4797.7	4741.8	4610.0	4511.5	4468.8	4500.1	4967.3	5546.3	5187.1	4529.5
37.5°	5235.5	5262.9	5206.1	5024.1	4896.2	4881.1	4916.1	5345.4	6097.8	5733.9	4968.2
40°	5657.1	5661.9	5610.7	5461.9	5330.2	5305.6	5393.7	5804.0	6748.8	6387.7	5501.7
42.5°	6093.0	6102.5	6016.3	5878.9	5782.2	5786.9	5887.4	6341.3	7495.5	7158.1	6115.8
45°	6609.5	6623.7	6528.9	6348.9	6260.7	6437.9	6396.3	6944.0	8314.2	8033.7	6820.8
47.5°	7149.6	7171.4	7099.4	6930.7	6820.8	7064.3	6905.1	7612.0	9195.4	8972.8	7595.0
50°	7444.3	7475.6	7545.7	7533.4	7509.7	7468.9	7472.7	8328.4	10104.2	9950.7	8390.9
52.5°	7286.0	7285.1	7540.9	7851.8	8183.4	8208.0	8164.5	9083.6	10953.2	10906.8	9140.5
55°	6562.1	6611.4	6998.9	7600.6	8506.5	9072.3	9201.1	9948.8	11787.1	11841.1	9901.4
57.5°	5356.7	5397.5	5920.6	6759.2	8070.6	9585.8	10675.6	11206.2	12719.5	12971.6	10914.4
60°	3633.1	3682.3	4236.7	5244.0	6897.5	9299.7	12079.0	13450.1	13835.8	14409.1	12335.8
62.5°	2134.9	2179.5	2631.5	3308.0	4856.4	7970.2	12694.9	16642.6	15608.7	16578.1	14503.9
65°	1469.7	1500.0	1719.9	2059.1	2790.7	5368.1	11931.1	18846.7	18336.9	19265.5	17017.8
67.5°	1182.6	1178.8	1353.2	1584.4	1796.6	2767.9	9022.0	18597.5	20736.2	21123.7	18322.7
70°	974.1	970.3	1088.8	1280.2	1435.6	1558.8	4914.2	15694.0	20247.2	20404.5	17121.1
72.5°	814.9	818.7	894.5	1036.7	1177.9	1174.1	2159.6	11040.4	15928.1	17015.9	13648.2
75°	688.0	689.8	740.1	840.5	956.1	945.7	1171.2	5981.2	9258.9	10016.1	7565.6
77.5°	585.6	587.5	619.7	675.6	758.1	754.3	854.7	2584.1	3862.4	3815.0	2587.9
80°	522.1	522.1	537.3	547.7	593.2	576.1	633.9	1241.3	1632.7	1507.6	1032.9
82.5°	409.4	411.3	504.1	500.3	467.2	445.4	445.4	731.5	865.2	799.8	604.6
85°	230.3	229.3	325.0	392.3	411.3	313.7	310.8	409.4	471.0	415.0	292.8
87.5°	98.5	100.4	150.7	174.4	233.1	195.2	192.4	211.3	239.7	207.5	135.5
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°	2674.1	2674.1	2674.1	2674.1	2674.1	2674.1	2674.1	2674.1	2674.1	2674.1	2674.1
2.5°	2675.1	2650.4	2596.4	2529.1	2468.5	2428.7	2392.7	2340.6	2343.4	2307.4	2280.9
5°	2673.2	2622.0	2496.9	2348.1	2205.0	2101.8	2024.1	1953.9	1936.9	1903.7	1883.8
7.5°	2675.1	2591.7	2381.3	2143.5	1966.3	1835.5	1769.2	1732.2	1723.7	1712.3	1713.2
10°	2681.7	2564.2	2254.3	1952.0	1766.3	1680.1	1664.0	1675.3	1688.6	1692.4	1693.3
12.5°	2696.8	2539.5	2115.0	1781.5	1641.2	1614.7	1642.2	1681.0	1706.6	1718.9	1718.0
15°	2731.0	2520.6	1981.4	1647.9	1572.1	1586.3	1637.4	1692.4	1729.4	1746.4	1747.4
17.5°	2767.9	2493.1	1844.0	1545.5	1520.9	1556.9	1620.4	1684.8	1730.3	1749.3	1753.0
20°	2816.2	2459.0	1700.0	1468.8	1472.6	1513.3	1573.0	1637.4	1687.7	1703.8	1711.4
22.5°	2879.7	2422.0	1574.0	1406.2	1417.6	1448.9	1495.3	1551.2	1594.8	1602.4	1609.0
25°	2965.0	2382.2	1473.5	1349.4	1354.1	1372.1	1403.4	1436.6	1466.9	1458.3	1465.0
27.5°	3079.7	2348.1	1398.6	1297.3	1288.7	1292.5	1308.6	1319.0	1335.2	1311.5	1314.3
30°	3214.2	2311.2	1340.8	1251.8	1228.1	1221.4	1225.2	1230.9	1243.2	1211.0	1206.3
32.5°	3370.6	2266.6	1286.8	1212.0	1178.8	1165.5	1167.4	1182.6	1230.0	1210.1	1199.7
35°	3552.5	2216.4	1230.0	1168.4	1145.6	1126.7	1124.8	1172.2	1313.4	1301.0	1291.6
37.5°	3765.7	2166.2	1173.1	1119.1	1121.0	1100.2	1093.5	1147.5	1329.5	1281.1	1274.5
40°	4036.7	2139.7	1124.8	1067.0	1090.7	1087.8	1074.6	1102.1	1223.3	1135.2	1123.8
42.5°	4372.2	2143.5	1088.8	1011.1	1054.7	1085.0	1064.1	1065.1	1108.7	1042.4	1031.9
45°	4786.3	2188.0	1063.2	966.5	1013.9	1082.2	1060.4	1045.2	1049.0	1013.9	1008.2
47.5°	5269.6	2279.9	1045.2	929.6	975.1	1071.7	1059.4	1039.5	1031.0	1012.0	1007.3
50°	5806.8	2413.5	1031.9	894.5	940.0	1054.7	1060.4	1033.8	1024.3	1016.8	1013.9
52.5°	6334.7	2566.1	1012.0	864.2	912.5	1033.8	1063.2	1028.1	1017.7	1012.0	1009.2
55°	6923.1	2756.5	981.7	838.6	889.8	1007.3	1063.2	1019.6	1008.2	1009.2	1008.2
57.5°	7718.1	3064.5	945.7	816.8	862.3	975.1	1045.2	1010.1	995.9	996.9	997.8
60°	8960.4	3607.5	902.1	795.0	828.2	937.2	1020.6	989.3	975.1	978.9	979.8
62.5°	10787.4	4404.4	845.3	762.8	792.2	896.4	986.4	962.8	948.5	958.0	958.0
65°	12686.4	5107.5	775.1	722.1	754.3	851.9	943.8	929.6	915.4	937.2	936.2
67.5°	13197.1	4950.2	705.0	677.5	716.4	802.6	892.6	885.1	877.5	915.4	913.5
70°	11723.6	3974.2	640.6	632.0	674.7	749.5	837.7	837.7	832.9	861.4	854.7
72.5°	8932.0	2818.1	579.0	583.7	627.3	691.7	778.0	784.6	777.0	791.2	785.6
75°	4781.6	1612.8	517.4	530.7	568.6	633.0	711.6	718.3	713.5	712.6	715.4
77.5°	1589.1	788.4	452.9	473.8	507.0	572.3	642.5	652.9	641.5	639.6	638.7
80°	707.9	495.6	381.9	409.4	438.7	503.2	569.5	578.0	565.7	582.8	561.0
82.5°	454.8	326.0	306.1	336.4	364.8	434.0	496.5	498.4	487.1	565.7	482.3
85°	220.8	201.8	230.3	257.7	282.4	341.1	411.3	412.2	383.8	349.7	337.3
87.5°	109.9	117.5	153.5	178.1	190.5	234.1	299.4	293.8	281.4	255.9	236.0
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)