

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: P192152

Luminaire Tested: **GLEON-AF-04-LED-E1-T2-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192152
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-T2-7050-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 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: 15525 lumens
Efficiency: N/A
Efficacy: 120.3 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

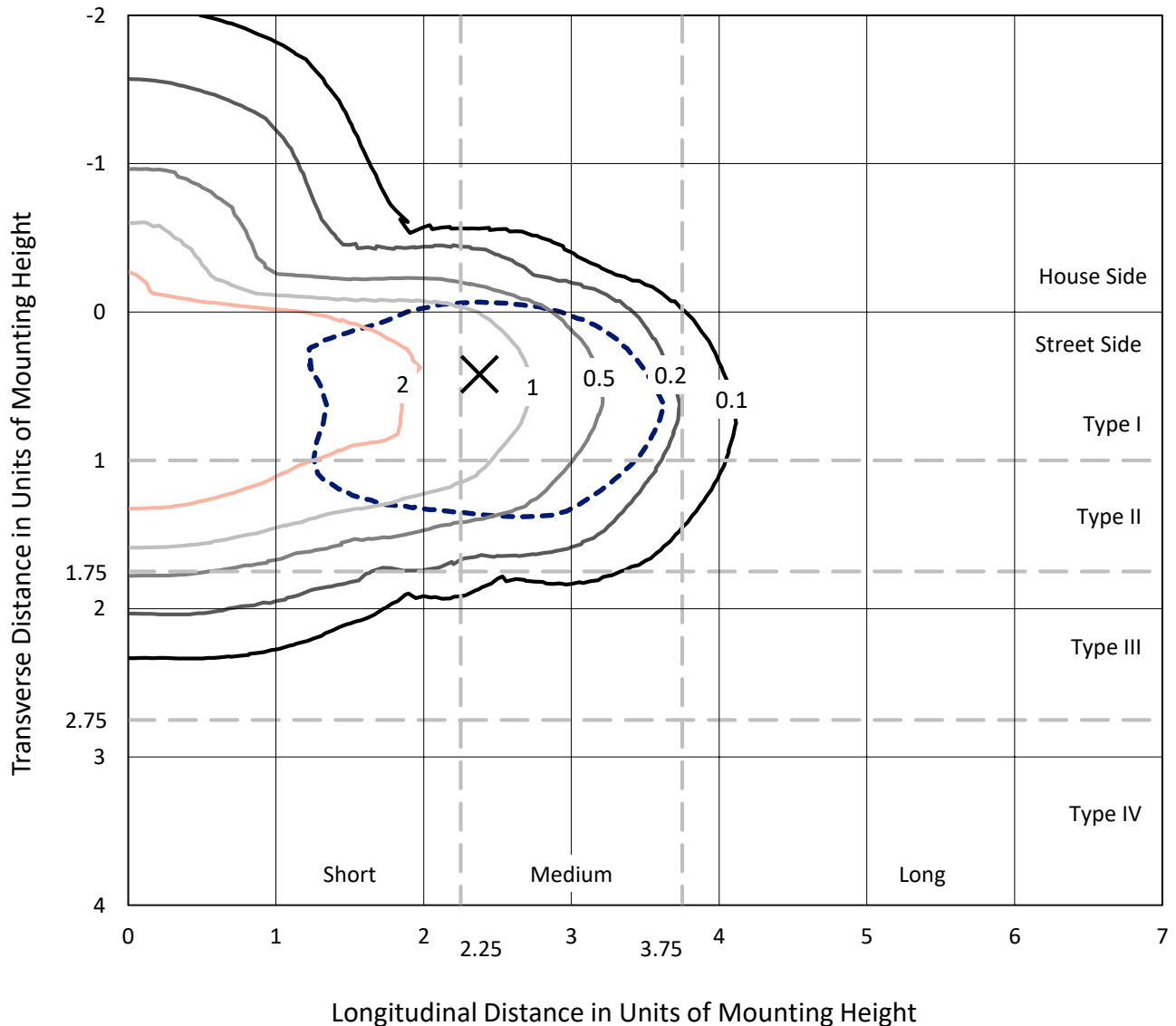
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P192152
 CATALOG NUMBER: GLEON-AF-04-LED-E1-T2-7050-600

Iso-Footcandle Lines of Horizontal Illumination

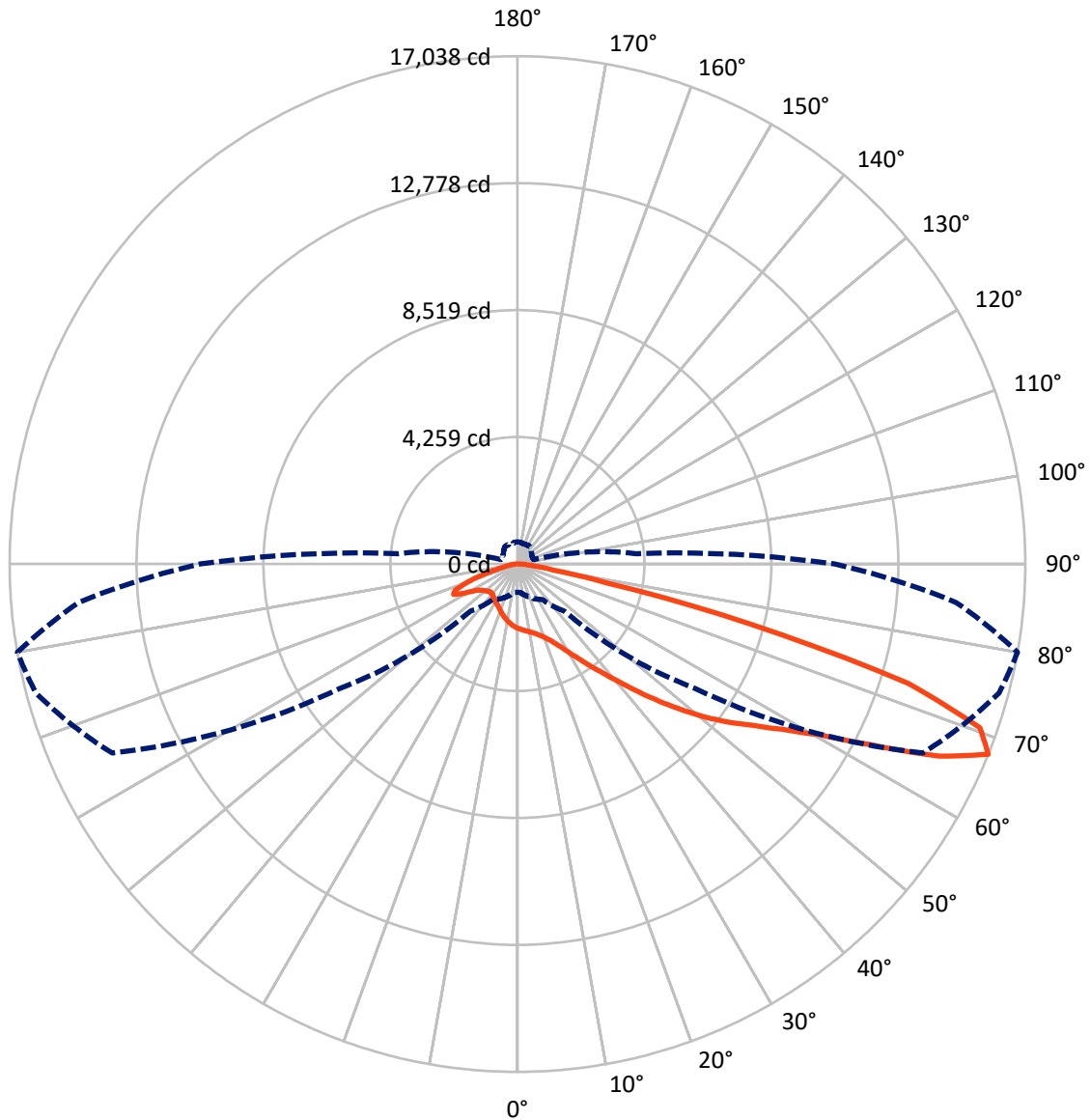
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type II - Medium - Full Cutoff

REPORT NUMBER: P192152
CATALOG NUMBER: GLEON-AF-04-LED-E1-T2-7050-600

Luminous Intensity Polar Plot



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

REPORT NUMBER: P192152

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2859.1	0.0	2859.1
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	12665.9	0.0	12665.9
	% Fixture	81.6	0.0	81.6
Total	Lumens	15525.0	0.0	15525.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.0	1.3
10°-20°	573.1	3.7
20°-30°	948.7	6.1
30°-40°	1551.8	10.0
40°-50°	2505.6	16.1
50°-60°	3617.3	23.3
60°-70°	3991.9	25.7
70°-80°	1840.0	11.9
80°-90°	297.6	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°	15525.0	100.0
0°-180°	15525.0	100.0



REPORT NUMBER: P192152

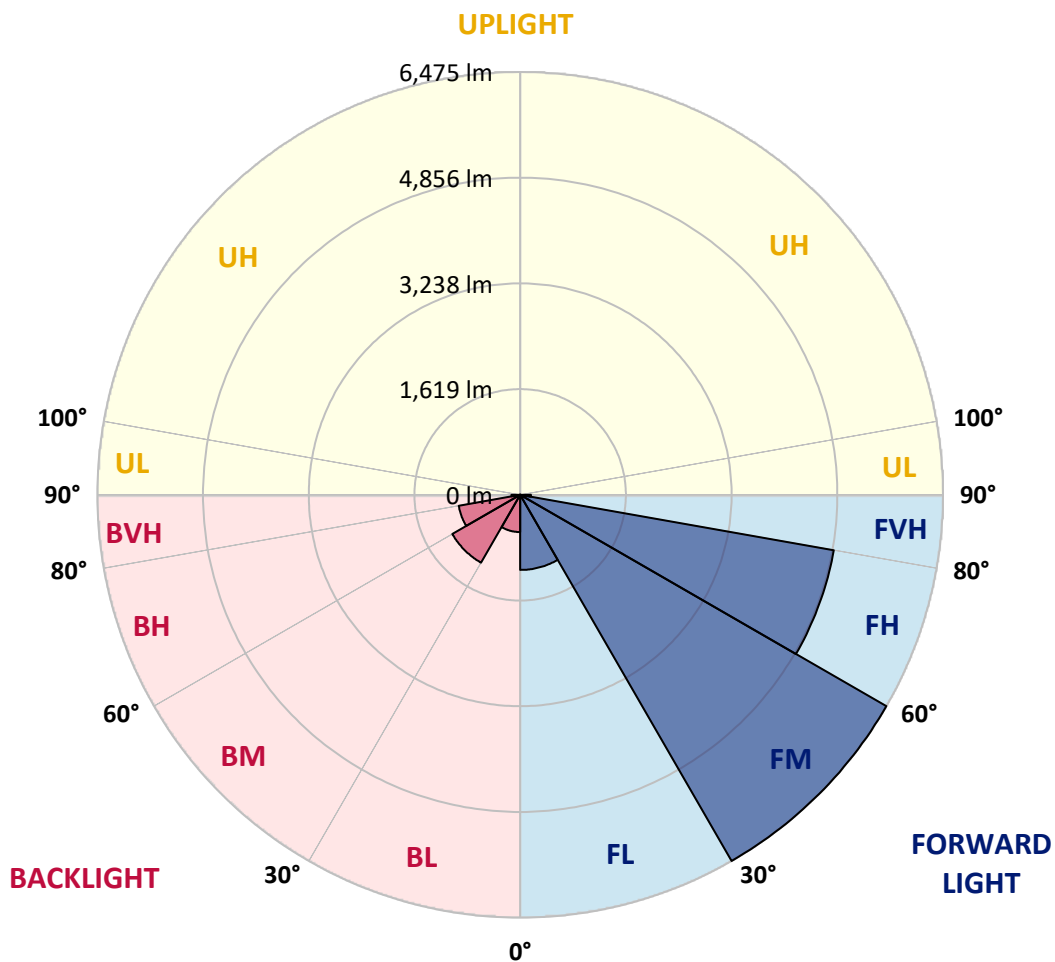
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1150.4	7.4			
FM (30°-60°)	6475.1	41.7			
FH (60°-80°)	4876.8	31.4			G2/5000
FVH (80°-90°)	163.6	1.1			G2/225
BL (0°-30°)	570.4	3.7	B2/1000		
BM (30°-60°)	1199.6	7.7	B2/2500		
BH (60°-80°)	955.1	6.2	B2/1000		G2/1000
BVH (80°-90°)	134.0	0.9			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium





REPORT NUMBER: P192152

CATALOG NUMBER: GLEON-AF-04-LED-E1-T2-7050-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	2156.9	2156.9	2156.9	2156.9	2156.9	2156.9	2156.9	2156.9	2156.9	2156.9	2156.9
2.5°	2359.4	2345.7	2348.0	2344.1	2332.7	2312.8	2291.4	2252.4	2211.9	2190.5	2173.7
5°	2556.6	2552.8	2547.4	2535.2	2506.2	2464.9	2413.7	2344.9	2270.8	2231.8	2194.3
7.5°	2704.1	2701.8	2694.9	2687.3	2659.0	2609.3	2532.1	2434.3	2326.6	2273.0	2215.0
10°	2716.3	2720.2	2725.5	2746.2	2750.0	2723.2	2644.5	2526.0	2384.6	2315.8	2241.7
12.5°	2612.4	2620.8	2641.4	2694.2	2750.0	2782.8	2742.3	2622.3	2452.7	2369.4	2275.3
15°	2474.8	2479.4	2504.6	2577.2	2677.4	2779.0	2817.2	2728.6	2540.6	2438.1	2325.8
17.5°	2416.0	2418.3	2435.8	2484.0	2577.2	2722.5	2859.3	2844.0	2648.3	2523.7	2387.7
20°	2386.2	2391.5	2416.7	2464.1	2523.0	2649.9	2865.4	2968.6	2776.7	2630.7	2465.7
22.5°	2471.0	2468.7	2477.9	2501.6	2551.3	2627.7	2860.8	3097.0	2940.3	2768.3	2567.3
25°	2669.0	2677.4	2661.3	2634.6	2650.6	2704.1	2885.3	3236.1	3145.1	2944.9	2700.3
27.5°	2951.0	2942.6	2918.9	2856.2	2823.3	2846.3	2966.3	3385.9	3399.6	3177.2	2876.1
30°	3232.3	3225.4	3202.4	3126.0	3058.8	3039.6	3123.7	3557.8	3703.1	3456.2	3091.6
32.5°	3524.2	3516.6	3495.2	3418.7	3337.7	3293.4	3347.7	3756.6	4060.8	3789.4	3345.4
35°	3884.2	3869.7	3824.6	3718.4	3638.9	3604.5	3629.7	4006.5	4473.5	4183.8	3653.4
37.5°	4222.8	4245.0	4199.1	4052.4	3949.2	3936.9	3965.2	4311.5	4918.3	4624.8	4007.3
40°	4562.9	4566.7	4525.5	4405.5	4299.2	4279.4	4350.4	4681.4	5443.4	5152.2	4437.6
42.5°	4914.5	4922.1	4852.6	4741.8	4663.8	4667.6	4748.6	5114.7	6045.7	5773.6	4932.8
45°	5331.0	5342.5	5266.1	5120.9	5049.8	5192.7	5159.1	5600.8	6706.0	6479.8	5501.5
47.5°	5766.7	5784.3	5726.2	5590.1	5501.5	5697.9	5569.5	6139.7	7416.8	7237.2	6125.9
50°	6004.4	6029.6	6086.2	6076.2	6057.1	6024.3	6027.3	6717.5	8149.8	8026.0	6767.9
52.5°	5876.8	5876.0	6082.4	6333.0	6600.6	6620.4	6585.3	7326.6	8834.6	8797.2	7372.5
55°	5292.8	5332.6	5645.2	6130.5	6861.2	7317.5	7421.4	8024.5	9507.2	9550.8	7986.2
57.5°	4320.6	4353.5	4775.4	5451.8	6509.6	7731.7	8610.7	9038.7	10259.3	10462.6	8803.3
60°	2930.4	2970.1	3417.2	4229.7	5563.4	7500.9	9742.6	10848.6	11159.6	11622.1	9949.7
62.5°	1722.0	1757.9	2122.5	2668.2	3917.1	6428.6	10239.4	13423.5	12589.7	13371.5	11698.5
65°	1185.4	1209.9	1387.2	1660.8	2250.9	4329.8	9623.4	15201.3	14790.1	15539.1	13726.2
67.5°	953.9	950.8	1091.4	1277.9	1449.1	2232.5	7277.0	15000.3	16725.3	17037.9	14778.6
70°	785.7	782.7	878.2	1032.6	1157.9	1257.3	3963.7	12658.5	16330.9	16457.8	13809.5
72.5°	657.3	660.4	721.5	836.2	950.0	947.0	1741.9	8904.9	12847.2	13724.7	11008.3
75°	554.9	556.4	596.9	677.9	771.2	762.8	944.7	4824.3	7468.0	8078.7	6102.2
77.5°	472.3	473.9	499.9	545.0	611.4	608.4	689.4	2084.3	3115.3	3077.1	2087.3
80°	421.1	421.1	433.4	441.8	478.5	464.7	511.3	1001.2	1316.9	1216.0	833.1
82.5°	330.2	331.7	406.6	403.6	376.8	359.2	359.2	590.0	697.8	645.1	487.6
85°	185.7	185.0	262.2	316.4	331.7	253.0	250.7	330.2	379.9	334.8	236.2
87.5°	79.5	81.0	121.5	140.6	188.0	157.4	155.2	170.4	193.4	167.4	109.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P192152

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2156.9	2156.9	2156.9	2156.9	2156.9	2156.9	2156.9	2156.9	2156.9	2156.9	2156.9
2.5°	2157.6	2137.8	2094.2	2039.9	1991.0	1958.9	1929.9	1887.8	1890.1	1861.1	1839.7
5°	2156.1	2114.8	2013.9	1894.0	1778.5	1695.2	1632.6	1576.0	1562.2	1535.5	1519.4
7.5°	2157.6	2090.4	1920.7	1728.9	1585.9	1480.5	1427.0	1397.2	1390.3	1381.1	1381.9
10°	2163.0	2068.2	1818.3	1574.5	1424.7	1355.1	1342.1	1351.3	1362.0	1365.1	1365.8
12.5°	2175.2	2048.3	1705.9	1436.9	1323.8	1302.4	1324.5	1355.9	1376.5	1386.5	1385.7
15°	2202.7	2033.1	1598.2	1329.1	1268.0	1279.4	1320.7	1365.1	1394.9	1408.6	1409.4
17.5°	2232.5	2010.9	1487.3	1246.6	1226.7	1255.8	1307.0	1358.9	1395.6	1410.9	1414.0
20°	2271.5	1983.4	1371.2	1184.7	1187.7	1220.6	1268.7	1320.7	1361.2	1374.2	1380.3
22.5°	2322.7	1953.6	1269.5	1134.2	1143.4	1168.6	1206.1	1251.2	1286.3	1292.4	1297.8
25°	2391.5	1921.5	1188.5	1088.4	1092.2	1106.7	1131.9	1158.7	1183.1	1176.3	1181.6
27.5°	2484.0	1894.0	1128.1	1046.3	1039.5	1042.5	1055.5	1063.9	1076.9	1057.8	1060.1
30°	2592.5	1864.1	1081.5	1009.6	990.5	985.2	988.2	992.8	1002.8	976.8	973.0
32.5°	2718.6	1828.2	1037.9	977.5	950.8	940.1	941.6	953.9	992.1	976.0	967.6
35°	2865.4	1787.7	992.1	942.4	924.0	908.8	907.2	945.4	1059.3	1049.4	1041.8
37.5°	3037.4	1747.2	946.2	902.6	904.2	887.4	882.0	925.6	1072.3	1033.3	1028.0
40°	3255.9	1725.8	907.2	860.6	879.7	877.4	866.7	888.9	986.7	915.6	906.5
42.5°	3526.5	1728.9	878.2	815.5	850.7	875.1	858.3	859.1	894.2	840.7	832.3
45°	3860.5	1764.8	857.6	779.6	817.8	872.8	855.3	843.0	846.1	817.8	813.2
47.5°	4250.3	1838.9	843.0	749.8	786.5	864.4	854.5	838.4	831.6	816.3	812.5
50°	4683.7	1946.7	832.3	721.5	758.2	850.7	855.3	833.9	826.2	820.1	817.8
52.5°	5109.4	2069.7	816.3	697.0	736.0	833.9	857.6	829.3	820.9	816.3	814.0
55°	5584.0	2223.4	791.8	676.4	717.7	812.5	857.6	822.4	813.2	814.0	813.2
57.5°	6225.3	2471.8	762.8	658.8	695.5	786.5	843.0	814.8	803.3	804.1	804.8
60°	7227.3	2909.7	727.6	641.3	668.0	755.9	823.2	797.9	786.5	789.5	790.3
62.5°	8700.9	3552.5	681.8	615.3	639.0	723.0	795.6	776.5	765.1	772.7	772.7
65°	10232.5	4119.6	625.2	582.4	608.4	687.1	761.2	749.8	738.3	755.9	755.1
67.5°	10644.5	3992.7	568.6	546.5	577.8	647.4	720.0	713.9	707.7	738.3	736.8
70°	9456.0	3205.5	516.7	509.8	544.2	604.6	675.6	675.6	671.8	694.8	689.4
72.5°	7204.4	2273.0	467.0	470.8	506.0	557.9	627.5	632.8	626.7	638.2	633.6
75°	3856.7	1300.9	417.3	428.0	458.6	510.6	574.0	579.3	575.5	574.8	577.1
77.5°	1281.7	635.9	365.3	382.2	408.9	461.6	518.2	526.6	517.4	515.9	515.1
80°	570.9	399.7	308.0	330.2	353.9	405.8	459.3	466.2	456.3	470.0	452.5
82.5°	366.9	262.9	246.9	271.3	294.3	350.1	400.5	402.0	392.9	456.3	389.0
85°	178.1	162.8	185.7	207.9	227.8	275.2	331.7	332.5	309.5	282.0	272.1
87.5°	88.7	94.8	123.8	143.7	153.6	188.8	241.5	236.9	227.0	206.4	190.3
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)