

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: P191771

Luminaire Tested: **GLEON-AF-03-LED-E1-AFL-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191771
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-03-LED-E1-AFL-7050
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18644 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

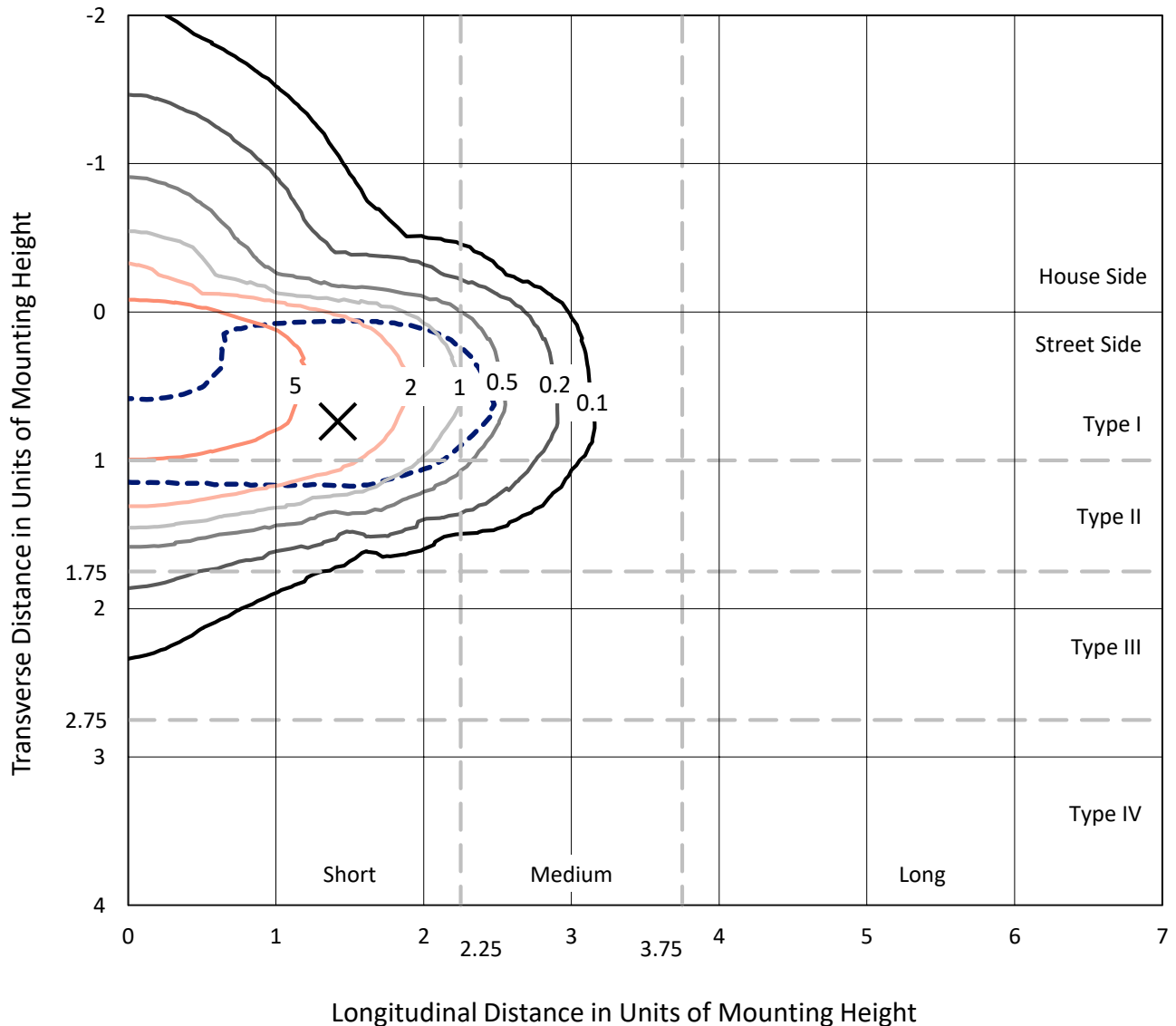
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P191771
 CATALOG NUMBER: GLEON-AF-03-LED-E1-AFL-7050

Iso-Footcandle Lines of Horizontal Illumination

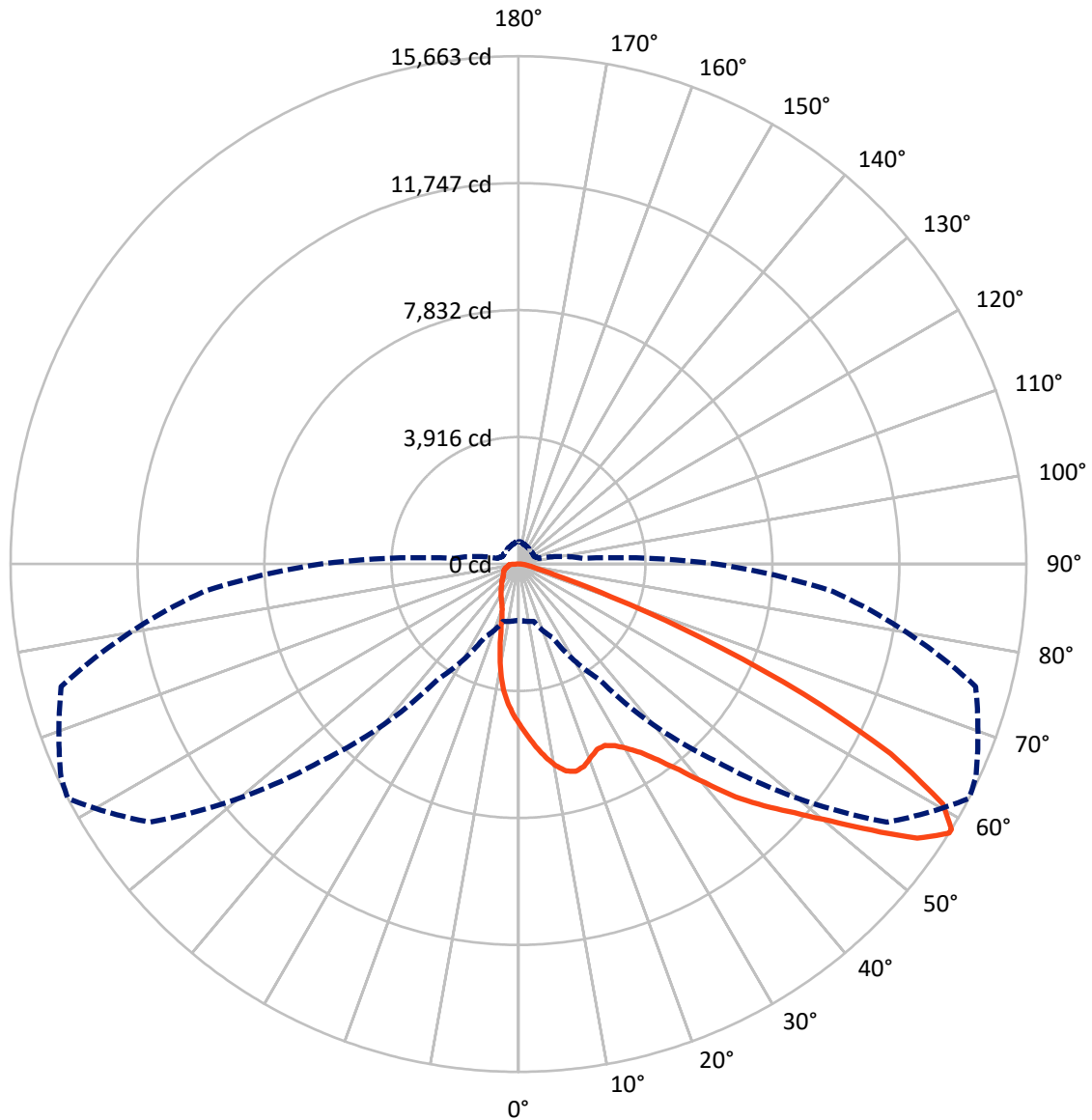
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
 Type II - Short - Full Cutoff

REPORT NUMBER: P191771
CATALOG NUMBER: GLEON-AF-03-LED-E1-AFL-7050

Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

REPORT NUMBER: P191771

CATALOG NUMBER: GLEON-AF-03-LED-E1-AFL-7050

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2843.3	0.0	2843.3
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	15800.7	0.0	15800.7
	% Fixture	84.7	0.0	84.7
Total	Lumens	18644.0	0.0	18644.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	442.9	2.4
10°-20°	1132.2	6.1
20°-30°	1830.2	9.8
30°-40°	2905.4	15.6
40°-50°	4251.2	22.8
50°-60°	4446.4	23.8
60°-70°	2627.0	14.1
70°-80°	740.0	4.0
80°-90°	268.7	1.4
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°	18644.0	100.0
0°-180°	18644.0	100.0

Coefficient of Utilization



REPORT NUMBER: P191771

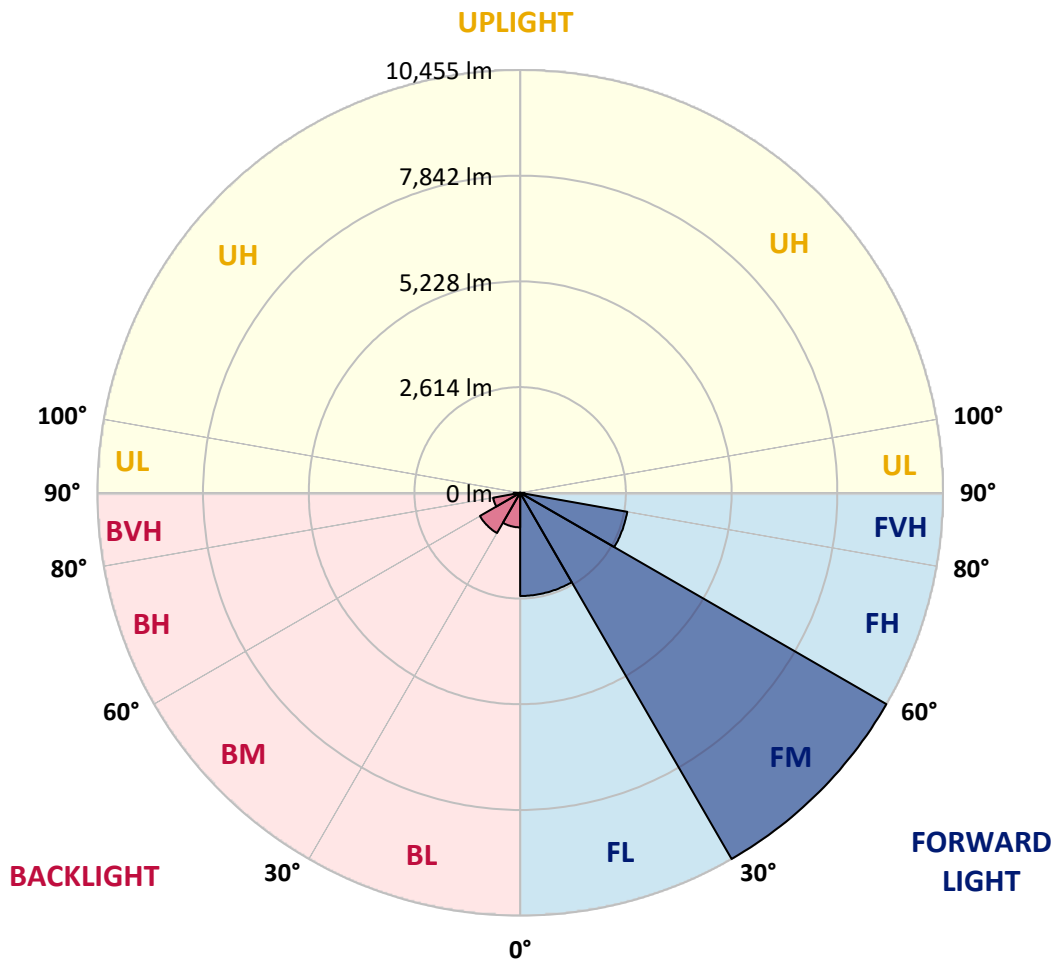
CATALOG NUMBER: GLEON-AF-03-LED-E1-AFL-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2550.7	13.7			
FM	(30°-60°)	10455.5	56.1			
FH	(60°-80°)	2688.5	14.4			G2/5000
FVH	(80°-90°)	106.0	0.6			G2/225
BL	(0°-30°)	854.6	4.6	B2/1000		
BM	(30°-60°)	1147.6	6.2	B2/2500		
BH	(60°-80°)	678.4	3.6	B2/1000		G2/1000
BVH	(80°-90°)	162.7	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 Short





REPORT NUMBER: P191771
 CATALOG NUMBER: GLEON-AF-03-LED-E1-AFL-7050

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	4952.4	4952.4	4952.4	4952.4	4952.4	4952.4	4952.4	4952.4	4952.4	4952.4	4952.4
2.5°	5659.1	5613.5	5584.5	5559.0	5525.7	5454.6	5358.9	5298.3	5267.6	5163.1	5039.3
5°	6214.0	6173.6	6143.7	6109.5	6049.8	5938.3	5783.8	5660.9	5600.3	5391.4	5143.8
7.5°	6084.0	6100.7	6152.5	6243.0	6320.2	6305.3	6167.5	6011.2	5931.3	5640.7	5264.9
10°	5300.9	5329.9	5419.5	5631.0	5973.4	6324.6	6431.7	6323.7	6243.0	5887.4	5389.6
12.5°	5143.8	5142.9	5149.9	5206.1	5409.8	5904.1	6440.5	6549.4	6501.1	6122.7	5516.9
15°	5207.9	5209.6	5204.4	5228.1	5291.3	5487.1	6171.8	6636.3	6670.5	6359.7	5648.6
17.5°	5376.4	5372.0	5351.9	5351.9	5374.7	5451.1	5855.8	6555.5	6713.5	6569.5	5764.5
20°	5659.1	5638.9	5585.4	5536.2	5511.6	5552.9	5725.9	6369.4	6638.9	6753.0	5860.2
22.5°	6001.5	5985.7	5898.8	5793.5	5708.3	5707.4	5792.6	6207.0	6509.8	6926.0	5940.9
25°	6444.0	6418.5	6289.5	6120.9	5971.7	5914.6	5938.3	6199.1	6439.6	7113.9	6012.9
27.5°	6963.7	6917.2	6764.4	6521.3	6301.8	6186.8	6152.5	6342.2	6503.7	7346.5	6113.0
30°	7594.1	7540.5	7344.8	7027.8	6717.9	6529.2	6456.3	6595.9	6716.2	7630.1	6273.7
32.5°	8311.4	8234.1	8007.6	7658.2	7250.8	6962.9	6844.3	6931.3	7026.9	7971.6	6474.7
35°	9302.5	9210.4	8882.9	8400.9	7940.9	7544.9	7355.3	7418.5	7511.6	8480.8	6765.3
37.5°	9978.5	9937.3	9719.6	9266.5	8766.1	8310.5	8017.2	8054.1	8106.8	9117.3	7137.6
40°	9972.4	9989.1	9993.5	9997.9	9657.2	9220.9	8905.7	8867.1	8856.6	9816.1	7560.7
42.5°	9472.9	9541.3	9762.6	10211.2	10418.4	10218.2	9929.4	9817.9	9762.6	10639.6	8009.3
45°	8708.2	8745.1	9159.4	10035.6	10808.2	11205.9	10987.3	10636.1	10536.0	11396.4	8381.6
47.5°	8314.0	8354.4	8615.1	9570.3	10803.8	12003.9	12130.3	11461.4	11282.3	12054.8	8702.9
50°	7375.5	7459.8	7788.1	8760.9	10409.6	12370.9	13325.2	12444.6	12074.2	12695.7	9025.1
52.5°	5652.1	5782.0	6149.9	7429.9	9409.6	12189.2	14281.3	13636.9	13113.6	13359.4	9301.7
55°	3565.3	3661.8	3970.9	5247.4	7527.4	11243.6	14643.9	14926.6	14461.3	13988.0	9541.3
57.5°	1938.5	1981.5	2097.4	2897.2	4896.2	9153.3	14115.3	15660.5	15467.4	14521.8	9722.2
58°	1734.8	1763.8	1835.8	2510.9	4342.2	8581.8	13880.9	15663.1	15566.6	14600.0	9736.2
60°	1287.0	1272.1	1208.0	1432.8	2416.9	5928.7	12464.0	15036.3	15319.9	14695.7	9667.8
62.5°	1130.8	1094.8	964.0	949.0	1175.5	2731.2	9536.9	12880.1	13550.0	14149.6	9251.6
65°	1062.3	1023.7	855.1	800.7	848.1	1155.4	5617.9	9659.9	10500.0	12493.8	8187.6
67.5°	1011.4	961.3	785.7	711.1	714.6	763.8	2251.9	6084.0	7029.6	9486.0	6368.5
70°	962.2	907.8	726.9	640.9	620.7	604.0	895.5	3045.5	3903.3	5991.9	4060.4
72.5°	909.5	856.0	675.1	585.6	546.1	490.8	584.7	1245.8	1740.1	2834.8	1841.9
75°	833.2	784.9	623.3	536.4	480.2	406.5	441.6	650.5	780.5	1129.0	887.6
77.5°	739.2	699.7	565.4	496.0	425.8	330.1	339.8	451.3	500.4	646.2	527.6
80°	531.1	545.2	503.1	446.0	379.3	267.8	260.7	329.2	355.6	415.3	343.3
82.5°	373.1	381.0	416.1	364.3	313.4	210.7	192.3	231.8	247.6	273.0	185.2
85°	257.2	248.5	285.3	253.7	226.5	140.5	131.7	157.1	166.8	169.4	95.7
87.5°	154.5	154.5	165.1	136.1	122.0	72.9	71.1	89.5	95.7	91.3	52.7
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: P191771
 CATALOG NUMBER: GLEON-AF-03-LED-E1-AFL-7050

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4952.4	4952.4	4952.4	4952.4	4952.4	4952.4	4952.4	4952.4	4952.4	4952.4	4952.4
2.5°	4965.6	4903.2	4770.7	4664.4	4530.1	4390.5	4312.4	4229.0	4171.9	4130.7	4196.5
5°	5003.3	4876.0	4602.1	4342.2	4055.2	3756.7	3530.2	3319.5	3172.8	3081.5	3167.6
7.5°	5063.0	4867.2	4430.9	3986.7	3471.3	2974.4	2530.2	2251.9	2089.5	2009.6	2059.6
10°	5131.5	4853.2	4229.9	3504.7	2767.2	2141.3	1809.4	1697.0	1660.2	1645.2	1652.3
12.5°	5188.6	4823.3	3983.2	2921.7	2078.1	1690.9	1595.2	1592.6	1600.5	1602.2	1604.9
15°	5228.9	4779.4	3617.1	2314.2	1661.9	1540.8	1535.5	1551.3	1566.2	1572.4	1575.9
17.5°	5256.2	4689.0	3203.6	1829.6	1489.0	1467.9	1480.2	1500.4	1516.2	1520.6	1524.1
20°	5253.5	4556.5	2711.0	1525.8	1395.0	1395.0	1416.1	1431.9	1432.8	1427.5	1430.1
22.5°	5226.3	4374.7	2233.5	1364.3	1311.6	1326.6	1347.6	1332.7	1271.2	1230.9	1233.5
25°	5180.7	4157.9	1824.3	1261.6	1234.4	1260.7	1254.6	1142.2	1054.4	1014.9	1014.9
27.5°	5140.3	3901.5	1510.0	1172.0	1157.1	1189.6	1080.7	978.9	942.0	923.6	917.4
30°	5111.3	3625.0	1300.2	1086.0	1084.2	1060.5	937.6	909.5	903.4	888.5	883.2
32.5°	5118.3	3344.9	1165.9	1010.5	1016.6	907.8	869.1	875.3	870.0	854.2	847.2
35°	5176.3	3078.9	1078.1	942.0	923.6	820.0	828.8	840.2	838.4	816.5	809.5
37.5°	5279.9	2826.9	1020.2	885.0	805.9	776.1	790.1	807.7	803.3	788.4	783.1
40°	5388.7	2589.9	972.7	840.2	736.6	746.2	758.5	768.2	772.6	777.0	773.5
42.5°	5495.0	2342.3	914.8	794.5	707.6	718.1	723.4	733.1	756.8	773.5	772.6
45°	5558.2	2109.7	855.1	729.6	684.8	690.9	687.4	706.7	735.7	762.9	763.8
47.5°	5628.4	1928.8	807.7	669.9	662.8	667.2	656.7	676.0	702.3	735.7	739.2
50°	5713.6	1820.8	769.9	622.5	633.0	633.0	630.4	647.9	684.8	723.4	730.4
52.5°	5810.1	1799.8	738.3	588.2	603.1	602.3	604.9	631.2	671.6	709.4	715.5
55°	5927.8	1856.8	704.1	562.8	574.2	577.7	586.5	616.3	650.5	693.6	696.2
57.5°	6064.7	1972.7	676.9	542.6	547.8	559.2	573.3	600.5	637.4	684.8	687.4
58°	6087.6	1997.3	672.5	540.8	542.6	555.7	571.5	597.9	634.7	686.5	689.2
60°	6088.4	2078.9	662.8	532.9	522.4	544.3	561.9	588.2	630.4	692.7	698.8
62.5°	5872.5	2078.1	655.8	521.5	501.3	528.5	548.7	579.4	626.0	707.6	719.9
65°	5171.0	1888.4	622.5	503.9	484.6	514.5	537.3	573.3	638.3	772.6	780.5
67.5°	4044.6	1547.8	560.1	479.3	462.7	500.4	530.3	572.4	651.4	787.5	792.8
70°	2674.2	1158.0	491.6	451.3	439.8	483.7	533.8	602.3	636.5	755.9	741.9
72.5°	1388.0	813.0	436.3	416.1	413.5	468.8	584.7	598.7	621.6	711.1	693.6
75°	728.7	564.5	388.0	377.5	381.9	465.3	690.1	582.9	602.3	680.4	713.8
77.5°	446.0	455.6	346.8	342.4	351.2	454.8	689.2	562.8	574.2	626.0	662.8
80°	298.5	369.6	315.2	316.1	322.2	416.1	618.9	531.1	539.9	591.7	629.5
82.5°	188.8	218.6	286.2	301.1	293.2	343.3	525.9	483.7	496.0	676.9	715.5
85°	95.7	137.0	248.5	289.7	264.3	240.6	426.7	424.0	430.2	488.1	510.1
87.5°	43.9	75.5	194.0	252.8	199.3	150.1	309.9	314.3	338.9	346.8	346.8
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)