

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: P193494

Luminaire Tested: **GLEON-AF-06-LED-E1-AFL-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193494
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-06-LED-E1-AFL-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19636 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

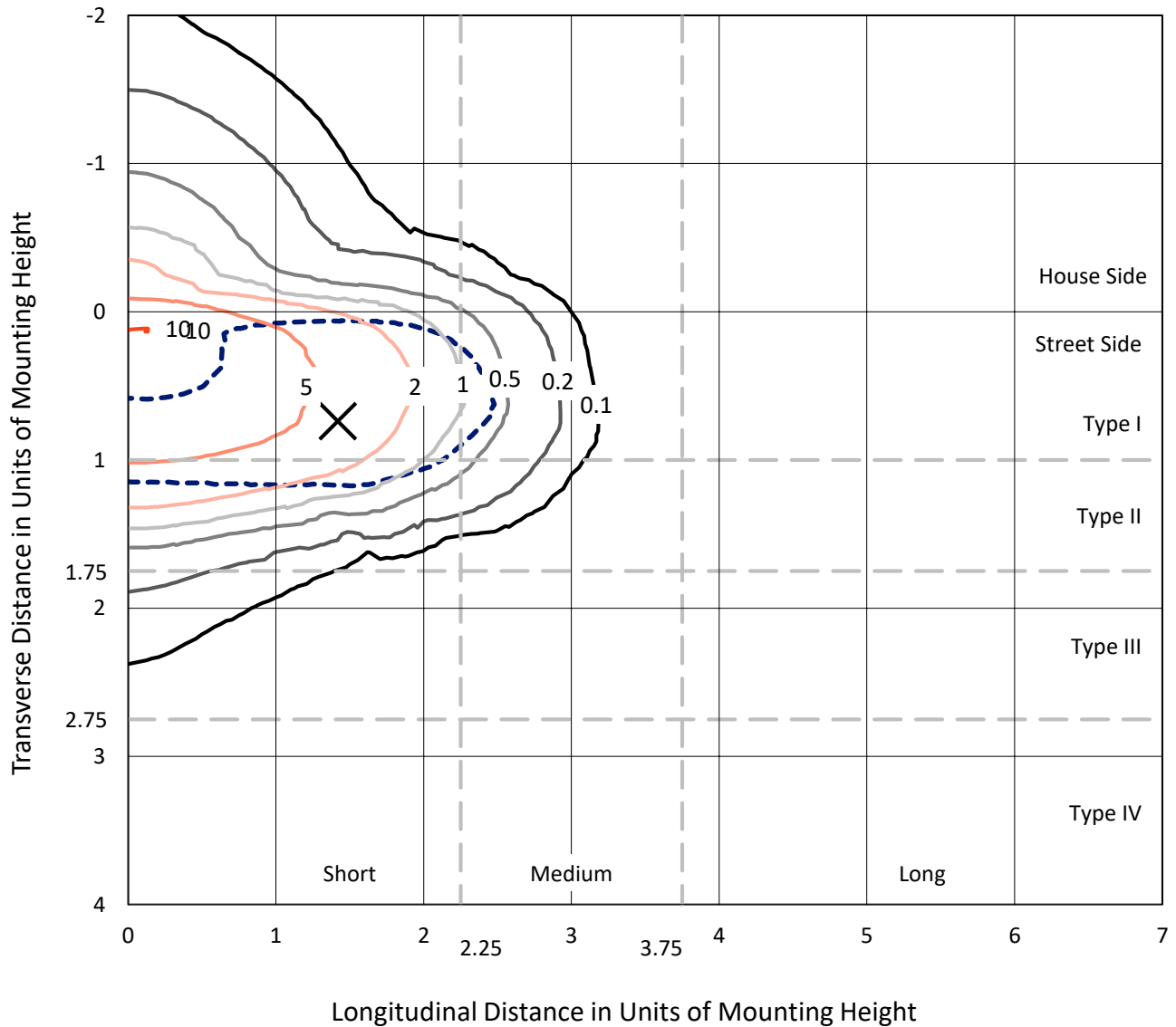
Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P193494
 CATALOG NUMBER: GLEON-AF-06-LED-E1-AFL-8030-600

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

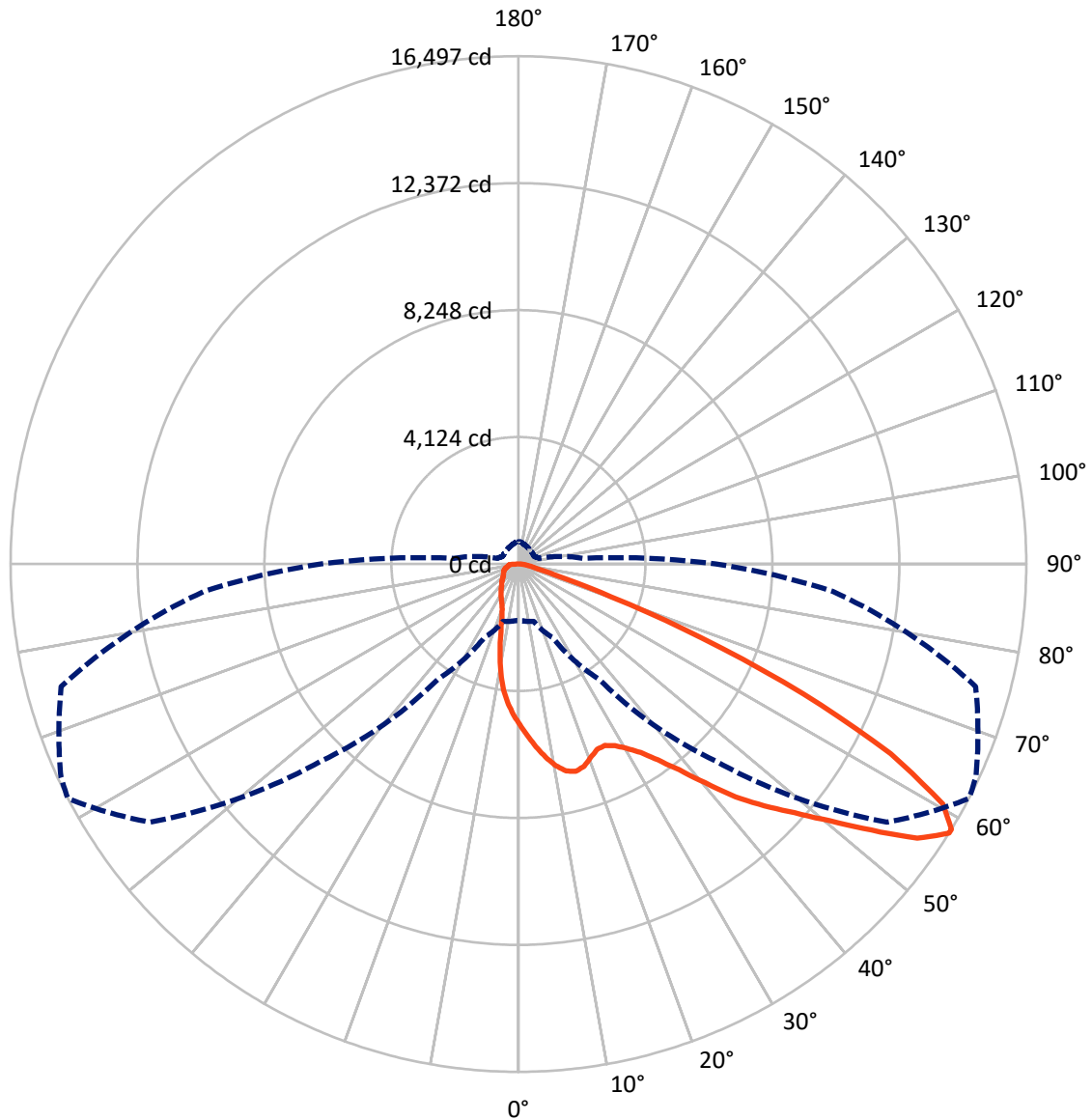


Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type II - Short - Full Cutoff

REPORT NUMBER: P193494

CATALOG NUMBER: GLEON-AF-06-LED-E1-AFL-8030-600

Luminous Intensity Polar Plot



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

REPORT NUMBER: P193494

CATALOG NUMBER: GLEON-AF-06-LED-E1-AFL-8030-600

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2994.6	0.0	2994.6
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	16641.4	0.0	16641.4
	% Fixture	84.7	0.0	84.7
Total	Lumens	19636.0	0.0	19636.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	466.5	2.4
10°-20°	1192.4	6.1
20°-30°	1927.6	9.8
30°-40°	3060.0	15.6
40°-50°	4477.4	22.8
50°-60°	4683.0	23.8
60°-70°	2766.7	14.1
70°-80°	779.4	4.0
80°-90°	283.0	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°	19636.0	100.0
0°-180°	19636.0	100.0



REPORT NUMBER: P193494

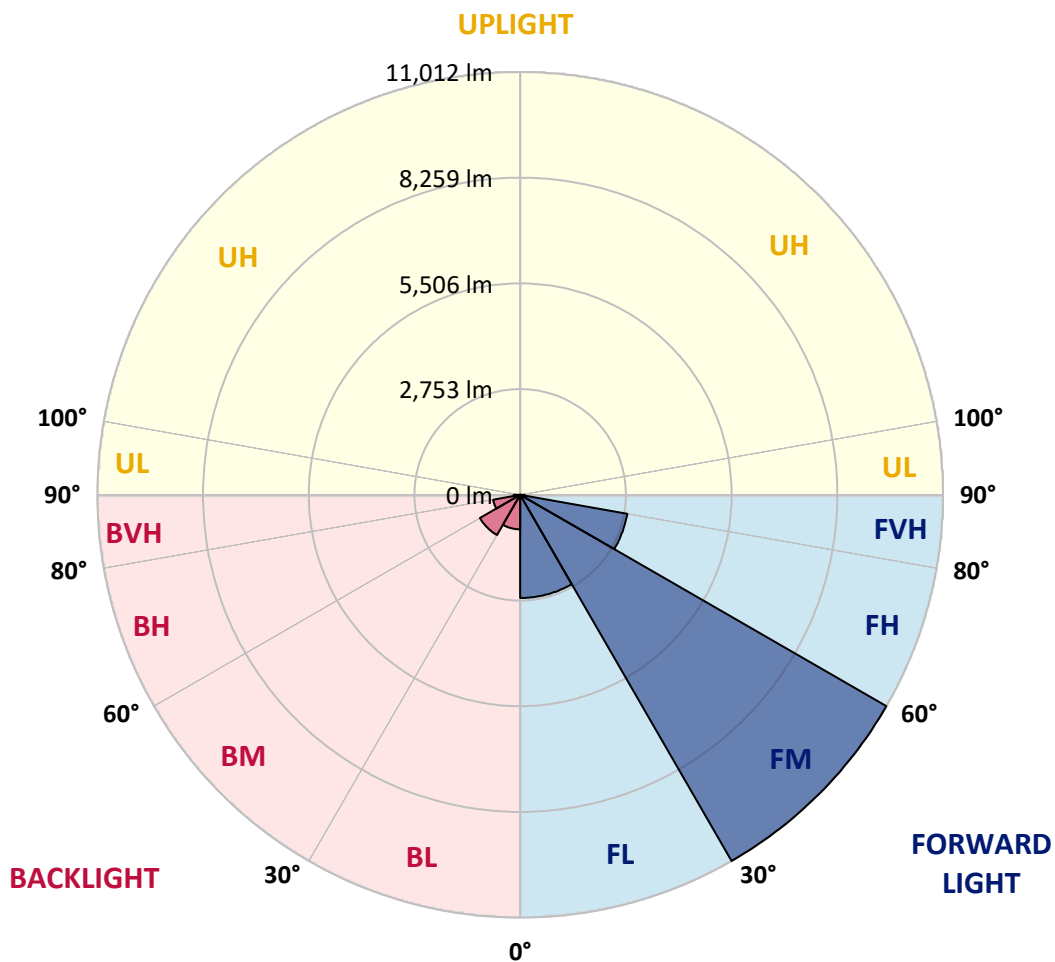
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2686.4	13.7			
FM	(30°-60°)	11011.8	56.1			
FH	(60°-80°)	2831.6	14.4			G2/5000
FVH	(80°-90°)	111.6	0.6			G2/225
BL	(0°-30°)	900.0	4.6	B2/1000		
BM	(30°-60°)	1208.7	6.2	B2/2500		
BH	(60°-80°)	714.5	3.6	B2/1000		G2/1000
BVH	(80°-90°)	171.3	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: P193494

CATALOG NUMBER: GLEON-AF-06-LED-E1-AFL-8030-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	5215.9	5215.9	5215.9	5215.9	5215.9	5215.9	5215.9	5215.9	5215.9	5215.9	5215.9
2.5°	5960.2	5912.2	5881.6	5854.8	5819.7	5744.8	5644.0	5580.2	5547.8	5437.8	5307.4
5°	6544.6	6502.1	6470.6	6434.6	6371.7	6254.3	6091.5	5962.1	5898.3	5678.2	5417.5
7.5°	6407.8	6425.3	6479.9	6575.1	6656.5	6640.8	6495.6	6331.0	6246.9	5940.8	5545.1
10°	5583.0	5613.5	5707.8	5930.7	6291.3	6661.1	6773.9	6660.2	6575.1	6200.6	5676.4
12.5°	5417.5	5416.6	5423.9	5483.1	5697.6	6218.2	6783.2	6897.8	6847.0	6448.5	5810.4
15°	5485.0	5486.8	5481.3	5506.2	5572.8	5779.0	6500.2	6989.4	7025.4	6698.1	5949.1
17.5°	5662.5	5657.9	5636.6	5636.6	5660.7	5741.1	6167.4	6904.3	7070.7	6919.1	6071.2
20°	5960.2	5939.0	5882.6	5830.8	5804.9	5848.4	6030.5	6708.3	6992.1	7112.3	6172.0
22.5°	6320.9	6304.2	6212.7	6101.7	6012.0	6011.1	6100.8	6537.2	6856.2	7294.5	6257.1
25°	6786.9	6760.1	6624.1	6446.6	6289.4	6229.3	6254.3	6528.9	6782.2	7492.4	6332.9
27.5°	7334.3	7285.3	7124.4	6868.2	6637.1	6515.9	6479.9	6679.6	6849.7	7737.4	6438.3
30°	7998.2	7941.7	7735.6	7401.8	7075.4	6876.6	6799.8	6946.8	7073.5	8036.1	6607.5
32.5°	8753.6	8672.2	8433.7	8065.6	7636.6	7333.3	7208.5	7300.0	7400.8	8395.7	6819.2
35°	9797.5	9700.4	9355.5	8847.9	8363.4	7946.4	7746.6	7813.2	7911.2	8932.0	7125.3
37.5°	10509.5	10466.0	10236.7	9759.6	9232.5	8752.7	8443.8	8482.7	8538.1	9602.4	7517.3
40°	10503.0	10520.6	10525.2	10529.8	10171.1	9711.5	9379.6	9338.9	9327.8	10338.4	7963.0
42.5°	9976.9	10049.0	10282.0	10754.5	10972.7	10761.9	10457.7	10340.3	10282.0	11205.7	8435.5
45°	9171.5	9210.4	9646.8	10569.6	11383.3	11802.1	11571.9	11202.0	11096.6	12002.8	8827.6
47.5°	8756.4	8798.9	9073.5	10079.5	11378.6	12642.6	12775.8	12071.2	11882.6	12696.3	9166.0
50°	7767.9	7856.7	8202.5	9227.0	10963.5	13029.1	14034.2	13106.8	12716.6	13371.2	9505.3
52.5°	5952.8	6089.7	6477.1	7825.2	9910.3	12837.7	15041.1	14362.5	13811.4	14070.3	9796.6
55°	3755.0	3856.7	4182.2	5526.6	7927.9	11841.9	15423.0	15720.8	15230.7	14732.3	10049.0
57.5°	2041.6	2086.9	2209.0	3051.3	5156.7	9640.3	14866.4	16493.8	16290.3	15294.5	10239.5
58°	1827.1	1857.6	1933.4	2644.5	4573.3	9038.4	14619.5	16496.5	16394.8	15376.8	10254.3
60°	1355.5	1339.8	1272.3	1509.0	2545.5	6244.1	13127.1	15836.3	16135.0	15477.6	10182.2
62.5°	1190.9	1153.0	1015.3	999.5	1238.1	2876.6	10044.4	13565.4	14270.9	14902.4	9743.9
65°	1118.8	1078.1	900.6	843.3	893.2	1216.8	5916.8	10173.8	11058.7	13158.6	8623.2
67.5°	1065.2	1012.5	827.6	749.0	752.7	804.4	2371.7	6407.8	7403.6	9990.8	6707.4
70°	1013.4	956.1	765.6	675.0	653.7	636.2	943.1	3207.6	4111.0	6310.7	4276.5
72.5°	957.9	901.5	711.0	616.7	575.1	516.9	615.8	1312.1	1832.6	2985.7	1939.9
75°	877.5	826.6	656.5	565.0	505.8	428.1	465.1	685.2	822.0	1189.1	934.8
77.5°	778.5	736.9	595.5	522.4	448.5	347.7	357.8	475.3	527.0	680.5	555.7
80°	559.4	574.2	529.8	469.7	399.4	282.0	274.6	346.7	374.5	437.4	361.5
82.5°	393.0	401.3	438.3	383.7	330.1	221.9	202.5	244.1	260.7	287.6	195.1
85°	270.9	261.7	300.5	267.2	238.6	147.9	138.7	165.5	175.7	178.5	100.8
87.5°	162.7	162.7	173.8	143.3	128.5	76.7	74.9	94.3	100.8	96.2	55.5
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°	5215.9	5215.9	5215.9	5215.9	5215.9	5215.9	5215.9	5215.9	5215.9	5215.9	5215.9
2.5°	5229.8	5164.1	5024.5	4912.6	4771.2	4624.1	4541.8	4454.0	4393.9	4350.4	4419.8
5°	5269.5	5135.5	4847.0	4573.3	4270.9	3956.5	3718.0	3496.1	3341.7	3245.5	3336.1
7.5°	5332.4	5126.2	4666.7	4198.8	3656.0	3132.7	2664.8	2371.7	2200.6	2116.5	2169.2
10°	5404.5	5111.4	4454.9	3691.2	2914.5	2255.2	1905.7	1787.3	1748.5	1732.8	1740.2
12.5°	5464.6	5080.0	4195.1	3077.2	2188.6	1780.9	1680.1	1677.3	1685.6	1687.5	1690.2
15°	5507.2	5033.7	3809.5	2437.4	1750.3	1622.7	1617.2	1633.8	1649.6	1656.0	1659.7
17.5°	5535.8	4938.5	3374.0	1927.0	1568.2	1546.0	1558.9	1580.2	1596.9	1601.5	1605.2
20°	5533.1	4798.9	2855.3	1607.0	1469.3	1469.3	1491.4	1508.1	1509.0	1503.5	1506.2
22.5°	5504.4	4607.5	2352.3	1436.9	1381.4	1397.1	1419.3	1403.6	1338.9	1296.3	1299.1
25°	5456.3	4379.1	1921.4	1328.7	1300.0	1327.8	1321.3	1203.0	1110.5	1068.9	1068.9
27.5°	5413.8	4109.1	1590.4	1234.4	1218.7	1252.9	1138.2	1031.0	992.1	972.7	966.3
30°	5383.3	3817.8	1369.4	1143.8	1141.9	1117.0	987.5	957.9	951.5	935.7	930.2
32.5°	5390.7	3522.9	1227.9	1064.3	1070.7	956.1	915.4	921.9	916.3	899.7	892.3
35°	5451.7	3242.7	1135.5	992.1	972.7	863.6	872.9	884.9	883.0	859.9	852.5
37.5°	5560.8	2977.3	1074.4	932.0	848.8	817.4	832.2	850.7	846.0	830.3	824.8
40°	5675.5	2727.7	1024.5	884.9	775.8	785.9	798.9	809.1	813.7	818.3	814.6
42.5°	5787.3	2466.9	963.5	836.8	745.3	756.4	761.9	772.1	797.0	814.6	813.7
45°	5853.9	2221.9	900.6	768.4	721.2	727.7	724.0	744.3	774.8	803.5	804.4
47.5°	5927.9	2031.4	850.7	705.5	698.1	702.7	691.6	712.0	739.7	774.8	778.5
50°	6017.6	1917.7	810.9	655.6	666.7	666.7	663.9	682.4	721.2	761.9	769.3
52.5°	6119.3	1895.5	777.6	619.5	635.2	634.3	637.1	664.8	707.4	747.1	753.6
55°	6243.2	1955.6	741.6	592.7	604.7	608.4	617.7	649.1	685.2	730.5	733.2
57.5°	6387.4	2077.7	712.9	571.4	577.0	589.0	603.8	632.5	671.3	721.2	724.0
58°	6411.5	2103.6	708.3	569.6	571.4	585.3	601.9	629.7	668.5	723.1	725.8
60°	6412.4	2189.6	698.1	561.3	550.2	573.3	591.8	619.5	663.9	729.5	736.0
62.5°	6184.9	2188.6	690.7	549.2	528.0	556.6	577.9	610.3	659.3	745.3	758.2
65°	5446.1	1988.9	655.6	530.7	510.4	541.8	565.9	603.8	672.2	813.7	822.0
67.5°	4259.8	1630.1	589.9	504.9	487.3	527.0	558.5	602.9	686.1	829.4	835.0
70°	2816.5	1219.6	517.8	475.3	463.2	509.5	562.2	634.3	670.4	796.1	781.3
72.5°	1461.9	856.2	459.5	438.3	435.5	493.8	615.8	630.6	654.6	749.0	730.5
75°	767.5	594.5	408.7	397.6	402.2	490.1	726.8	614.0	634.3	716.6	751.7
77.5°	469.7	479.9	365.2	360.6	369.9	479.0	725.8	592.7	604.7	659.3	698.1
80°	314.4	389.3	331.9	332.9	339.3	438.3	651.9	559.4	568.7	623.2	663.0
82.5°	198.8	230.2	301.4	317.2	308.8	361.5	553.9	509.5	522.4	712.9	753.6
85°	100.8	144.2	261.7	305.1	278.3	253.4	449.4	446.6	453.1	514.1	537.2
87.5°	46.2	79.5	204.3	266.3	209.9	158.1	326.4	331.0	356.9	365.2	365.2
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)