

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: P191077

Luminaire Tested: **GLEON-AF-09-LED-E1-SL2-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191077
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-09-LED-E1-SL2-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35135.3 lumens
Efficiency: N/A
Efficacy: 121.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 290
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

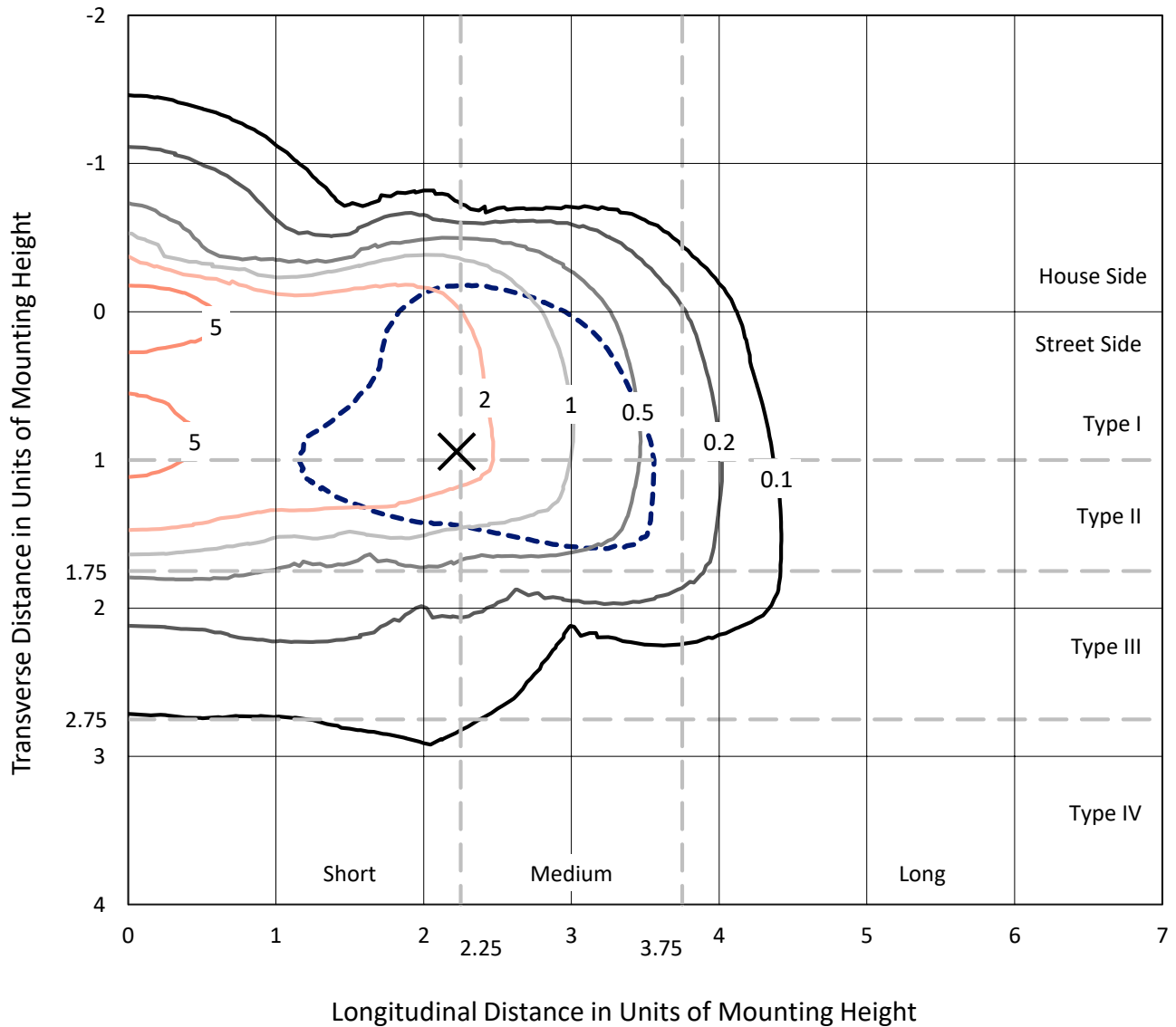


REPORT NUMBER: P191077

CATALOG NUMBER: GLEON-AF-09-LED-E1-SL2-600

Iso-Footcandle Lines of Horizontal Illumination

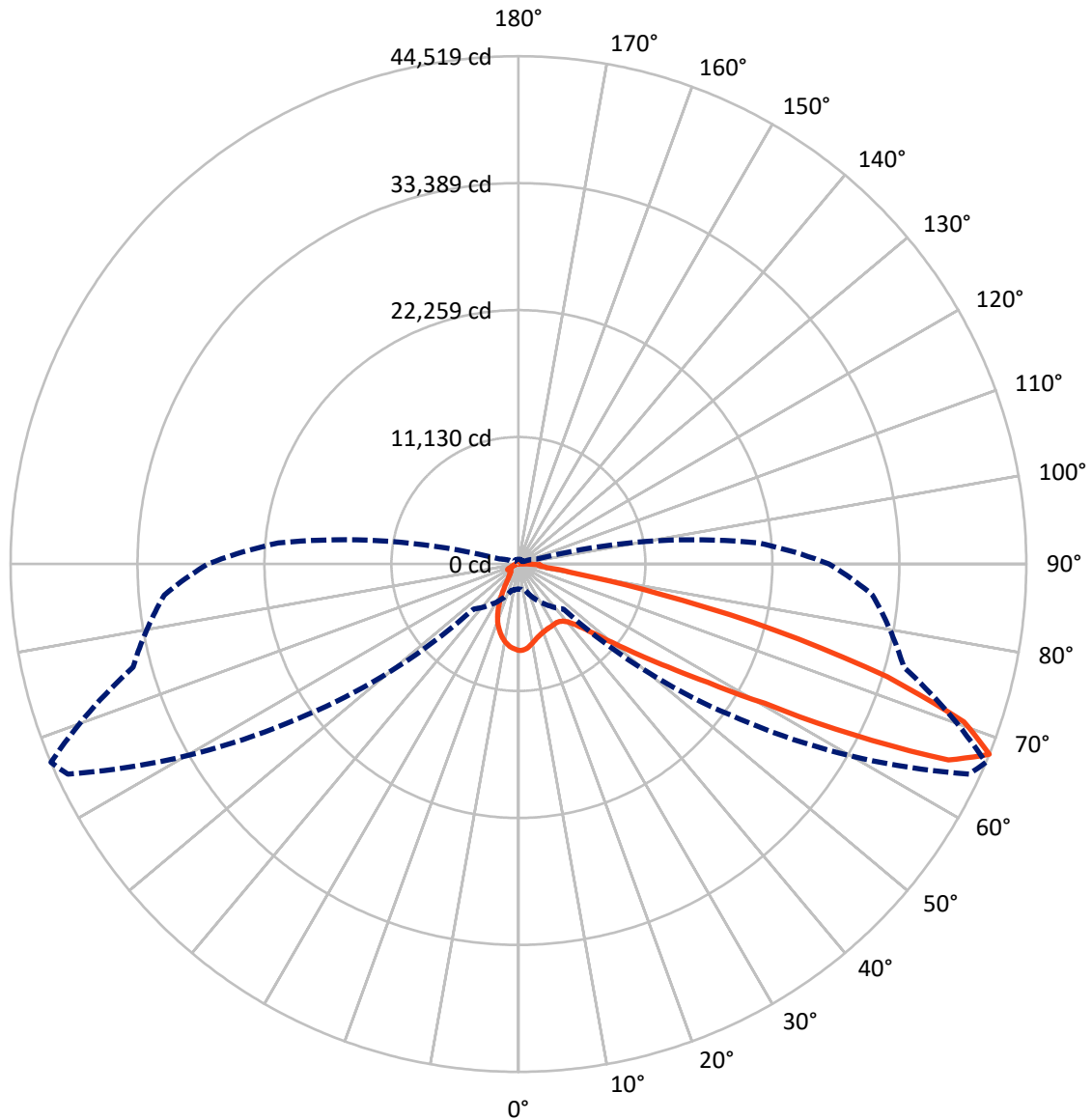
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.4 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P191077
CATALOG NUMBER: GLEON-AF-09-LED-E1-SL2-600

Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P191077

CATALOG NUMBER: GLEON-AF-09-LED-E1-SL2-600

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5821.5	0.0	5821.5
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	29313.8	0.0	29313.8
	% Fixture	83.4	0.0	83.4
Total	Lumens	35135.3	0.0	35135.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	646.6	1.8
10°-20°	1496.1	4.3
20°-30°	2027.9	5.8
30°-40°	2882.9	8.2
40°-50°	4823.2	13.7
50°-60°	7630.3	21.7
60°-70°	9720.3	27.7
70°-80°	5091.5	14.5
80°-90°	816.6	2.3
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°	35135.3	100.0
0°-180°	35135.3	100.0



REPORT NUMBER: P191077

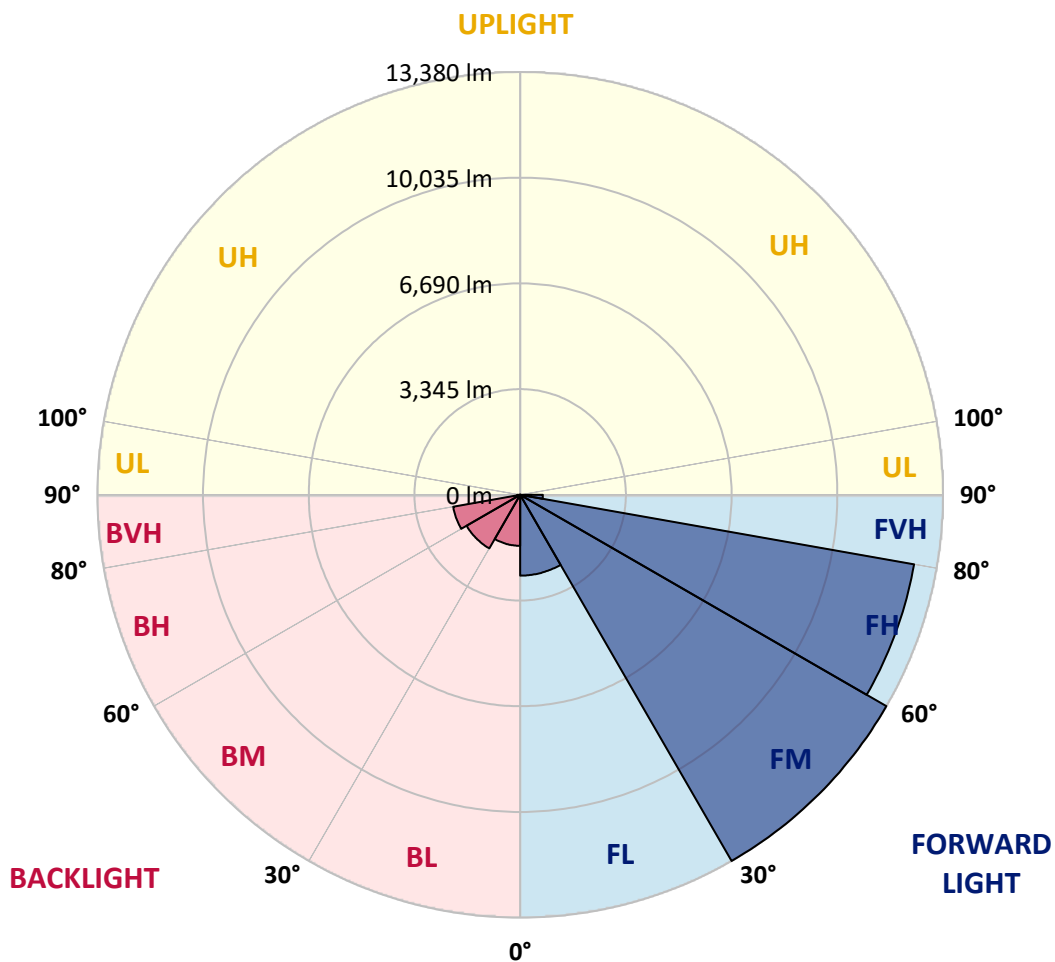
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2557.0	7.3			
FM (30°-60°)	13380.3	38.1			
FH (60°-80°)	12658.5	36.0			G5
FVH (80°-90°)	718.0	2.0			G4/750
BL (0°-30°)	1613.6	4.6	B3/2500		
BM (30°-60°)	1956.2	5.6	B2/2500		
BH (60°-80°)	2153.2	6.1	B3/2500		G3/2500
BVH (80°-90°)	98.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Short





REPORT NUMBER: P191077

CATALOG NUMBER: GLEON-AF-09-LED-E1-SL2-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	7578.6	7578.6	7578.6	7578.6	7578.6	7578.6	7578.6	7578.6	7578.6	7578.6	7578.6
2.5°	7266.7	7278.8	7317.0	7341.2	7450.4	7497.2	7530.0	7563.0	7568.2	7583.7	7568.2
5°	6504.3	6530.3	6601.4	6681.1	6892.4	7058.8	7233.8	7415.7	7448.6	7566.5	7599.4
7.5°	5913.5	5906.6	5965.5	6060.8	6277.3	6507.8	6814.5	7176.6	7247.7	7512.8	7640.9
10°	5482.1	5476.9	5539.3	5638.0	5844.2	6062.5	6409.1	6904.6	7005.1	7427.9	7680.8
12.5°	5163.2	5165.0	5227.4	5336.5	5546.2	5766.3	6118.0	6641.2	6769.5	7329.1	7722.4
15°	4951.9	4965.8	5016.0	5132.1	5336.5	5556.6	5901.4	6443.7	6587.5	7251.1	7769.2
17.5°	4880.9	4903.4	4920.7	5005.6	5180.6	5400.7	5738.5	6298.2	6450.6	7197.4	7810.7
20°	4946.7	4972.7	4939.7	4969.2	5080.1	5274.1	5610.3	6183.8	6339.7	7136.8	7816.0
22.5°	5229.1	5253.4	5156.4	5071.5	5064.5	5182.4	5504.6	6093.7	6254.8	7091.7	7817.7
25°	5726.4	5742.0	5579.1	5381.6	5189.3	5149.4	5430.1	6031.3	6202.9	7051.9	7784.8
27.5°	6336.3	6348.4	6161.3	5870.2	5483.8	5227.4	5404.1	5995.0	6173.4	7017.2	7729.3
30°	7077.9	7135.1	6883.8	6516.5	5953.4	5457.9	5456.1	5975.9	6140.5	6958.3	7620.2
32.5°	7836.7	7861.0	7687.8	7315.2	6585.8	5863.2	5601.7	5989.8	6131.9	6887.2	7481.6
35°	8606.1	8637.3	8524.7	8224.8	7450.4	6457.6	5885.8	6071.2	6185.6	6863.0	7384.6
37.5°	9602.3	9643.9	9488.0	9141.4	8502.1	7263.3	6358.8	6275.6	6350.2	6932.3	7355.1
40°	11177.3	11158.2	10702.5	10186.2	9652.6	8294.2	7034.5	6622.2	6665.4	7155.8	7445.1
42.5°	13010.4	12963.7	12178.7	11367.8	10917.4	9541.7	7928.6	7223.4	7214.8	7595.9	7762.3
45°	14472.8	14434.7	13727.8	12728.1	12367.7	10962.5	9084.3	8119.2	8055.1	8294.2	8347.9
47.5°	15264.6	15266.3	14859.2	14043.1	14034.5	12767.9	10569.1	9415.2	9304.4	9417.0	9359.8
50°	14987.4	15023.8	14980.5	14720.6	15555.7	15134.7	12507.9	11222.4	10998.9	11109.8	10889.7
52.5°	13646.4	13693.1	13949.6	14348.0	16195.1	17995.2	15356.4	13467.9	13207.9	13168.1	12923.9
55°	11269.1	11326.3	11849.6	12932.5	15663.1	19916.8	19851.0	16330.2	15916.1	15540.2	15436.1
57.5°	7767.5	7862.7	8704.8	10312.7	13942.6	20497.2	25203.1	20410.5	19568.5	18255.2	18279.4
60°	4378.4	4489.3	5482.1	6942.7	10470.4	19866.5	29274.8	26590.9	24813.2	21434.6	21614.7
62.5°	2784.4	2904.0	3657.7	4823.7	6282.6	16470.5	30943.3	35183.2	32925.5	25353.8	25530.5
65°	2254.2	2306.1	2661.3	3981.6	4562.1	9922.8	29676.7	42261.0	41418.9	30328.2	29503.5
67.5°	2200.5	2217.8	2401.5	3342.3	4375.0	5577.4	23671.4	43584.8	44518.6	34973.5	31158.2
70°	2174.5	2235.1	2706.4	3189.8	4189.5	4704.1	14225.1	39956.6	41431.0	36188.0	28956.0
72.5°	1055.2	1051.7	1361.9	2884.8	4719.7	4879.2	7308.3	32329.4	33809.1	31352.2	23794.4
75°	850.7	778.0	743.3	1056.9	4537.8	5038.5	4657.4	22245.5	23316.2	21020.5	14627.0
77.5°	807.4	720.8	660.1	661.8	1918.0	5343.5	3945.2	12312.2	12624.0	9494.9	4007.6
80°	668.8	589.1	545.7	615.1	928.7	5088.8	4265.8	5572.2	5113.0	2332.1	1334.1
82.5°	464.3	422.8	410.6	516.3	743.3	3626.5	4960.6	2994.0	2510.6	1167.8	823.0
85°	296.2	253.0	280.7	375.9	578.7	1673.8	5109.5	2333.9	1855.6	741.5	464.3
87.5°	136.9	110.9	138.6	208.0	377.7	576.9	4861.8	2621.5	1911.1	391.6	292.8
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: P191077

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7578.6	7578.6	7578.6	7578.6	7578.6	7578.6	7578.6	7578.6	7578.6	7578.6	7578.6
2.5°	7582.1	7549.2	7523.2	7474.6	7420.9	7368.9	7322.2	7263.3	7246.0	7230.3	7254.6
5°	7606.4	7573.4	7478.1	7329.1	7164.5	7010.3	6856.1	6724.4	6642.9	6597.9	6623.9
7.5°	7642.7	7595.9	7398.4	7124.6	6828.4	6558.0	6279.1	6055.6	5891.0	5813.0	5835.5
10°	7675.6	7585.5	7263.3	6852.6	6419.4	6017.5	5577.4	5213.6	4943.2	4801.1	4835.8
12.5°	7689.5	7545.7	7074.4	6513.0	5918.7	5329.6	4681.6	4137.5	3749.4	3607.3	3577.9
15°	7703.3	7500.6	6866.5	6126.7	5314.0	4480.6	3572.8	2921.2	2599.0	2527.9	2512.4
17.5°	7706.8	7422.6	6630.9	5707.3	4605.3	3470.5	2443.0	2028.9	2030.7	2145.0	2158.8
20°	7670.4	7306.5	6345.0	5185.8	3756.4	2399.7	1677.2	1606.1	1867.8	2153.7	2188.3
22.5°	7587.2	7152.4	6021.0	4577.6	2784.4	1580.2	1297.7	1375.8	1713.5	2063.6	2103.4
25°	7481.6	6965.3	5638.0	3872.5	1843.6	1129.6	1088.1	1183.3	1412.1	1646.0	1668.5
27.5°	7337.7	6743.5	5208.4	3065.1	1197.3	930.5	958.2	1022.2	1115.8	1219.8	1230.2
30°	7152.4	6478.3	4749.2	2235.1	904.4	836.9	876.7	911.3	951.2	1010.2	1015.4
32.5°	6939.3	6223.6	4277.9	1543.8	802.2	788.4	819.6	836.9	868.1	904.4	907.9
35°	6760.8	5981.1	3789.3	1091.6	758.9	752.0	772.7	779.7	809.2	848.9	852.4
37.5°	6658.6	5783.6	3285.1	880.1	729.5	719.0	731.2	731.2	772.7	831.7	840.4
40°	6665.4	5674.4	2780.9	795.2	705.2	691.3	693.0	693.0	746.8	810.9	816.1
42.5°	6854.4	5702.1	2333.9	762.4	686.1	670.5	661.8	667.1	712.1	753.7	757.2
45°	7297.9	5897.9	1914.6	741.5	667.1	661.8	642.8	641.1	658.4	677.5	677.5
47.5°	8025.7	6284.3	1630.4	727.7	651.5	649.8	627.2	604.7	602.9	609.9	609.9
50°	9209.0	6949.6	1439.8	712.1	641.1	627.2	601.2	566.6	554.4	559.7	559.7
52.5°	10983.2	8136.6	1367.1	691.3	618.6	596.1	566.6	531.9	521.5	523.2	523.2
55°	13310.2	9959.2	1356.6	667.1	594.3	557.9	533.7	507.7	495.5	499.0	499.0
57.5°	16153.4	12480.2	1542.1	628.9	561.4	519.8	506.0	488.6	480.0	485.2	483.4
60°	19610.1	15779.2	2287.1	589.1	528.5	485.2	485.2	471.3	464.3	469.5	467.8
62.5°	23591.7	19568.5	3215.7	559.7	493.8	457.5	464.3	457.5	450.5	454.0	452.2
65°	27122.8	22037.5	3011.4	537.2	459.1	431.4	443.6	440.1	434.9	438.3	436.6
67.5°	27225.1	21122.7	1691.0	512.9	426.3	405.4	422.8	421.0	417.6	421.0	419.3
70°	24296.9	17835.9	953.0	467.8	391.6	374.3	398.5	396.8	393.3	400.3	398.5
72.5°	19466.2	12942.9	696.5	412.4	356.9	341.4	369.1	367.3	367.3	377.7	372.6
75°	11201.5	6660.3	556.2	353.4	320.5	308.4	332.7	334.4	337.9	351.7	341.4
77.5°	3193.2	2075.7	454.0	299.7	275.5	270.3	294.5	298.0	299.7	315.4	301.5
80°	1186.8	956.5	374.3	251.2	225.3	227.0	249.5	254.7	256.5	272.0	254.7
82.5°	757.2	630.6	303.2	194.1	176.8	175.0	202.7	209.6	209.6	211.3	201.0
85°	441.8	377.7	228.7	140.3	124.8	119.6	150.8	162.9	157.6	154.2	147.3
87.5°	296.2	259.9	140.3	77.9	67.6	64.1	88.4	97.1	93.6	88.4	83.2
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)