

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: P191234

Luminaire Tested: **GLEON-AF-06-LED-E1-SL4-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191234  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)  
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-SL4-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22800.5 lumens  
Efficiency: N/A  
Efficacy: 118.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G4

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

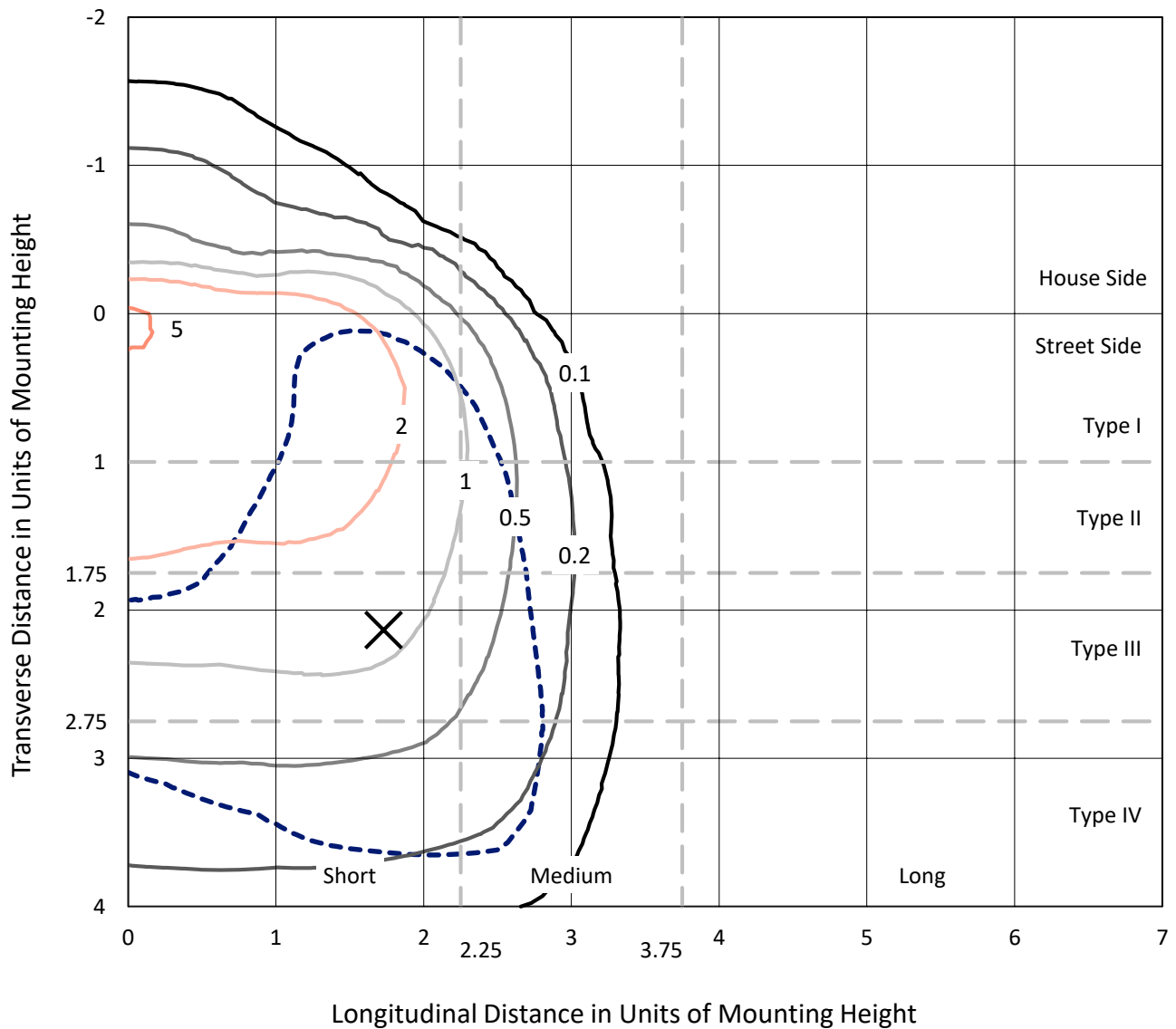


REPORT NUMBER: P191234

CATALOG NUMBER: GLEON-AF-06-LED-E1-SL4-600

### Iso-Footcandle Lines of Horizontal Illumination

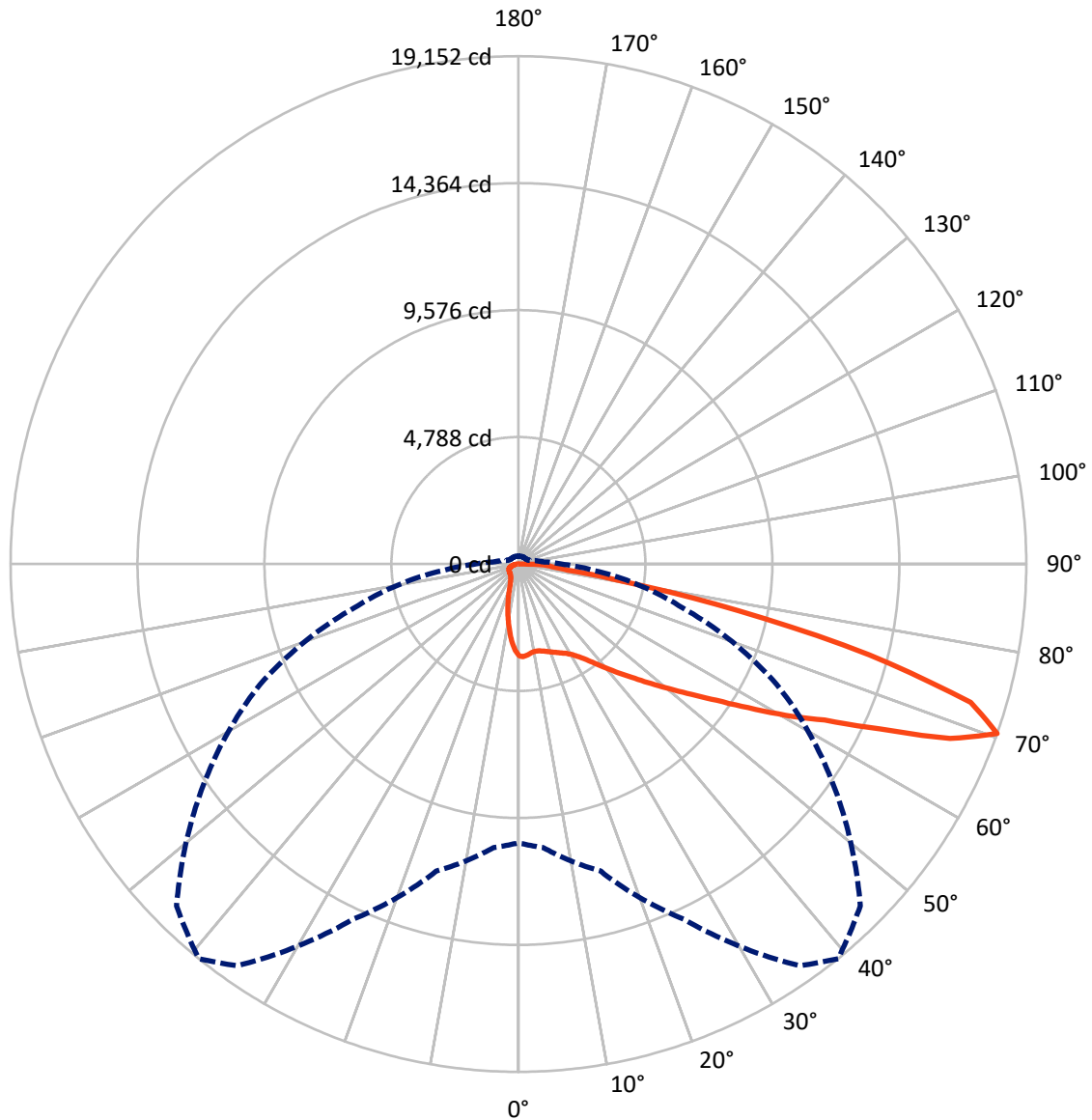
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc  
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P191234  
CATALOG NUMBER: GLEON-AF-06-LED-E1-SL4-600

### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P191234

CATALOG NUMBER: GLEON-AF-06-LED-E1-SL4-600

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2593.2	0.0	2593.2
	% Fixture	11.4	0.0	11.4
<b>Street Side</b>	Lumens	20207.4	0.0	20207.4
	% Fixture	88.6	0.0	88.6
<b>Total</b>	Lumens	22800.5	0.0	22800.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	297.1	1.3
10°-20°	742.5	3.3
20°-30°	1156.2	5.1
30°-40°	1801.1	7.9
40°-50°	3023.7	13.3
50°-60°	4803.4	21.1
60°-70°	6407.2	28.1
70°-80°	3869.1	17.0
80°-90°	700.3	3.1
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°	22800.5	100.0
0°-180°	22800.5	100.0



REPORT NUMBER: P191234

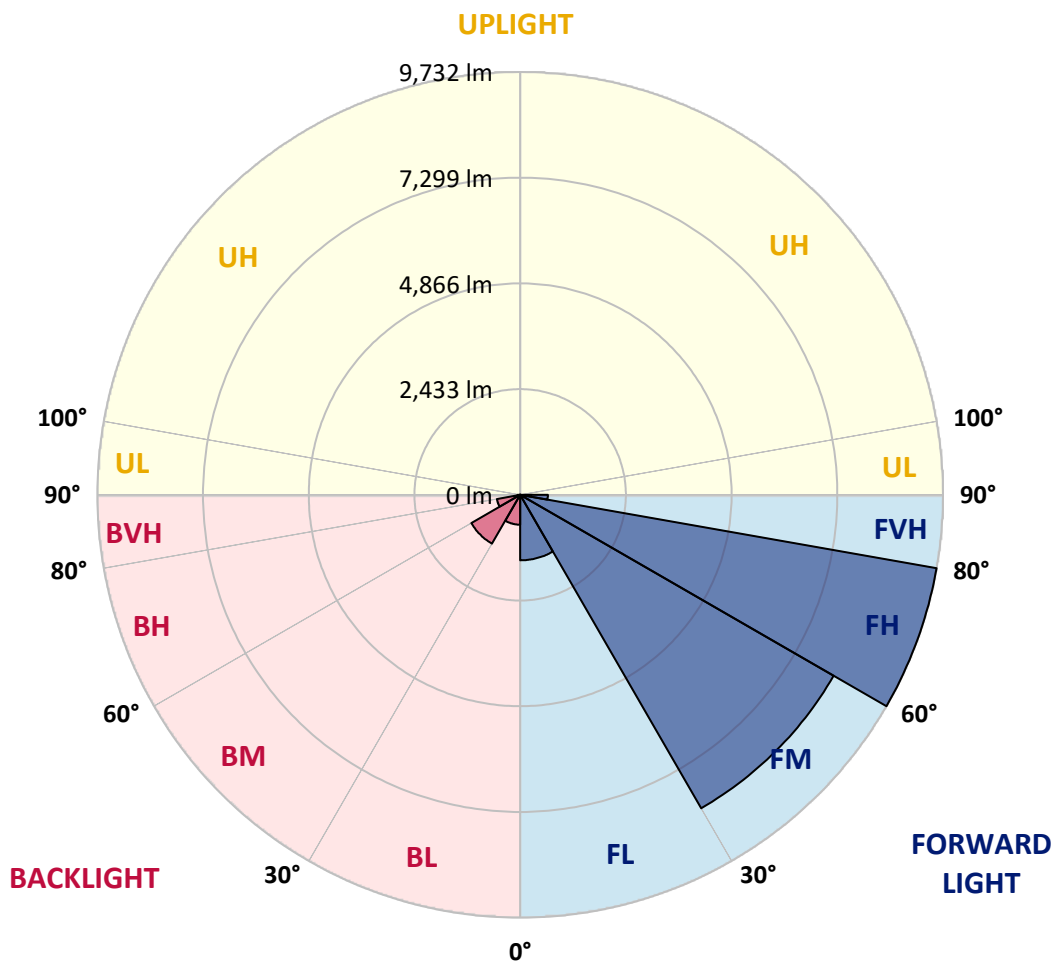
CATALOG NUMBER: GLEON-AF-06-LED-E1-SL4-600

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1507.8	6.6			
FM	(30°-60°)	8330.4	36.5			
FH	(60°-80°)	9731.9	42.7			G4/12000
FVH	(80°-90°)	637.1	2.8			G4/750
BL	(0°-30°)	687.9	3.0	B2/1000		
BM	(30°-60°)	1297.7	5.7	B2/2500		
BH	(60°-80°)	544.4	2.4	B2/1000		G2/1000
BVH	(80°-90°)	63.1	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type IV Short





REPORT NUMBER: P191234

CATALOG NUMBER: GLEON-AF-06-LED-E1-SL4-600

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3461.5	3461.5	3461.5	3461.5	3461.5	3461.5	3461.5	3461.5	3461.5	3461.5	3461.5
2.5°	3528.7	3527.5	3518.2	3511.3	3505.6	3503.2	3507.8	3490.4	3475.4	3456.9	3437.1
5°	3502.1	3500.8	3485.8	3471.9	3458.0	3453.4	3452.2	3421.0	3402.3	3374.5	3337.5
7.5°	3473.0	3467.3	3447.5	3424.4	3400.1	3388.4	3376.9	3336.3	3315.4	3287.6	3244.7
10°	3442.9	3436.0	3417.5	3394.3	3371.0	3353.6	3334.0	3294.5	3272.5	3251.7	3201.8
12.5°	3411.6	3405.8	3401.2	3390.8	3374.5	3359.5	3344.4	3310.8	3287.6	3263.2	3205.3
15°	3407.0	3404.7	3415.1	3422.1	3412.8	3403.6	3387.3	3358.3	3334.0	3309.7	3234.3
17.5°	3444.1	3442.9	3469.5	3488.2	3483.5	3467.3	3445.3	3412.8	3393.1	3372.3	3278.4
20°	3525.2	3531.0	3563.4	3587.8	3564.7	3541.5	3505.6	3460.3	3449.9	3440.6	3323.6
22.5°	3678.2	3684.1	3707.3	3716.5	3656.2	3622.6	3572.8	3514.8	3507.8	3514.8	3378.0
25°	3917.1	3911.3	3907.8	3873.0	3762.9	3710.8	3646.9	3586.7	3590.1	3621.5	3454.5
27.5°	4233.5	4202.2	4153.6	4049.2	3874.1	3816.2	3738.6	3682.9	3704.9	3765.2	3569.3
30°	4561.5	4526.9	4414.3	4243.9	4020.2	3956.5	3869.5	3806.9	3864.9	3959.9	3722.3
32.5°	4865.4	4860.7	4696.1	4476.9	4221.9	4166.3	4079.3	4008.6	4102.5	4247.4	3951.9
35°	5196.9	5207.3	5010.2	4747.1	4494.3	4436.4	4373.8	4320.4	4445.6	4645.0	4284.5
37.5°	5551.6	5572.4	5339.4	5042.6	4805.0	4780.7	4743.6	4720.4	4913.9	5189.9	4749.4
40°	6025.7	6004.8	5681.4	5376.5	5186.5	5185.2	5173.7	5201.5	5523.7	5901.7	5346.4
42.5°	6533.5	6472.0	6044.2	5734.8	5605.0	5644.3	5667.5	5781.1	6257.6	6766.4	6074.4
45°	7080.7	6942.7	6421.0	6113.8	6069.8	6153.3	6232.0	6479.0	7121.2	7750.7	6872.0
47.5°	7517.7	7384.4	6810.5	6511.4	6607.6	6734.0	6885.9	7276.6	8088.0	8767.3	7659.0
50°	7861.9	7775.0	7203.5	6975.1	7200.0	7394.8	7642.9	8179.5	9094.2	9757.3	8388.2
52.5°	8195.8	8130.9	7599.9	7450.4	7895.5	8164.5	8501.8	9148.7	10125.9	10731.1	9001.5
55°	8497.2	8450.8	8026.6	8042.7	8714.0	9064.1	9488.4	10252.3	11250.4	11599.3	9520.8
57.5°	8836.9	8777.7	8513.4	8785.8	9765.4	10219.8	10771.6	11492.6	12305.3	12371.4	9916.1
60°	9178.8	9127.8	9053.6	9643.7	11100.9	11578.5	12101.3	12694.8	13375.3	12970.7	9893.0
62.5°	9475.6	9481.4	9612.4	10544.4	12408.5	12961.4	13599.0	14185.6	14343.2	13075.1	9161.4
65°	9978.7	10070.2	10460.9	11819.6	14249.3	14988.9	15771.4	15677.5	14611.0	12100.1	7593.0
67.5°	10576.9	10738.0	11529.8	13519.0	16575.9	17557.8	17860.3	16014.8	13538.8	9836.1	5412.4
70°	10516.5	10738.0	11991.1	14786.0	18493.3	19151.7	18233.6	14493.9	10750.7	6425.7	2874.9
72.5°	9338.8	9655.2	11051.0	14205.3	17889.4	17831.4	15829.3	10805.2	6387.4	2580.5	1123.3
75°	7117.7	7437.7	8638.6	11222.6	14139.2	13652.3	11231.8	5968.9	2424.0	1024.8	708.3
77.5°	4094.5	4342.5	5269.8	6882.4	8970.2	8470.5	6251.8	2654.7	1180.1	714.1	552.9
80°	2286.0	2424.0	2987.3	3491.6	4395.8	4029.5	2797.3	1649.6	881.1	518.2	426.6
82.5°	1807.2	1930.1	2415.8	2202.5	2007.7	1852.5	1606.7	1468.8	703.7	326.9	255.0
85°	1578.9	1696.0	2044.9	1734.2	1371.4	1257.8	1305.3	1445.5	547.2	197.0	217.9
87.5°	1462.9	1619.4	1822.3	1336.6	1067.7	945.9	1204.4	1584.7	176.3	122.9	88.1
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: P191234

CATALOG NUMBER: GLEON-AF-06-LED-E1-SL4-600

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3461.5	3461.5	3461.5	3461.5	3461.5	3461.5	3461.5	3461.5	3461.5	3461.5	3461.5
2.5°	3419.7	3401.2	3371.0	3344.4	3302.7	3280.6	3256.3	3238.9	3225.0	3213.4	3231.9
5°	3314.3	3279.5	3215.7	3147.3	3066.2	3002.5	2949.1	2899.2	2864.5	2841.2	2857.5
7.5°	3214.5	3157.7	3058.1	2934.0	2794.9	2676.7	2579.3	2493.5	2434.4	2396.2	2411.2
10°	3157.7	3087.1	2932.9	2738.1	2532.9	2348.6	2195.6	2063.4	1971.8	1919.7	1927.9
12.5°	3143.8	3052.3	2839.0	2571.2	2290.7	2034.4	1818.8	1635.7	1507.0	1439.8	1442.1
15°	3154.3	3037.2	2750.8	2411.2	2056.4	1733.1	1464.1	1241.6	1092.0	1015.5	1014.4
17.5°	3171.7	3025.6	2658.1	2238.5	1818.8	1443.3	1143.0	925.1	792.9	731.5	726.8
20°	3190.2	3007.1	2553.8	2051.8	1572.0	1174.3	895.0	724.6	641.1	607.4	605.1
22.5°	3216.9	2990.8	2446.0	1854.8	1329.6	956.4	736.1	621.3	577.3	559.9	557.6
25°	3259.7	2982.7	2331.2	1649.6	1111.7	799.8	641.1	570.3	544.8	533.3	532.1
27.5°	3331.6	2994.3	2223.4	1450.2	934.4	694.4	587.7	544.8	526.3	515.9	514.7
30°	3424.4	3030.3	2109.8	1261.3	796.4	622.5	555.3	527.4	512.4	502.0	502.0
32.5°	3578.6	3090.5	1990.5	1097.8	697.9	572.6	530.9	512.4	499.6	491.5	490.4
35°	3805.8	3204.1	1879.2	962.2	627.2	536.7	510.0	496.1	486.9	482.2	482.2
37.5°	4136.2	3383.8	1780.5	864.8	584.2	512.4	490.4	480.0	474.1	474.1	474.1
40°	4580.2	3631.9	1700.6	799.8	559.9	495.0	475.3	467.2	463.7	464.8	464.8
42.5°	5128.5	3954.1	1647.3	754.6	548.3	484.6	464.8	457.9	454.4	453.3	454.4
45°	5753.3	4320.4	1641.4	721.1	536.7	477.6	457.9	450.9	444.0	439.4	439.4
47.5°	6360.7	4692.6	1689.0	709.4	524.0	469.5	452.1	445.2	434.8	424.3	424.3
50°	6897.5	5009.1	1752.7	714.1	519.4	457.9	442.8	439.4	423.1	411.5	410.4
52.5°	7324.0	5252.5	1804.9	728.0	524.0	449.8	431.3	432.4	415.0	402.2	401.1
55°	7666.0	5412.4	1791.0	741.9	534.4	445.2	420.8	423.1	409.2	396.5	396.5
57.5°	7815.5	5353.3	1636.8	730.3	542.6	446.3	412.7	422.0	410.4	398.7	398.7
60°	7494.4	4828.2	1348.1	679.3	532.1	442.8	409.2	426.6	425.4	413.9	412.7
62.5°	6523.1	3888.0	1045.7	604.0	496.1	425.4	400.0	425.4	438.2	434.8	433.5
65°	5027.6	2769.4	798.7	522.8	447.4	396.5	375.6	398.7	416.1	420.8	419.6
67.5°	3263.2	1697.1	615.5	446.3	393.0	362.8	344.3	354.8	358.2	358.2	355.9
70°	1604.4	913.5	490.4	375.6	337.4	326.9	316.5	310.7	304.8	300.2	300.2
72.5°	791.8	597.0	403.5	317.6	290.9	286.3	284.0	277.0	272.4	266.6	264.3
75°	585.4	485.7	343.1	267.8	250.4	245.7	250.4	244.6	243.5	238.8	236.5
77.5°	481.1	413.9	295.6	229.6	214.4	206.3	213.3	214.4	215.6	208.7	206.3
80°	390.7	350.1	246.9	190.1	176.3	170.4	175.0	184.3	186.6	176.3	171.5
82.5°	281.7	286.3	199.4	148.4	136.8	132.2	141.5	153.0	155.4	140.2	136.8
85°	236.5	238.8	153.0	105.5	93.9	87.0	102.0	113.6	121.7	106.7	103.2
87.5°	98.5	140.2	88.1	59.1	52.2	45.2	54.5	60.3	73.0	67.2	66.1
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)