

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: P191094

Luminaire Tested: **GLEON-AF-06-LED-E1-SL2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191094  
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-06-LED-E1-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 4000K, 1050mA 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: 35677.4 lumens  
Efficiency: N/A  
Efficacy: 107.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G5

Input Watts (W): 333  
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

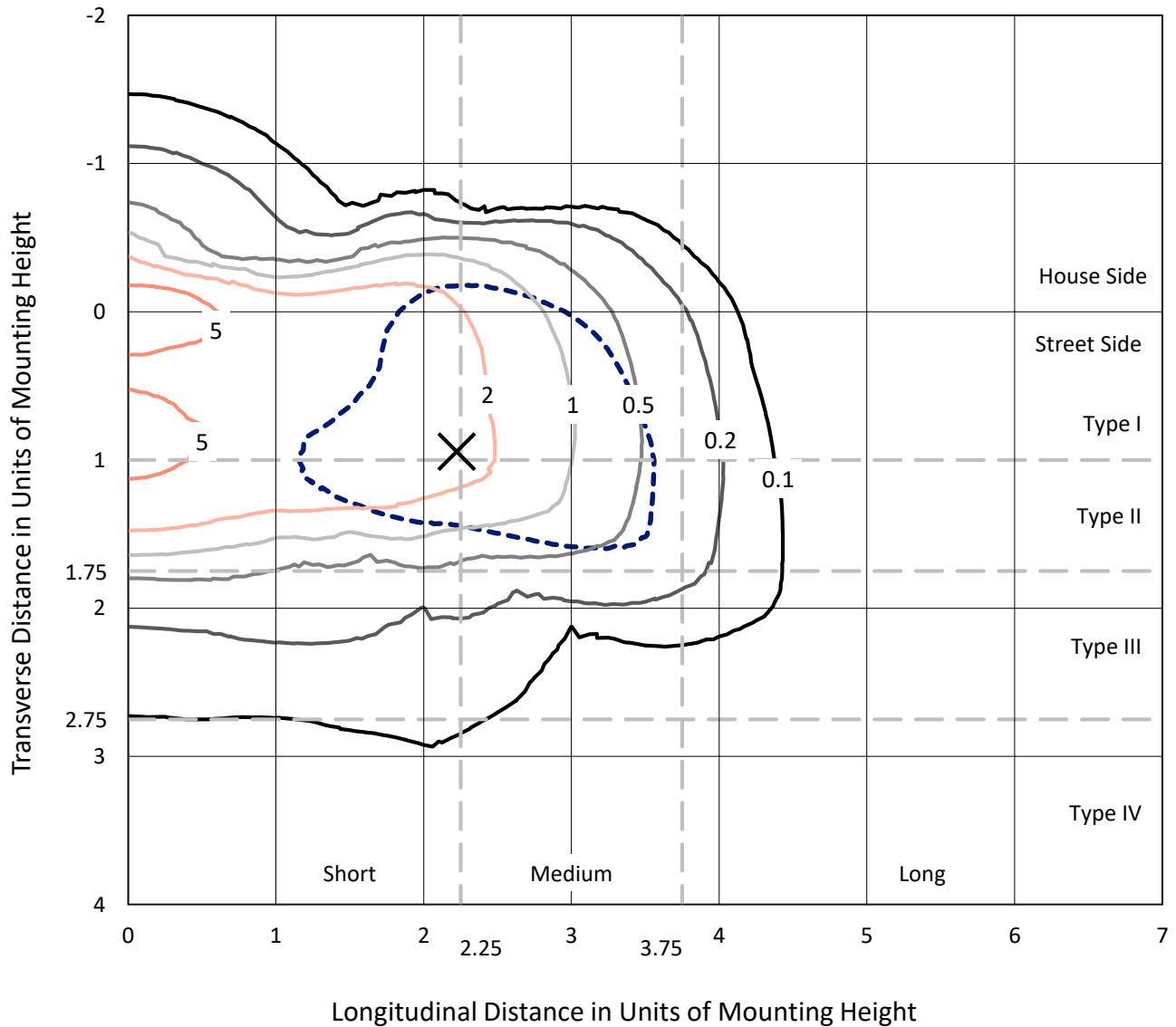


REPORT NUMBER: P191094

CATALOG NUMBER: GLEON-AF-06-LED-E1-SL2

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

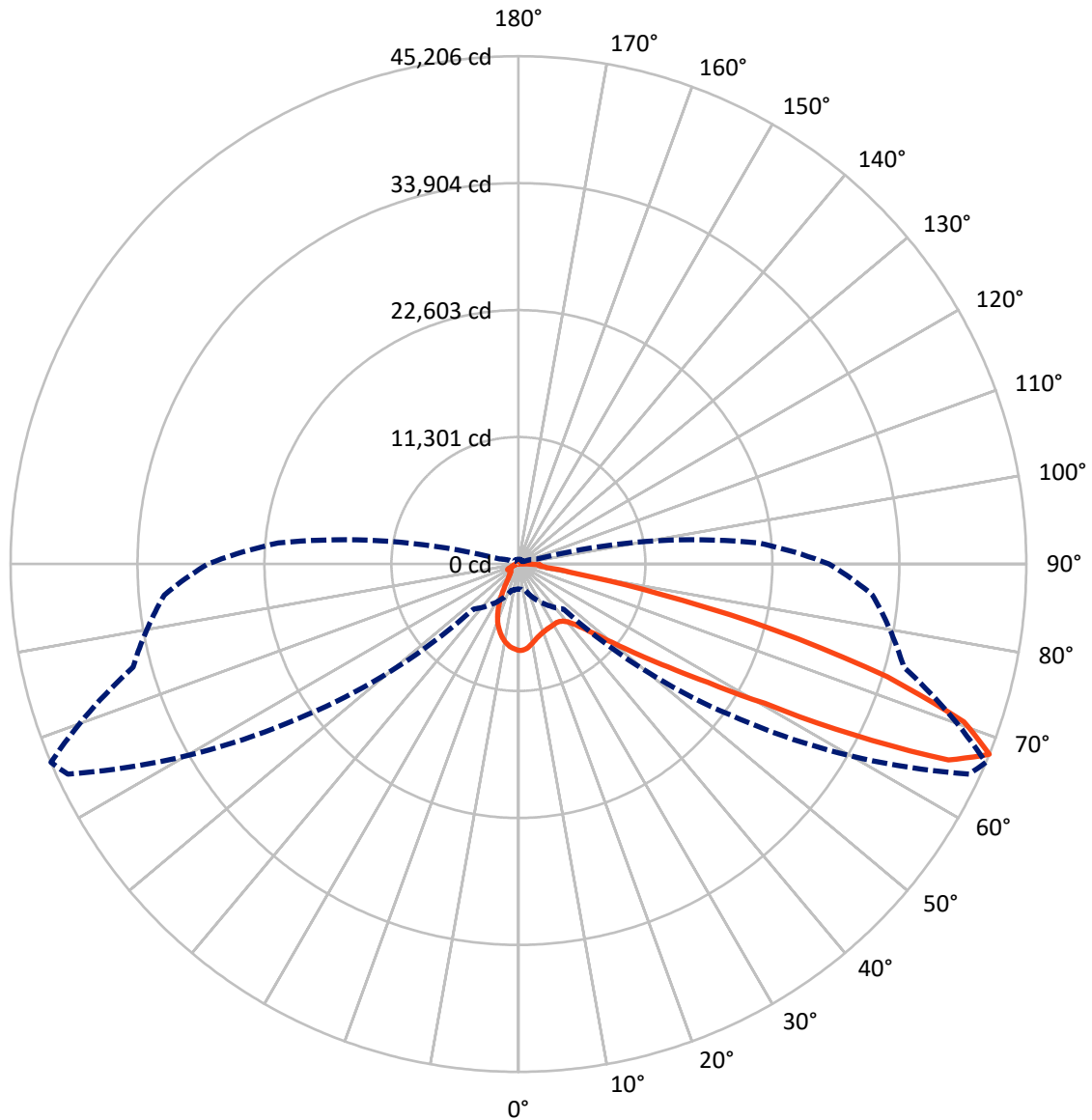


Based on 30 foot mounting height. Maximum calculated value = 8.6 fc  
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P191094

CATALOG NUMBER: GLEON-AF-06-LED-E1-SL2

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P191094

CATALOG NUMBER: GLEON-AF-06-LED-E1-SL2

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5911.4	0.0	5911.4
	% Fixture	16.6	0.0	16.6
<b>Street Side</b>	Lumens	29766.1	0.0	29766.1
	% Fixture	83.4	0.0	83.4
<b>Total</b>	Lumens	35677.4	0.0	35677.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	656.6	1.8
10°-20°	1519.1	4.3
20°-30°	2059.2	5.8
30°-40°	2927.4	8.2
40°-50°	4897.7	13.7
50°-60°	7748.0	21.7
60°-70°	9870.2	27.7
70°-80°	5170.0	14.5
80°-90°	829.2	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°	35677.4	100.0
0°-180°	35677.4	100.0

**Coefficient of Utilization**



REPORT NUMBER: P191094

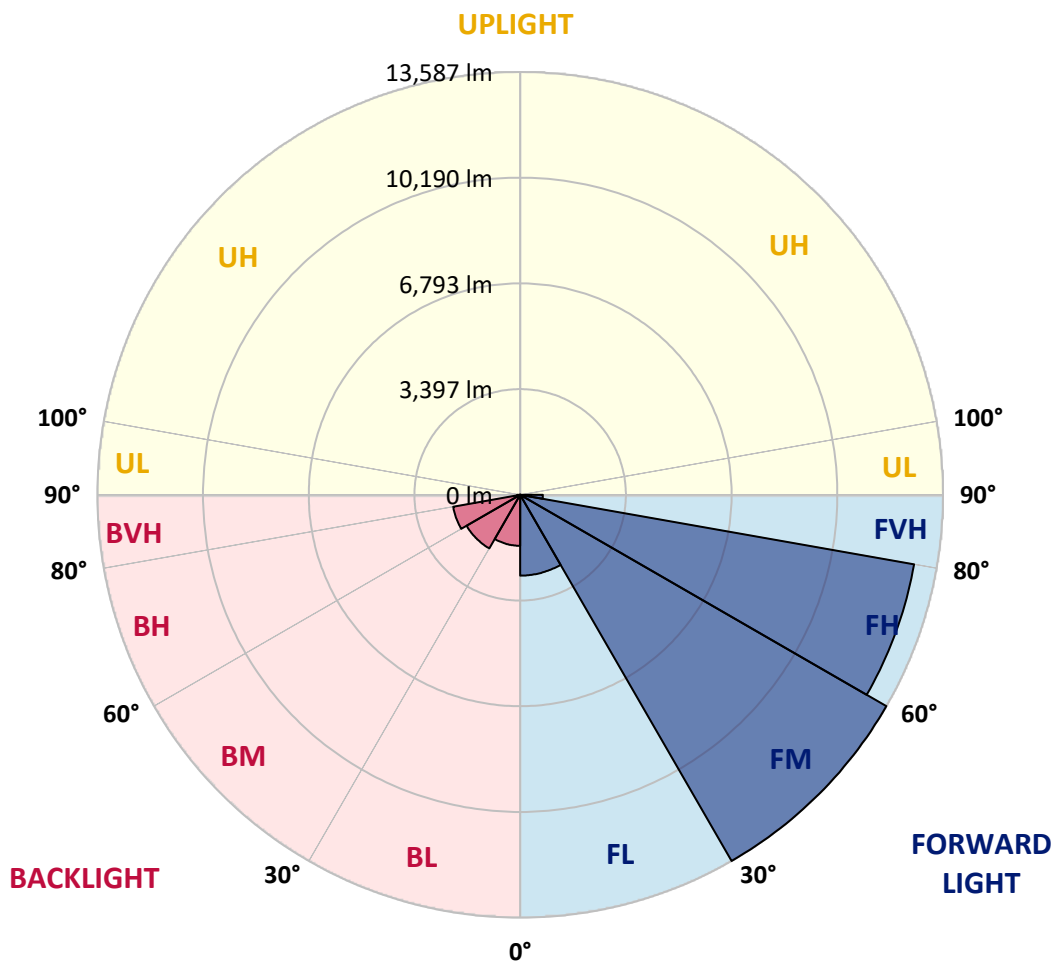
CATALOG NUMBER: GLEON-AF-06-LED-E1-SL2

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2596.4	7.3			
FM (30°-60°)	13586.7	38.1			
FH (60°-80°)	12853.8	36.0			G5
FVH (80°-90°)	729.1	2.0			G4/750
BL (0°-30°)	1638.5	4.6	B3/2500		
BM (30°-60°)	1986.4	5.6	B2/2500		
BH (60°-80°)	2186.4	6.1	B3/2500		G3/2500
BVH (80°-90°)	100.1	0.3			G2/225
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: P191094

CATALOG NUMBER: GLEON-AF-06-LED-E1-SL2

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	7695.6	7695.6	7695.6	7695.6	7695.6	7695.6	7695.6	7695.6	7695.6	7695.6	7695.6
2.5°	7378.9	7391.1	7429.9	7454.5	7565.3	7612.8	7646.3	7679.7	7685.0	7700.8	7685.0
5°	6604.7	6631.1	6703.3	6784.2	6998.8	7167.7	7345.4	7530.1	7563.6	7683.2	7716.6
7.5°	6004.8	5997.8	6057.5	6154.3	6374.2	6608.3	6919.6	7287.4	7359.5	7628.7	7758.9
10°	5566.7	5561.4	5624.8	5725.0	5934.4	6156.1	6507.9	7011.1	7113.2	7542.5	7799.4
12.5°	5242.9	5244.7	5308.1	5418.9	5631.8	5855.3	6212.4	6743.7	6873.9	7442.2	7841.5
15°	5028.3	5042.4	5093.4	5211.3	5418.9	5642.3	5992.4	6543.1	6689.2	7363.0	7889.1
17.5°	4956.2	4979.0	4996.6	5082.8	5260.5	5484.0	5827.0	6395.4	6550.2	7308.5	7931.3
20°	5023.0	5049.4	5016.0	5045.9	5158.5	5355.6	5696.9	6279.3	6437.5	7246.9	7936.6
22.5°	5309.8	5334.5	5236.0	5149.7	5142.7	5262.3	5589.6	6187.7	6351.4	7201.2	7938.3
25°	5814.8	5830.6	5665.2	5464.6	5269.3	5228.9	5513.9	6124.4	6298.6	7160.7	7905.0
27.5°	6434.1	6446.3	6256.4	5960.8	5568.4	5308.1	5487.5	6087.5	6268.6	7125.5	7848.6
30°	7187.0	7245.2	6990.0	6617.1	6045.2	5542.0	5540.3	6068.1	6235.3	7065.7	7737.8
32.5°	7957.6	7982.3	7806.3	7428.2	6687.4	5953.8	5688.1	6082.2	6226.5	6993.5	7597.0
35°	8738.9	8770.5	8656.2	8351.8	7565.3	6557.2	5976.6	6164.9	6281.0	6969.0	7498.5
37.5°	9750.5	9792.7	9634.4	9282.5	8633.3	7375.4	6457.0	6372.5	6448.2	7039.3	7468.6
40°	11349.7	11330.4	10867.7	10343.4	9801.5	8422.2	7143.1	6724.4	6768.4	7266.2	7560.1
42.5°	13211.2	13163.7	12366.7	11543.3	11085.8	9688.9	8050.9	7334.9	7326.1	7713.2	7882.0
45°	14696.1	14657.5	13939.5	12924.5	12558.5	11131.6	9224.5	8244.5	8179.4	8422.2	8476.7
47.5°	15500.2	15501.9	15088.4	14259.8	14251.0	12964.9	10732.2	9560.5	9447.9	9562.2	9504.2
50°	15218.6	15255.6	15211.6	14947.7	15795.7	15368.2	12701.0	11395.6	11168.6	11281.2	11057.7
52.5°	13856.9	13904.4	14164.8	14569.5	16445.0	18273.0	15593.5	13675.7	13411.8	13371.3	13123.2
55°	11443.0	11501.0	12032.5	13132.0	15904.8	20224.1	20157.2	16582.1	16161.7	15779.9	15674.4
57.5°	7887.4	7984.0	8839.1	10471.8	14157.7	20813.5	25592.0	20725.5	19870.5	18536.9	18561.4
60°	4445.9	4558.6	5566.7	7049.9	10631.9	20173.1	29726.5	27001.2	25196.1	21765.3	21948.3
62.5°	2827.3	2948.8	3714.0	4898.1	6379.5	16724.7	31420.9	35726.0	33433.5	25745.0	25924.5
65°	2289.0	2341.7	2702.4	4043.1	4632.4	10076.0	30134.7	42913.1	42058.0	30796.2	29958.8
67.5°	2234.4	2252.0	2438.5	3393.8	4442.5	5663.5	24036.7	44257.3	45205.6	35513.2	31638.9
70°	2208.0	2269.6	2748.2	3239.1	4254.1	4776.8	14444.6	40573.1	42070.4	36746.4	29402.8
72.5°	1071.4	1068.0	1382.8	2929.3	4792.5	4954.5	7421.1	32828.3	34330.8	31836.1	24161.6
75°	863.9	789.9	754.7	1073.2	4607.8	5116.3	4729.2	22588.7	23676.0	21344.8	14852.7
77.5°	819.9	731.9	670.3	672.1	1947.6	5425.9	4006.1	12502.2	12818.9	9641.4	4069.5
80°	679.1	598.2	554.2	624.6	943.1	5167.3	4331.6	5658.1	5192.0	2368.1	1354.7
82.5°	471.5	429.3	417.0	524.3	754.7	3682.4	5037.1	3040.2	2549.3	1185.8	835.8
85°	300.8	256.9	285.0	381.8	587.6	1699.5	5188.4	2369.9	1884.3	753.0	471.5
87.5°	139.0	112.6	140.8	211.1	383.5	585.8	4936.9	2661.9	1940.6	397.6	297.4
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: P191094

CATALOG NUMBER: GLEON-AF-06-LED-E1-SL2

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7695.6	7695.6	7695.6	7695.6	7695.6	7695.6	7695.6	7695.6	7695.6	7695.6	7695.6
2.5°	7699.0	7665.6	7639.2	7590.0	7535.5	7482.7	7435.1	7375.4	7357.8	7341.9	7366.6
5°	7723.7	7690.2	7593.5	7442.2	7275.0	7118.5	6961.9	6828.2	6745.4	6699.7	6726.1
7.5°	7760.6	7713.2	7512.6	7234.6	6933.8	6659.3	6376.1	6149.1	5981.9	5902.7	5925.6
10°	7794.1	7702.6	7375.4	6958.3	6518.5	6110.3	5663.5	5294.0	5019.5	4875.3	4910.5
12.5°	7808.2	7662.1	7183.6	6613.5	6010.0	5411.8	4753.9	4201.4	3807.3	3663.1	3633.1
15°	7822.2	7616.4	6972.4	6221.2	5396.1	4549.8	3627.9	2966.4	2639.1	2566.9	2551.1
17.5°	7825.8	7537.2	6733.2	5795.4	4676.4	3524.1	2480.8	2060.2	2062.0	2178.1	2192.2
20°	7788.7	7419.4	6442.9	5265.8	3814.4	2436.8	1703.1	1631.0	1896.7	2186.9	2222.1
22.5°	7704.4	7262.7	6113.9	4648.3	2827.3	1604.6	1317.8	1396.9	1740.0	2095.4	2135.9
25°	7597.0	7072.7	5725.0	3932.2	1872.0	1147.1	1104.9	1201.7	1433.9	1671.4	1694.3
27.5°	7451.0	6847.5	5288.7	3112.3	1215.8	944.8	972.9	1038.0	1133.0	1238.6	1249.1
30°	7262.7	6578.3	4822.5	2269.6	918.4	849.8	890.3	925.5	965.9	1025.7	1031.0
32.5°	7046.3	6319.7	4344.0	1567.6	814.6	800.6	832.2	849.8	881.5	918.4	921.9
35°	6865.1	6073.4	3847.7	1108.4	770.6	763.5	784.7	791.8	821.6	862.1	865.6
37.5°	6761.3	5872.9	3335.7	893.8	740.7	730.2	742.5	742.5	784.7	844.5	853.3
40°	6768.4	5762.0	2823.9	807.5	716.1	701.9	703.8	703.8	758.3	823.4	828.7
42.5°	6960.2	5790.1	2369.9	774.2	696.7	680.9	672.1	677.4	723.1	765.4	768.8
45°	7410.6	5989.0	1944.1	753.0	677.4	672.1	652.7	651.0	668.6	687.9	687.9
47.5°	8149.4	6381.3	1655.5	739.0	661.5	659.8	636.9	614.0	612.2	619.3	619.3
50°	9351.1	7056.9	1462.0	723.1	651.0	636.9	610.5	575.3	563.0	568.2	568.2
52.5°	11152.7	8262.1	1388.1	701.9	628.1	605.2	575.3	540.1	529.6	531.3	531.3
55°	13515.5	10112.9	1377.6	677.4	603.4	566.5	541.9	515.5	503.2	506.7	506.7
57.5°	16402.7	12672.8	1565.8	638.6	570.1	527.8	513.7	496.1	487.3	492.7	490.9
60°	19912.7	16022.7	2322.4	598.2	536.6	492.7	492.7	478.5	471.5	476.8	475.1
62.5°	23955.8	19870.5	3265.5	568.2	501.5	464.5	471.5	464.5	457.5	460.9	459.2
65°	27541.4	22377.6	3057.8	545.4	466.3	438.1	450.4	446.9	441.6	445.1	443.3
67.5°	27645.1	21448.6	1717.1	520.8	432.8	411.7	429.3	427.5	424.0	427.5	425.8
70°	24671.8	18111.0	967.7	475.1	397.6	380.0	404.7	402.9	399.4	406.4	404.7
72.5°	19766.7	13142.6	707.3	418.7	362.4	346.6	374.7	373.0	373.0	383.5	378.3
75°	11374.4	6763.0	564.8	359.0	325.5	313.1	337.8	339.5	343.1	357.1	346.6
77.5°	3242.5	2107.8	460.9	304.3	279.8	274.5	299.1	302.6	304.3	320.2	306.2
80°	1205.1	971.2	380.0	255.1	228.7	230.5	253.4	258.6	260.3	276.2	258.6
82.5°	768.8	640.4	307.9	197.0	179.4	177.7	205.8	212.9	212.9	214.6	204.1
85°	448.7	383.5	232.2	142.5	126.6	121.4	153.0	165.4	160.1	156.6	149.6
87.5°	300.8	263.9	142.5	79.2	68.6	65.1	89.7	98.5	95.0	89.7	84.5
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)