

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: P191087

Luminaire Tested: **GLEON-AF-09-LED-E1-SL2-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191087  
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-SL2-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 4000K, 800mA 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: 43084.6 lumens  
Efficiency: N/A  
Efficacy: 115.2 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B4 - U0 - G5

Input Watts (W): 374  
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

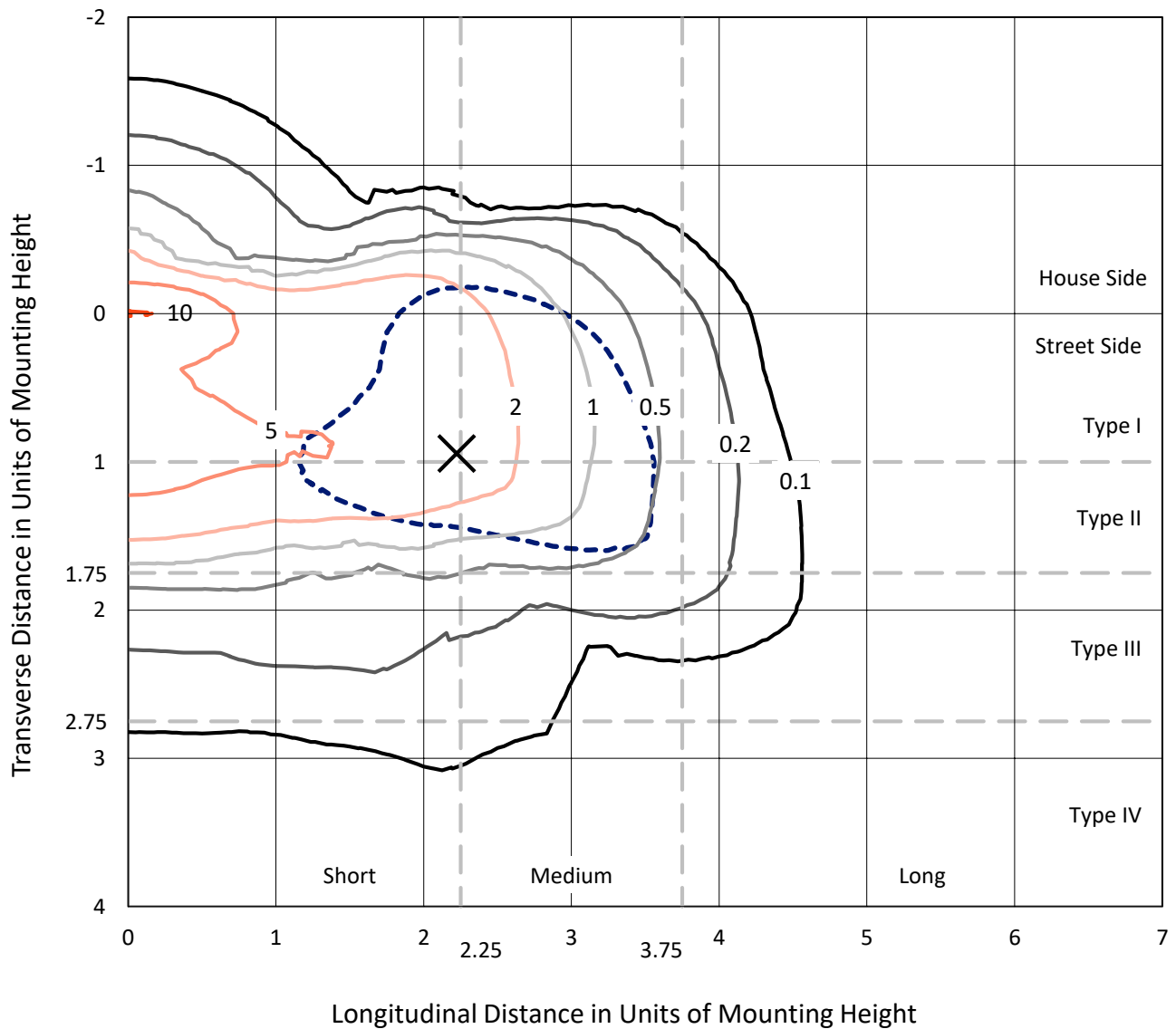


REPORT NUMBER: P191087

CATALOG NUMBER: GLEON-AF-09-LED-E1-SL2-800

### Iso-Footcandle Lines of Horizontal Illumination

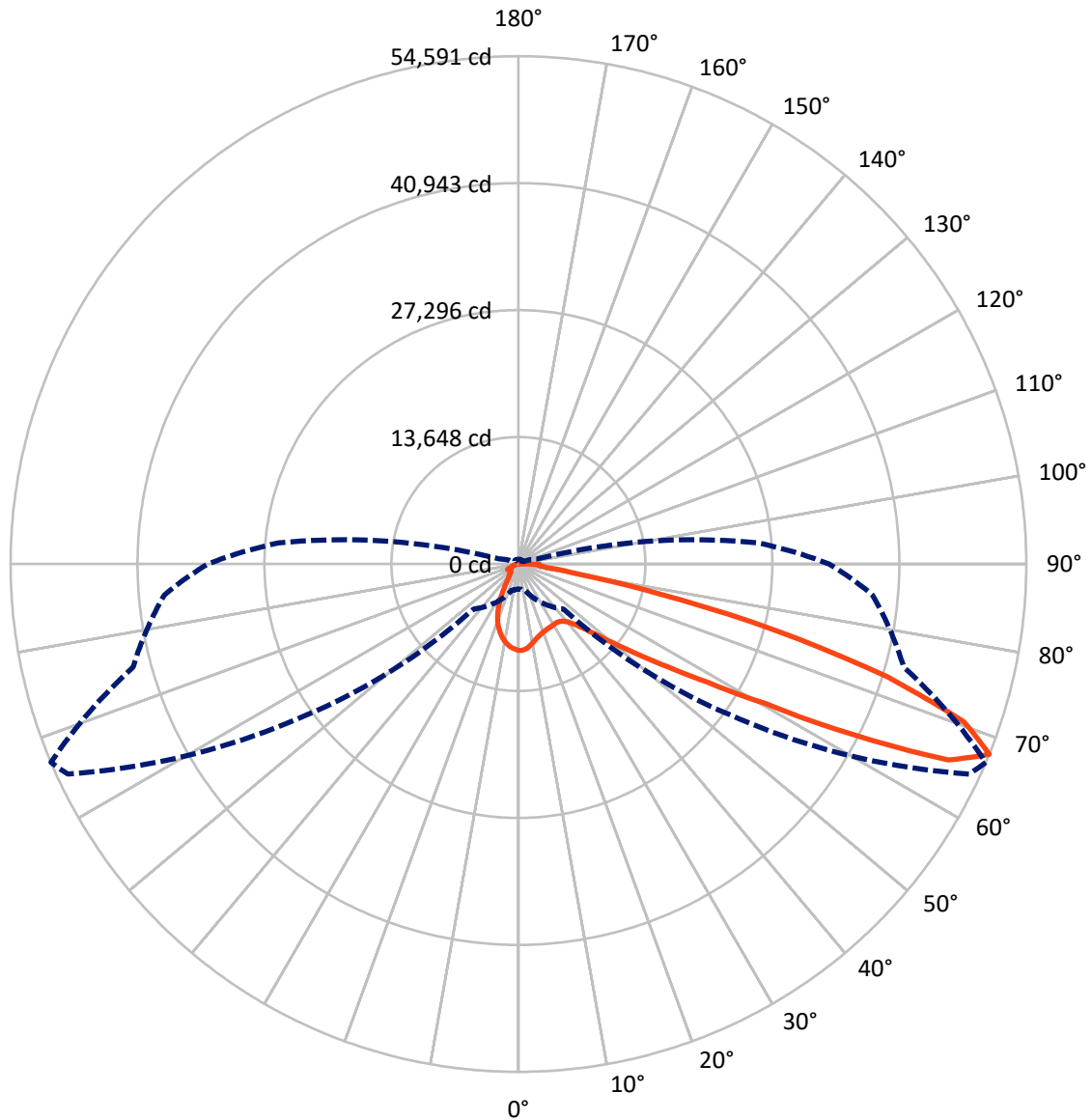
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.3 fc  
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P191087  
CATALOG NUMBER: GLEON-AF-09-LED-E1-SL2-800

### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7138.6	0.0	7138.6
	% Fixture	16.6	0.0	16.6
<b>Street Side</b>	Lumens	35946.0	0.0	35946.0
	% Fixture	83.4	0.0	83.4
<b>Total</b>	Lumens	43084.6	0.0	43084.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	792.9	1.8
10°-20°	1834.5	4.3
20°-30°	2486.7	5.8
30°-40°	3535.2	8.2
40°-50°	5914.5	13.7
50°-60°	9356.7	21.7
60°-70°	11919.4	27.7
70°-80°	6243.4	14.5
80°-90°	1001.3	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°	43084.6	100.0
0°-180°	43084.6	100.0

**Coefficient of Utilization**



REPORT NUMBER: P191087

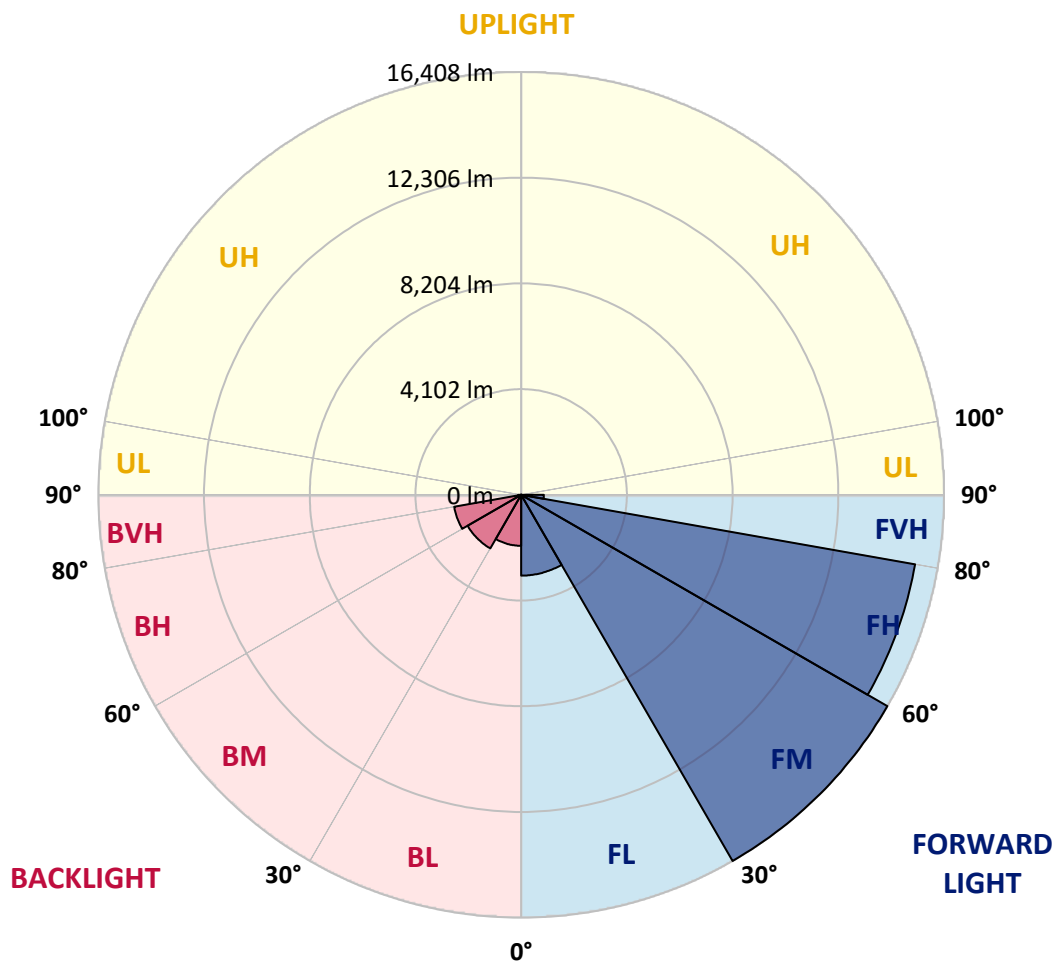
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3135.5	7.3			
FM (30°-60°)	16407.5	38.1			
FH (60°-80°)	15522.5	36.0			G5
FVH (80°-90°)	880.5	2.0			G5
BL (0°-30°)	1978.6	4.6	B3/2500		
BM (30°-60°)	2398.8	5.6	B2/2500		
BH (60°-80°)	2640.3	6.1	B4/5000		G4/5000
BVH (80°-90°)	120.9	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type II Short





REPORT NUMBER: P191087

CATALOG NUMBER: GLEON-AF-09-LED-E1-SL2-800

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	9293.2	9293.2	9293.2	9293.2	9293.2	9293.2	9293.2	9293.2	9293.2	9293.2	9293.2
2.5°	8910.8	8925.7	8972.4	9002.2	9136.1	9193.4	9233.8	9274.2	9280.5	9299.6	9280.5
5°	7975.9	8007.9	8094.9	8192.7	8451.9	8655.9	8870.4	9093.5	9133.9	9278.4	9318.8
7.5°	7251.5	7243.0	7315.2	7432.0	7697.6	7980.2	8356.3	8800.3	8887.4	9212.5	9369.7
10°	6722.4	6716.1	6792.5	6913.6	7166.5	7434.2	7859.1	8466.8	8590.0	9108.5	9418.6
12.5°	6331.5	6333.6	6410.1	6543.9	6801.0	7070.8	7502.1	8143.8	8301.0	8987.3	9469.6
15°	6072.2	6089.3	6150.9	6293.2	6543.9	6813.8	7236.6	7901.6	8077.9	8891.7	9526.9
17.5°	5985.2	6012.8	6034.0	6138.1	6352.7	6622.6	7036.9	7723.2	7910.1	8825.8	9578.0
20°	6065.9	6097.8	6057.4	6093.5	6229.5	6467.5	6879.7	7582.9	7774.1	8751.4	9584.3
22.5°	6412.3	6441.9	6323.0	6218.8	6210.3	6354.9	6750.0	7472.5	7670.0	8696.2	9586.5
25°	7021.9	7041.1	6841.4	6599.2	6363.4	6314.5	6658.7	7395.9	7606.3	8647.3	9546.1
27.5°	7769.8	7784.8	7555.3	7198.3	6724.6	6410.1	6626.8	7351.3	7570.1	8604.9	9478.0
30°	8679.2	8749.3	8441.3	7990.9	7300.3	6692.7	6690.5	7327.9	7529.7	8532.6	9344.2
32.5°	9609.8	9639.6	9427.1	8970.3	8075.8	7189.8	6869.0	7345.0	7519.2	8445.5	9174.2
35°	10553.2	10591.4	10453.3	10085.8	9136.1	7918.6	7217.4	7444.8	7585.1	8415.8	9055.3
37.5°	11774.9	11825.8	11634.6	11209.7	10425.7	8906.5	7797.4	7695.6	7786.9	8500.7	9019.2
40°	13706.2	13682.8	13124.0	12490.8	11836.5	10170.7	8626.1	8120.5	8173.6	8774.9	9129.6
42.5°	15954.0	15896.7	14934.3	13939.9	13387.5	11700.5	9722.4	8857.7	8847.1	9314.5	9518.5
45°	17747.3	17700.5	16833.7	15607.8	15165.8	13442.7	11139.6	9956.2	9877.5	10170.7	10236.6
47.5°	18718.3	18720.3	18221.1	17220.4	17209.7	15656.6	12960.4	11545.4	11409.4	11547.5	11477.4
50°	18378.3	18422.9	18369.7	18051.1	19075.2	18558.9	15337.9	13761.5	13487.3	13623.4	13353.5
52.5°	16733.8	16791.1	17105.6	17594.2	19859.2	22066.7	18830.9	16514.9	16196.3	16147.4	15847.9
55°	13818.7	13888.9	14530.5	15858.4	19206.9	24423.0	24342.2	20024.9	19517.1	19056.0	18928.6
57.5°	9524.8	9641.7	10674.3	12645.9	17097.1	25134.7	30905.3	25028.4	23995.9	22385.4	22415.1
60°	5369.1	5505.0	6722.4	8513.5	12839.3	24361.4	35898.2	32607.1	30427.3	26284.1	26505.1
62.5°	3414.3	3560.9	4485.1	5915.0	7704.0	20197.0	37944.2	43143.3	40374.8	31090.1	31306.8
65°	2764.2	2827.9	3263.5	4882.4	5594.2	12167.9	36391.2	51822.5	50789.9	37190.0	36178.7
67.5°	2698.3	2719.5	2944.8	4098.5	5364.8	6839.2	29027.0	53445.8	54591.0	42886.2	38207.7
70°	2666.4	2740.8	3318.8	3911.5	5137.5	5768.4	17443.5	48996.7	50804.9	44375.6	35507.2
72.5°	1293.9	1289.6	1670.0	3537.6	5787.5	5983.0	8961.8	39643.9	41458.5	38445.7	29177.9
75°	1043.2	954.0	911.4	1296.1	5564.4	6178.5	5711.0	27278.5	28591.5	25776.3	17936.3
77.5°	990.1	883.8	809.5	811.6	2352.0	6552.4	4837.8	15097.8	15480.2	11643.1	4914.4
80°	820.1	722.4	669.3	754.2	1138.9	6240.1	5230.9	6832.9	6269.9	2859.8	1636.0
82.5°	569.4	518.4	503.5	633.1	911.4	4446.9	6082.9	3671.4	3078.7	1432.0	1009.2
85°	363.4	310.2	344.2	461.0	709.6	2052.4	6265.6	2861.9	2275.6	909.4	569.4
87.5°	167.9	136.0	170.0	254.9	463.2	707.5	5961.8	3214.6	2343.5	480.2	359.1
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: P191087

CATALOG NUMBER: GLEON-AF-09-LED-E1-SL2-800

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9293.2	9293.2	9293.2	9293.2	9293.2	9293.2	9293.2	9293.2	9293.2	9293.2	9293.2
2.5°	9297.5	9257.1	9225.3	9165.7	9099.9	9036.1	8978.8	8906.5	8885.4	8866.2	8896.0
5°	9327.3	9286.9	9170.0	8987.3	8785.4	8596.4	8407.2	8245.8	8146.0	8090.7	8122.5
7.5°	9371.9	9314.5	9072.2	8736.6	8373.3	8041.8	7699.8	7425.7	7223.9	7128.2	7155.8
10°	9412.3	9301.8	8906.5	8403.0	7871.8	7379.0	6839.2	6393.1	6061.6	5887.4	5929.9
12.5°	9429.3	9252.9	8674.9	7986.6	7257.8	6535.4	5740.8	5073.6	4597.8	4423.5	4387.4
15°	9446.2	9197.7	8420.0	7512.8	6516.3	5494.4	4381.1	3582.2	3187.0	3099.8	3080.7
17.5°	9450.4	9102.0	8131.0	6998.6	5647.3	4255.7	2995.8	2488.0	2490.1	2630.3	2647.3
20°	9405.8	8959.7	7780.5	6359.1	4606.2	2942.6	2056.6	1969.6	2290.4	2641.0	2683.4
22.5°	9303.8	8770.6	7383.1	5613.3	3414.3	1937.7	1591.4	1686.9	2101.2	2530.5	2579.4
25°	9174.2	8541.1	6913.6	4748.6	2260.6	1385.3	1334.2	1451.2	1731.5	2018.4	2046.0
27.5°	8997.9	8269.1	6386.7	3758.5	1468.1	1140.9	1175.0	1253.5	1368.3	1495.8	1508.5
30°	8770.6	7944.1	5823.7	2740.8	1109.1	1026.2	1075.1	1117.6	1166.5	1238.7	1245.0
32.5°	8509.2	7631.7	5245.8	1893.1	983.7	966.7	1004.9	1026.2	1064.5	1109.1	1113.3
35°	8290.4	7334.4	4646.7	1338.5	930.6	922.1	947.6	956.0	992.3	1041.1	1045.4
37.5°	8165.1	7092.1	4028.4	1079.3	894.5	881.8	896.6	896.6	947.6	1019.9	1030.4
40°	8173.6	6958.2	3410.1	975.2	864.7	847.7	849.9	849.9	915.7	994.3	1000.8
42.5°	8405.2	6992.3	2861.9	934.9	841.4	822.2	811.6	818.0	873.2	924.2	928.4
45°	8949.1	7232.4	2347.8	909.4	818.0	811.6	788.3	786.1	807.4	830.7	830.7
47.5°	9841.4	7706.1	1999.3	892.3	798.8	796.8	769.2	741.5	739.4	747.9	747.9
50°	11292.6	8522.0	1765.6	873.2	786.1	769.2	737.2	694.8	679.9	686.3	686.3
52.5°	13468.2	9977.4	1676.3	847.7	758.5	730.9	694.8	652.2	639.5	641.7	641.7
55°	16321.6	12212.5	1663.6	818.0	728.8	684.1	654.4	622.6	607.6	611.9	611.9
57.5°	19808.2	15304.0	1890.9	771.2	688.3	637.4	620.4	599.1	588.5	594.9	592.8
60°	24046.9	19349.2	2804.5	722.4	648.0	594.9	594.9	577.9	569.4	575.8	573.7
62.5°	28929.4	23995.9	3943.4	686.3	605.5	560.9	569.4	560.9	552.4	556.7	554.5
65°	33259.4	27023.5	3692.6	658.7	563.0	529.1	543.9	539.7	533.3	537.6	535.4
67.5°	33384.7	25901.7	2073.6	628.9	522.6	497.2	518.4	516.3	512.1	516.3	514.1
70°	29794.1	21871.2	1168.5	573.7	480.2	458.9	488.7	486.5	482.3	490.8	488.7
72.5°	23870.6	15871.2	854.1	505.6	437.7	418.6	452.6	450.4	450.4	463.2	456.8
75°	13735.9	8167.1	682.0	433.4	393.0	378.2	408.0	410.1	414.3	431.3	418.6
77.5°	3915.8	2545.3	556.7	367.5	337.8	331.4	361.2	365.4	367.5	386.7	369.7
80°	1455.4	1172.8	458.9	308.1	276.2	278.3	306.0	312.3	314.5	333.6	312.3
82.5°	928.4	773.4	371.8	237.9	216.8	214.6	248.6	257.1	257.1	259.2	246.4
85°	541.8	463.2	280.5	172.1	152.9	146.6	184.8	199.7	193.3	189.1	180.6
87.5°	363.4	318.6	172.1	95.6	82.9	78.6	108.3	119.0	114.8	108.3	102.0
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)