

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: P191076

Luminaire Tested: **GLEON-AF-08-LED-E1-SL2-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191076
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-08-LED-E1-SL2-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 31497.7 lumens
Efficiency: N/A
Efficacy: 122.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G4

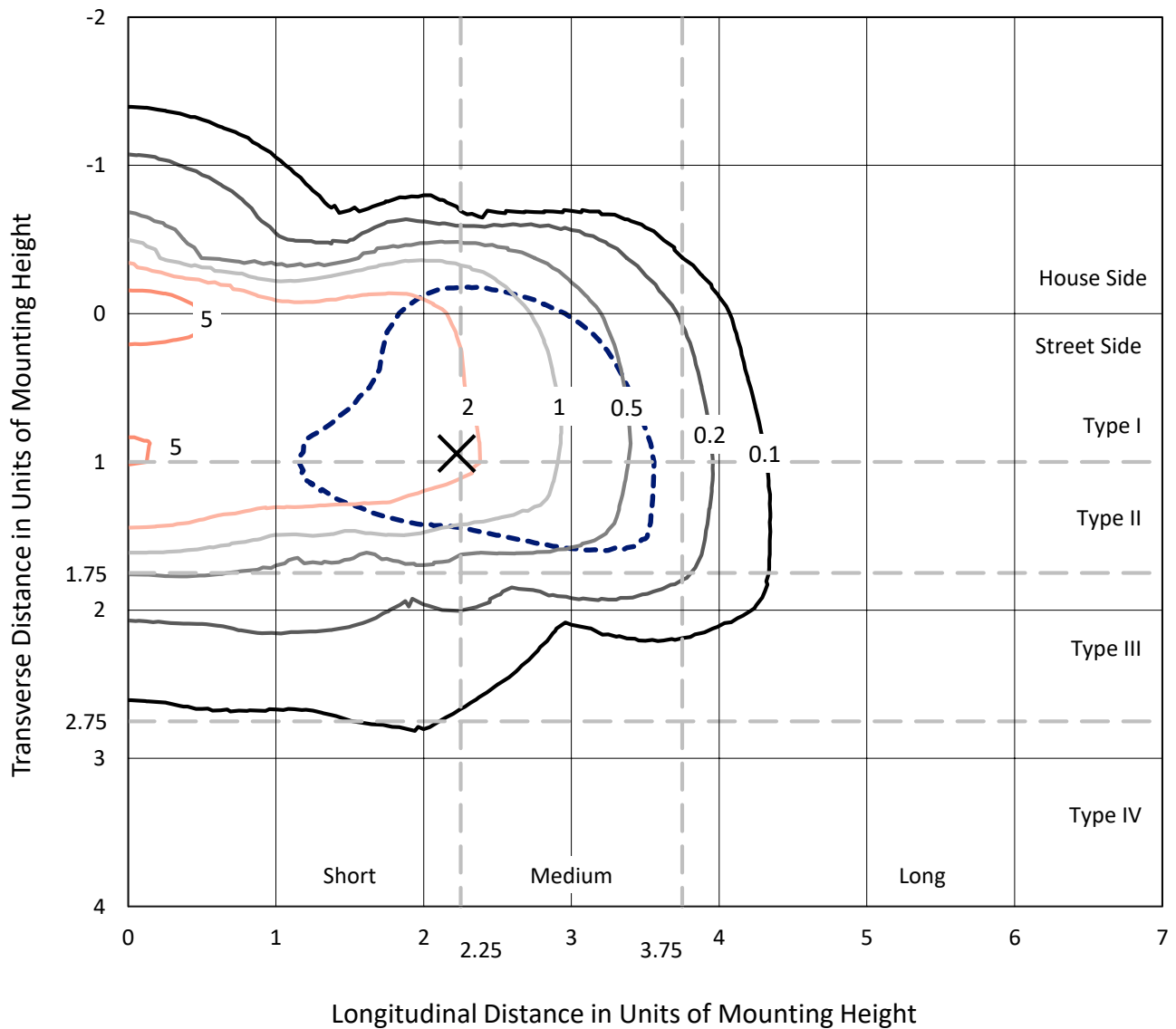
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

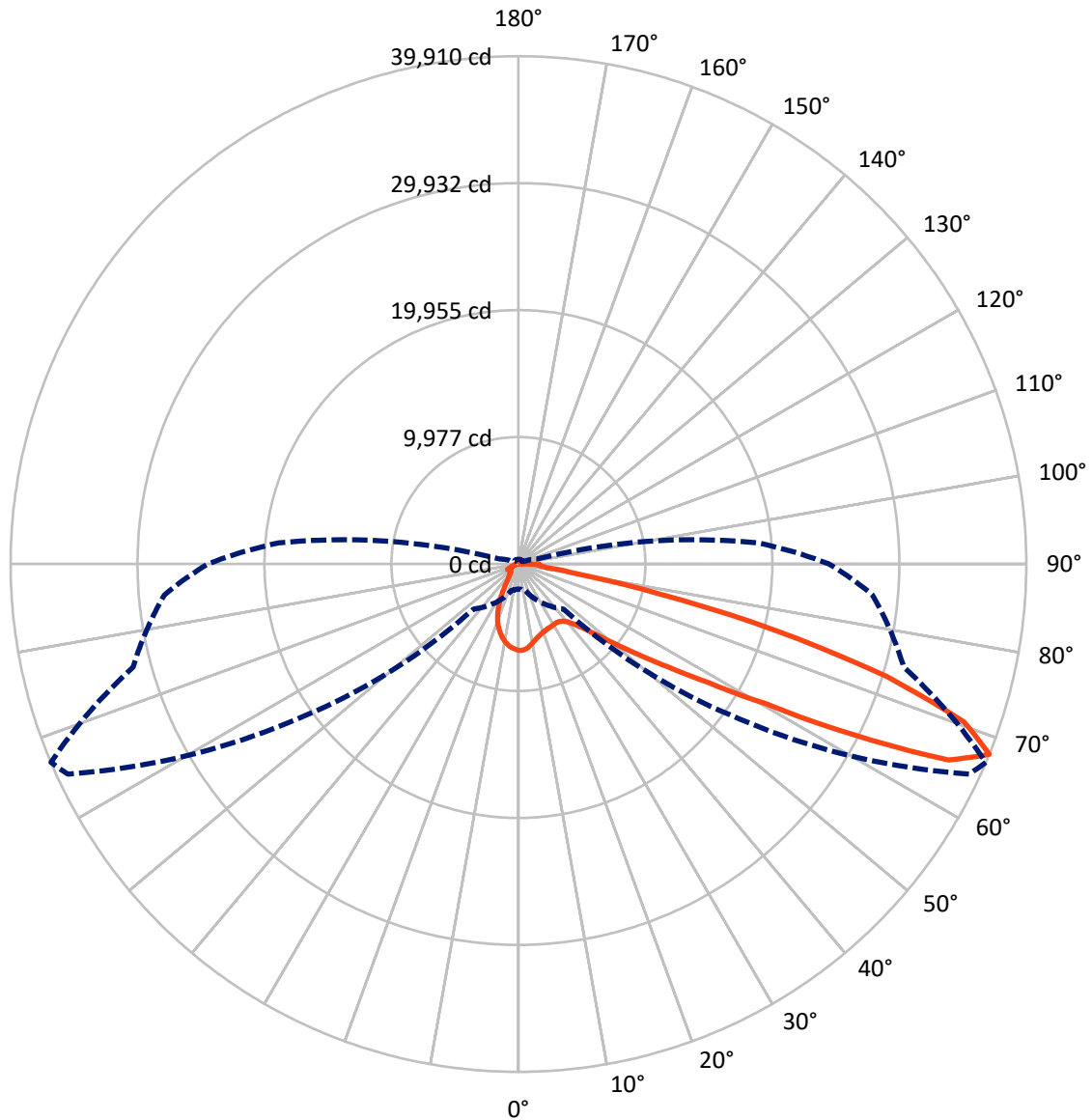
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.5 fc
 Type II - Short - Semi-Cutoff

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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
House Side	Lumens	5218.8	0.0	5218.8
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	26278.9	0.0	26278.9
	% Fixture	83.4	0.0	83.4
Total	Lumens	31497.7	0.0	31497.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	579.6	1.8
10°-20°	1341.2	4.3
20°-30°	1818.0	5.8
30°-40°	2584.4	8.2
40°-50°	4323.9	13.7
50°-60°	6840.3	21.7
60°-70°	8713.9	27.7
70°-80°	4564.3	14.5
80°-90°	732.0	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°	31497.7	100.0
0°-180°	31497.7	100.0



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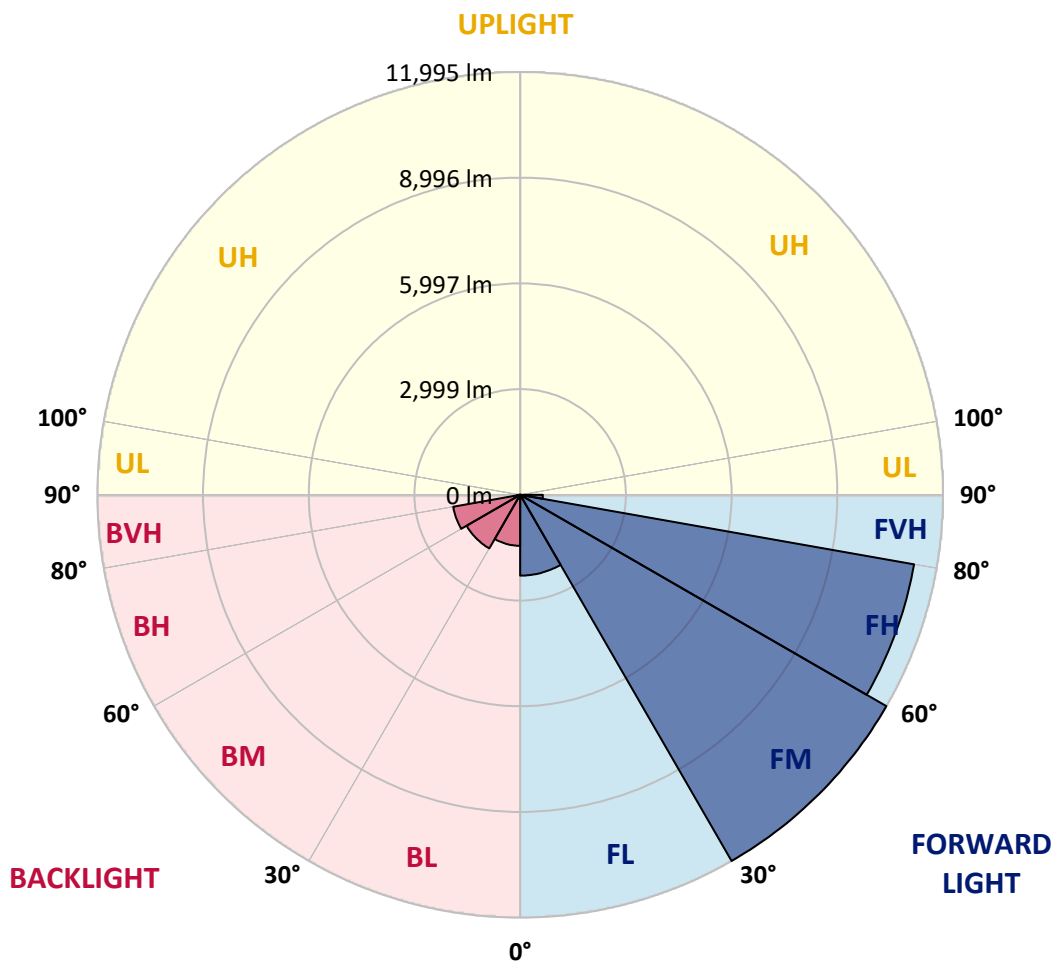
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2292.3	7.3			
FM (30°-60°)	11995.0	38.1			
FH (60°-80°)	11348.0	36.0			G4/12000
FVH (80°-90°)	643.7	2.0			G4/750
BL (0°-30°)	1446.5	4.6	B3/2500		
BM (30°-60°)	1753.7	5.6	B2/2500		
BH (60°-80°)	1930.3	6.1	B3/2500		G3/2500
BVH (80°-90°)	88.4	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-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	6793.9	6793.9	6793.9	6793.9	6793.9	6793.9	6793.9	6793.9	6793.9	6793.9	6793.9
2.5°	6514.4	6525.3	6559.5	6581.2	6679.1	6721.0	6750.5	6780.0	6784.6	6798.6	6784.6
5°	5830.9	5854.2	5918.0	5989.4	6178.9	6328.0	6484.9	6648.0	6677.5	6783.1	6812.6
7.5°	5301.2	5295.1	5347.9	5433.3	5627.5	5834.1	6109.0	6433.6	6497.3	6734.9	6849.9
10°	4914.6	4909.9	4965.8	5054.3	5239.1	5434.8	5745.5	6189.8	6279.8	6658.8	6885.6
12.5°	4628.8	4630.3	4686.2	4784.0	4972.0	5169.3	5484.6	5953.7	6068.6	6570.3	6922.9
15°	4439.2	4451.7	4496.7	4600.7	4784.0	4981.4	5290.4	5776.6	5905.5	6500.4	6964.9
17.5°	4375.6	4395.7	4411.3	4487.4	4644.3	4841.5	5144.4	5646.1	5782.8	6452.3	7002.1
20°	4434.6	4457.8	4428.4	4454.7	4554.2	4728.2	5029.4	5543.6	5683.4	6397.8	7006.8
22.5°	4687.8	4709.5	4622.5	4546.4	4540.2	4645.8	4934.7	5462.9	5607.3	6357.5	7008.3
25°	5133.6	5147.5	5001.5	4824.4	4652.1	4616.3	4867.9	5406.9	5560.7	6321.7	6978.8
27.5°	5680.2	5691.2	5523.4	5262.5	4916.1	4686.2	4844.6	5374.3	5534.3	6290.7	6929.1
30°	6345.1	6396.3	6171.2	5841.9	5337.0	4892.8	4891.2	5357.2	5504.8	6238.0	6831.3
32.5°	7025.4	7047.1	6891.8	6557.8	5904.0	5256.2	5021.7	5369.7	5497.0	6174.2	6707.0
35°	7715.1	7743.0	7642.1	7373.3	6679.1	5789.0	5276.5	5442.6	5545.1	6152.4	6620.0
37.5°	8608.2	8645.5	8505.6	8195.1	7621.9	6511.3	5700.5	5625.9	5692.7	6214.6	6593.6
40°	10020.1	10003.0	9594.5	9131.7	8653.2	7435.4	6306.3	5936.6	5975.4	6415.0	6674.3
42.5°	11663.5	11621.5	10917.9	10190.9	9787.1	8553.8	7107.8	6475.6	6467.8	6809.5	6958.6
45°	12974.4	12940.2	12306.5	11410.3	11087.2	9827.5	8143.7	7278.6	7221.1	7435.4	7483.6
47.5°	13684.2	13685.8	13320.8	12589.1	12581.5	11446.0	9474.9	8440.5	8341.0	8442.0	8390.8
50°	13435.7	13468.4	13429.5	13196.5	13945.2	13567.7	11213.0	10060.5	9860.1	9959.6	9762.2
52.5°	12233.5	12275.4	12505.4	12862.6	14518.3	16132.1	13766.6	12073.5	11840.6	11804.8	11585.8
55°	10102.5	10153.7	10622.7	11593.5	14041.5	17854.8	17795.8	14639.6	14268.3	13931.3	13838.1
57.5°	6963.3	7048.7	7803.6	9245.0	12499.1	18375.1	22593.8	18297.4	17542.6	16365.2	16387.0
60°	3925.1	4024.5	4914.6	6223.9	9386.4	17809.7	26243.9	23837.9	22244.3	19215.4	19376.9
62.5°	2496.1	2603.3	3279.0	4324.3	5632.2	14765.3	27739.8	31540.5	29516.6	22728.9	22887.3
65°	2020.8	2067.4	2385.8	3569.4	4089.8	8895.6	26604.3	37885.6	37130.8	27188.3	26449.0
67.5°	1972.7	1988.2	2152.8	2996.2	3922.0	5000.0	21220.7	39072.3	39909.5	31352.6	27932.3
70°	1949.3	2003.8	2426.2	2859.6	3755.8	4217.1	12752.3	35819.7	37141.6	32441.5	25958.1
72.5°	945.9	942.9	1220.9	2586.2	4231.1	4374.0	6551.7	28982.3	30308.8	28106.3	21331.0
75°	762.6	697.4	666.4	947.5	4068.0	4516.8	4175.2	19942.3	20902.3	18844.2	13112.7
77.5°	723.8	646.2	591.8	593.3	1719.5	4790.3	3536.8	11037.5	11317.1	8511.9	3592.7
80°	599.6	528.1	489.3	551.4	832.6	4562.0	3824.1	4995.3	4583.6	2090.7	1196.0
82.5°	416.2	379.0	368.2	462.9	666.4	3250.9	4447.0	2684.0	2250.7	1046.9	737.8
85°	265.6	226.8	251.6	337.1	518.8	1500.5	4580.6	2092.2	1663.5	664.8	416.2
87.5°	122.8	99.4	124.3	186.4	338.6	517.2	4358.5	2350.1	1713.2	351.1	262.5
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°	6793.9	6793.9	6793.9	6793.9	6793.9	6793.9	6793.9	6793.9	6793.9	6793.9	6793.9
2.5°	6797.1	6767.5	6744.3	6700.7	6652.7	6606.0	6564.1	6511.3	6495.7	6481.7	6503.5
5°	6818.8	6789.3	6703.9	6570.3	6422.7	6284.5	6146.3	6028.2	5955.2	5914.8	5938.1
7.5°	6851.4	6809.5	6632.4	6387.0	6121.4	5879.1	5629.0	5428.7	5281.1	5211.2	5231.4
10°	6881.0	6800.2	6511.3	6143.1	5754.8	5394.5	5000.0	4673.8	4431.4	4304.1	4335.2
12.5°	6893.4	6764.5	6342.0	5838.7	5305.9	4777.8	4197.0	3709.2	3361.2	3233.9	3207.5
15°	6905.8	6724.1	6155.6	5492.3	4763.9	4016.7	3202.9	2618.8	2329.9	2266.2	2252.2
17.5°	6908.9	6654.2	5944.4	5116.5	4128.5	3111.2	2190.1	1818.9	1820.4	1922.9	1935.3
20°	6876.3	6550.2	5688.0	4648.9	3367.5	2151.3	1503.5	1439.9	1674.5	1930.7	1961.8
22.5°	6801.7	6411.9	5397.6	4103.8	2496.1	1416.6	1163.4	1233.3	1536.2	1849.9	1885.7
25°	6707.0	6244.1	5054.3	3471.6	1652.7	1012.7	975.5	1060.9	1265.9	1475.6	1495.8
27.5°	6578.1	6045.3	4669.2	2747.7	1073.3	834.1	859.0	916.5	1000.3	1093.5	1102.8
30°	6411.9	5807.7	4257.5	2003.8	810.8	750.2	785.9	817.0	852.7	905.5	910.2
32.5°	6220.8	5579.3	3835.0	1384.0	719.1	706.8	734.7	750.2	778.2	810.8	813.9
35°	6060.9	5361.9	3397.0	978.6	680.4	674.1	692.7	699.0	725.4	761.1	764.2
37.5°	5969.2	5184.8	2945.0	789.1	654.0	644.6	655.5	655.5	692.7	745.5	753.3
40°	5975.4	5086.9	2493.0	713.0	632.2	619.7	621.3	621.3	669.4	726.9	731.6
42.5°	6144.7	5111.8	2092.2	683.4	615.1	601.1	593.3	598.0	638.4	675.7	678.7
45°	6542.4	5287.3	1716.3	664.8	598.0	593.3	576.2	574.7	590.2	607.3	607.3
47.5°	7194.7	5633.7	1461.6	652.3	584.0	582.5	562.3	542.1	540.5	546.8	546.8
50°	8255.6	6230.2	1290.8	638.4	574.7	562.3	539.0	507.9	497.1	501.7	501.7
52.5°	9846.1	7294.2	1225.5	619.7	554.5	534.3	507.9	476.9	467.5	469.1	469.1
55°	11932.2	8928.1	1216.2	598.0	532.8	500.1	478.4	455.1	444.3	447.3	447.3
57.5°	14481.1	11188.1	1382.4	563.9	503.3	466.0	453.6	438.0	430.3	435.0	433.3
60°	17579.8	14145.6	2050.3	528.1	473.7	435.0	435.0	422.5	416.2	420.9	419.4
62.5°	21149.2	17542.6	2882.9	501.7	442.6	410.1	416.2	410.1	403.9	406.9	405.4
65°	24314.8	19755.9	2699.6	481.5	411.6	386.8	397.6	394.6	389.8	393.0	391.4
67.5°	24406.4	18935.8	1516.0	459.8	382.1	363.5	379.0	377.5	374.3	377.5	375.9
70°	21781.4	15989.3	854.3	419.4	351.1	335.5	357.2	355.7	352.6	358.9	357.2
72.5°	17450.9	11602.9	624.4	369.7	320.0	306.0	330.8	329.3	329.3	338.6	334.0
75°	10041.8	5970.8	498.6	316.9	287.3	276.5	298.2	299.8	302.9	315.3	306.0
77.5°	2862.6	1860.8	406.9	268.7	246.9	242.3	264.0	267.2	268.7	282.7	270.3
80°	1064.0	857.4	335.5	225.3	201.9	203.5	223.7	228.3	229.9	243.9	228.3
82.5°	678.7	565.4	271.8	174.0	158.5	156.9	181.8	187.9	187.9	189.5	180.1
85°	396.1	338.6	205.0	125.8	111.8	107.2	135.1	146.0	141.4	138.2	132.1
87.5°	265.6	233.0	125.8	69.9	60.6	57.5	79.2	87.0	83.9	79.2	74.6
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)