

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: P191968

Luminaire Tested: **GLEON-AF-10-LED-E1-SL3-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191968
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-10-LED-E1-SL3-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47605 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G5

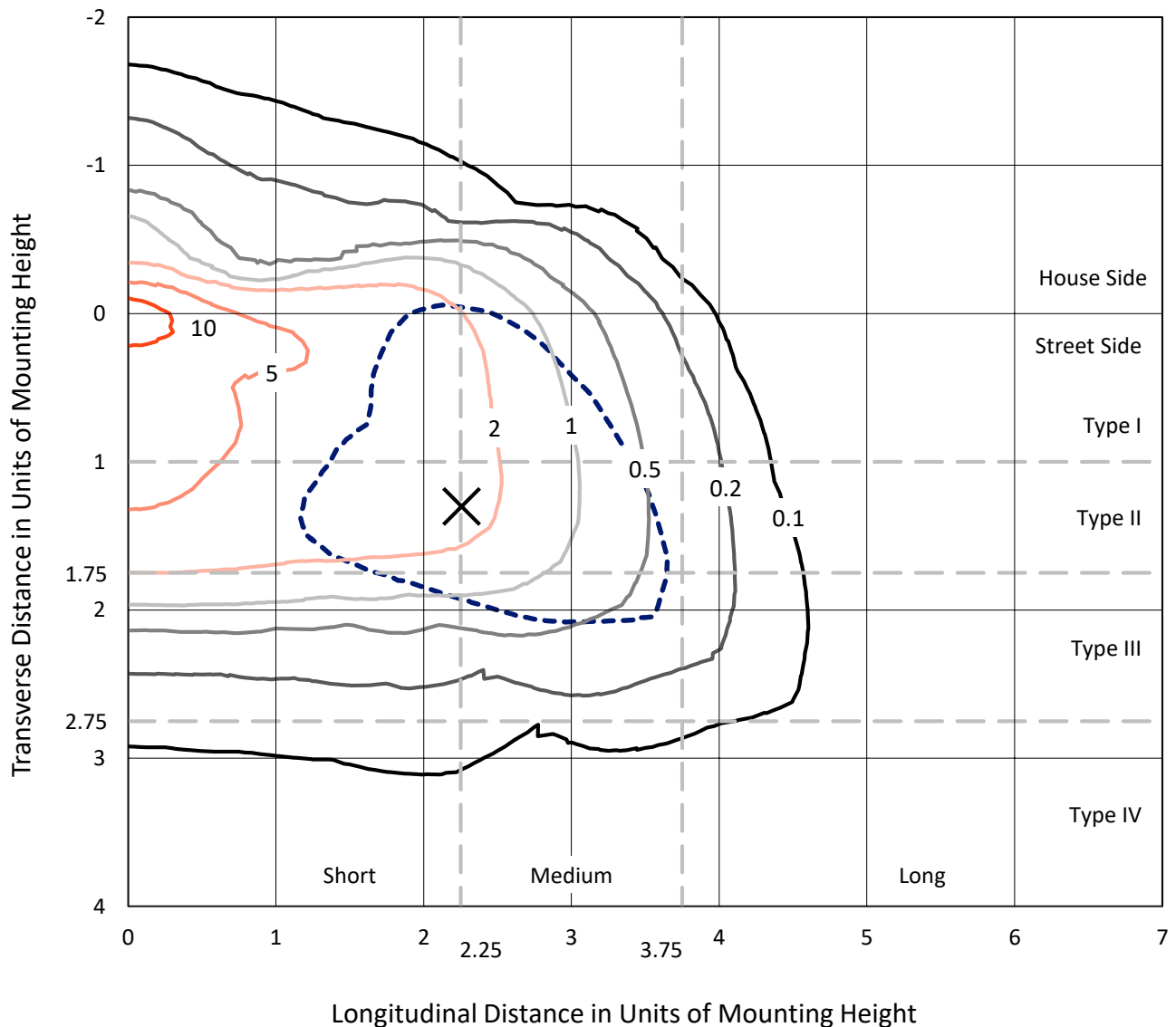
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

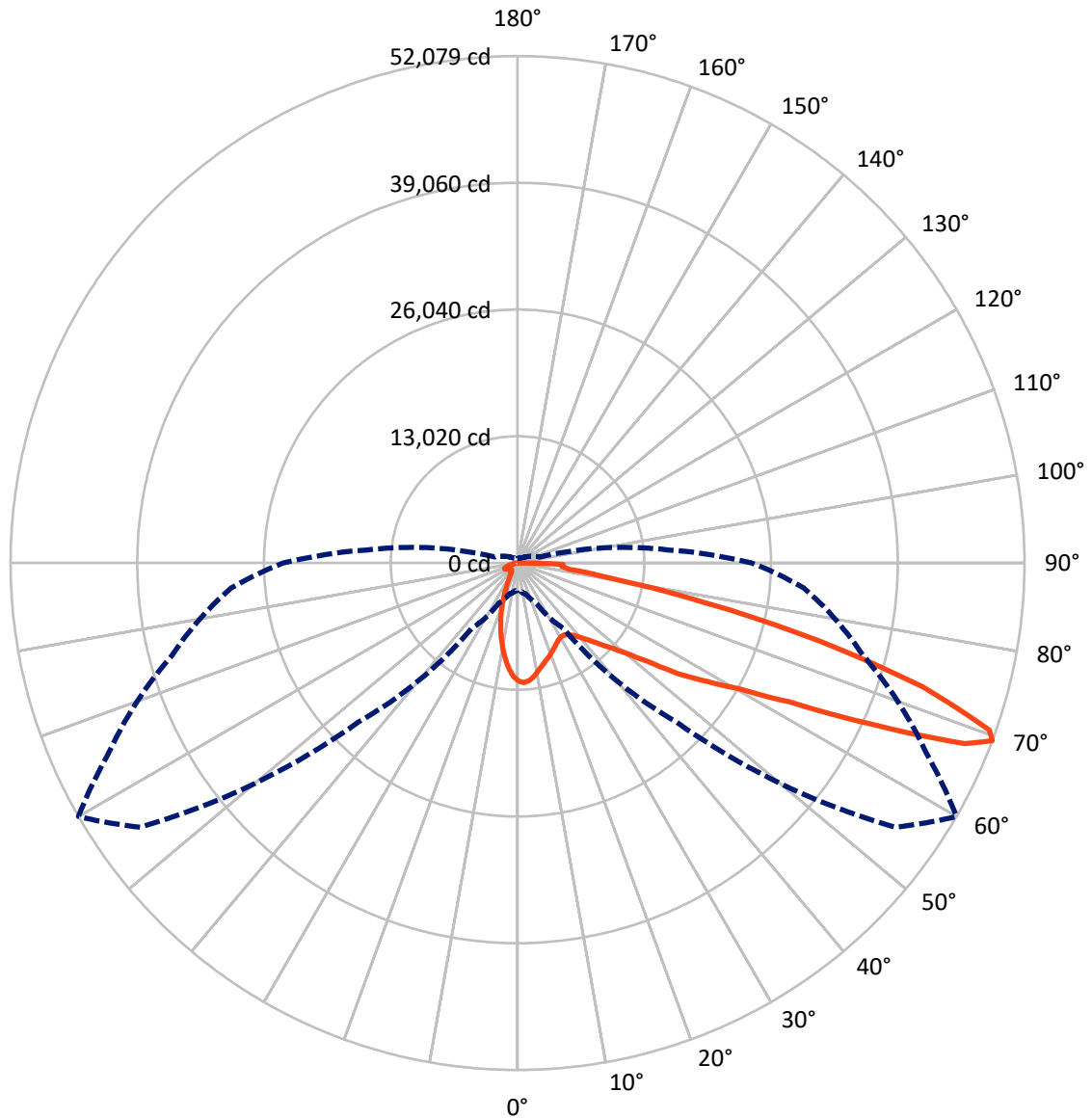
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.5 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6772.7	0.0	6772.7
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	40832.3	0.0	40832.3
	% Fixture	85.8	0.0	85.8
Total	Lumens	47605.0	0.0	47605.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1025.7	2.2
10°-20°	2185.3	4.6
20°-30°	2784.4	5.8
30°-40°	3827.9	8.0
40°-50°	6211.1	13.0
50°-60°	9961.0	20.9
60°-70°	13257.3	27.8
70°-80°	7157.9	15.0
80°-90°	1194.4	2.5
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°	47605.0	100.0
0°-180°	47605.0	100.0

Coefficient of Utilization



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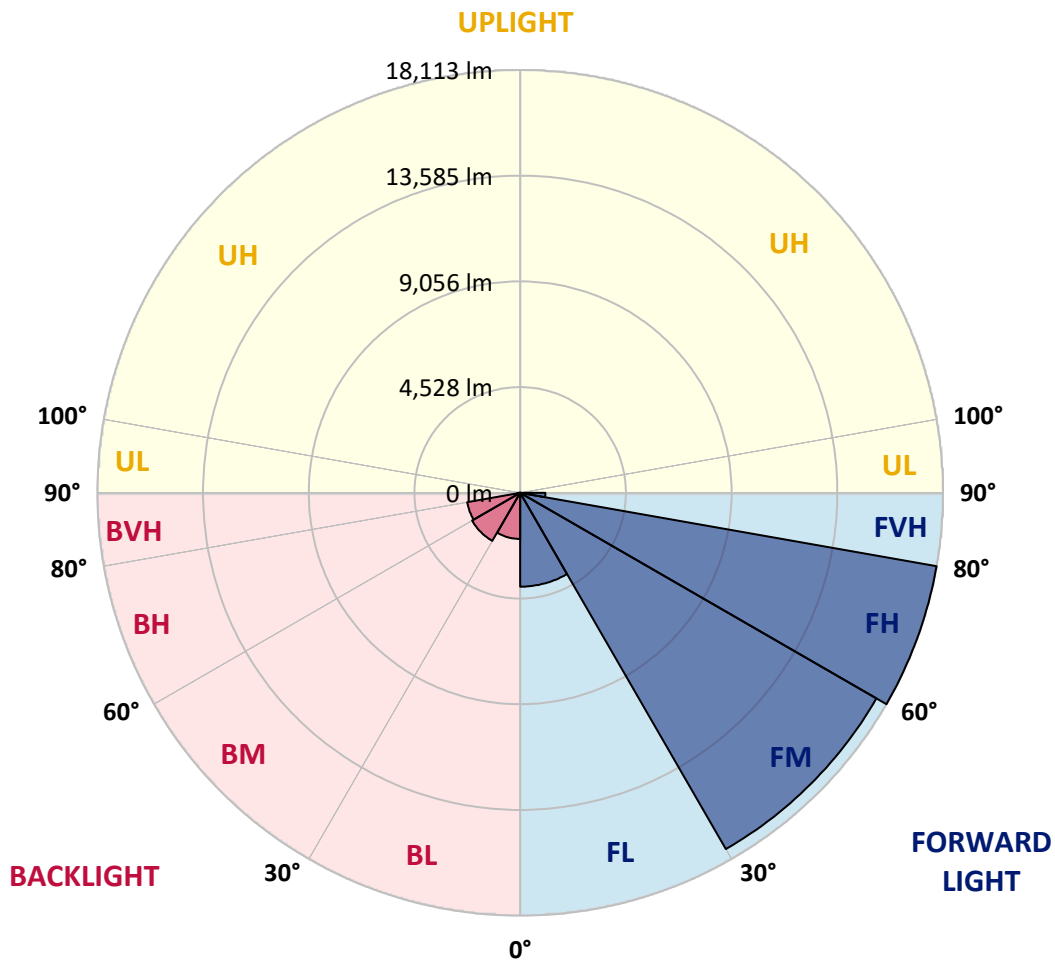
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4019.6	8.4			
FM (30°-60°)	17620.6	37.0			
FH (60°-80°)	18112.8	38.0			G5
FVH (80°-90°)	1079.3	2.3			G5
BL (0°-30°)	1975.8	4.2	B3/2500		
BM (30°-60°)	2379.4	5.0	B2/2500		
BH (60°-80°)	2302.5	4.8	B3/2500		G3/2500
BVH (80°-90°)	115.0	0.2			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	12130.5	12130.5	12130.5	12130.5	12130.5	12130.5	12130.5	12130.5	12130.5	12130.5	12130.5
2.5°	12378.8	12406.4	12394.9	12388.0	12408.7	12376.5	12309.8	12289.2	12257.0	12181.1	12052.3
5°	11914.3	11997.1	11992.5	12054.6	12158.1	12185.7	12155.8	12160.4	12100.6	12006.3	11792.4
7.5°	11111.7	11146.2	11164.6	11300.3	11488.9	11640.7	11769.4	11810.8	11783.2	11702.7	11426.8
10°	10283.9	10311.5	10355.2	10513.8	10753.0	10962.3	11206.0	11346.3	11406.1	11392.3	11084.2
12.5°	9573.3	9600.9	9658.4	9837.8	10122.9	10380.5	10734.6	10909.4	11052.0	11137.0	10805.9
15°	8936.3	8996.1	9051.3	9258.3	9577.9	9915.9	10316.1	10536.8	10757.6	10948.5	10559.8
17.5°	8439.6	8499.4	8531.6	8720.1	9060.5	9474.4	9943.5	10203.4	10479.4	10792.1	10316.1
20°	8152.1	8179.7	8165.9	8271.7	8577.6	9016.8	9573.3	9874.6	10208.0	10644.9	10072.3
22.5°	8071.7	8074.0	8023.4	8011.9	8209.6	8579.9	9177.8	9543.4	9952.7	10548.3	9863.1
25°	8267.1	8260.2	8122.2	8009.6	8030.3	8246.4	8796.0	9221.5	9738.9	10527.6	9702.1
27.5°	8701.7	8722.4	8517.8	8306.2	8096.9	8090.1	8506.3	8954.7	9564.1	10621.9	9633.1
30°	9311.1	9345.6	9127.2	8858.1	8464.9	8140.6	8393.6	8796.0	9456.0	10817.4	9621.6
32.5°	9978.0	10014.8	9849.3	9566.4	9051.3	8453.4	8471.8	8809.8	9451.4	11091.1	9699.8
35°	10688.6	10730.0	10644.9	10405.8	9833.2	9030.6	8770.7	9032.9	9600.9	11509.6	9909.0
37.5°	11482.0	11546.4	11569.4	11341.7	10730.0	9791.8	9260.6	9456.0	9938.9	12091.4	10293.1
40°	12624.9	12714.6	12707.7	12381.1	11757.9	10819.7	10017.1	10067.7	10465.6	12868.7	10907.1
42.5°	14814.1	14832.5	14259.9	13549.3	12889.4	11900.5	10909.4	10868.0	11192.2	13852.9	11810.8
45°	17599.0	17523.1	16249.1	14876.2	14071.4	13142.3	12070.7	11868.3	12114.4	15053.3	12942.2
47.5°	19910.1	19735.3	18125.6	16230.7	15322.3	14492.2	13434.4	13080.2	13215.9	16414.7	14404.8
50°	20712.6	20581.6	19247.8	17357.5	16506.6	16138.7	15113.1	14611.8	14648.6	18038.2	16118.0
52.5°	20540.2	20521.8	19631.8	18100.3	17615.1	17868.0	17490.9	16812.5	16453.8	19841.1	17966.9
55°	20133.1	20172.2	19850.3	18964.9	18882.2	19537.5	20597.7	20096.3	18981.0	21660.1	19877.9
57.5°	18718.9	18820.1	19528.3	20052.7	20921.9	21896.9	23099.6	22957.1	21701.5	23626.3	22149.9
60°	15080.9	15315.4	17214.9	19841.1	23021.5	26070.8	26608.9	26277.7	24507.0	26066.2	25150.9
62.5°	10566.7	10810.5	13068.7	17178.1	22676.5	30785.0	32882.2	31454.2	28535.9	29660.5	29035.0
65°	5657.1	5774.3	7499.0	11918.9	19144.3	31757.7	42050.8	39877.6	34915.1	34091.8	32357.9
67.5°	3120.6	3185.0	3845.0	6018.1	12261.6	27965.6	47891.8	49533.7	42887.8	37042.2	31753.1
69°	2821.6	2881.4	3313.7	4557.8	8205.0	23122.6	47321.5	52079.4	46383.3	36750.2	29517.9
70°	2759.5	2814.7	3203.4	4201.4	6641.3	19059.2	45410.5	51428.6	47215.7	35703.8	27567.8
72.5°	2483.6	2543.4	2920.5	3773.7	5675.5	9502.0	35970.6	43483.4	42867.2	30957.4	20910.4
75°	2315.7	2370.9	3010.2	3695.5	5434.0	6013.5	23713.6	32047.5	31511.6	21655.5	11275.0
77.5°	991.1	986.5	1395.9	3127.5	5514.5	5822.6	12742.2	20020.5	18265.9	9256.0	3237.9
80°	662.3	650.8	662.3	919.8	5056.9	5854.8	6675.8	10162.0	7676.1	2359.4	1595.9
82.5°	570.3	561.1	581.8	561.1	1777.6	6682.7	5675.5	5404.1	3649.5	1340.7	791.1
85°	384.0	367.9	501.3	503.6	839.4	5937.6	6392.9	4564.7	2952.7	795.7	390.9
87.5°	184.0	179.4	292.1	356.4	492.1	2412.3	7172.5	4677.4	2978.0	407.0	186.3
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°	12130.5	12130.5	12130.5	12130.5	12130.5	12130.5	12130.5	12130.5	12130.5	12130.5	12130.5
2.5°	12013.2	11918.9	11826.9	11716.5	11601.6	11472.8	11408.4	11344.0	11327.9	11309.5	11245.1
5°	11682.1	11548.7	11318.7	11065.8	10799.0	10539.1	10341.4	10217.2	10122.9	10074.6	9989.5
7.5°	11254.3	11058.9	10656.4	10219.5	9771.1	9361.7	9007.6	8784.5	8573.0	8474.1	8361.4
10°	10847.3	10555.2	9929.7	9285.9	8642.0	8023.4	7441.6	7029.9	6664.3	6459.6	6314.7
12.5°	10497.7	10097.6	9230.7	8359.1	7476.1	6595.3	5723.7	5038.5	4465.9	4164.6	4010.5
15°	10157.4	9674.5	8566.1	7460.0	6326.2	5128.1	3982.9	3205.7	2731.9	2543.4	2479.0
17.5°	9849.3	9230.7	7899.2	6553.9	5139.6	3690.9	2676.8	2249.0	2067.4	2005.3	1984.6
20°	9515.8	8782.2	7207.0	5606.5	3902.4	2580.2	2090.4	1901.8	1828.2	1809.8	1800.6
22.5°	9193.9	8340.7	6544.7	4592.3	2803.2	1991.5	1796.0	1717.8	1706.3	1722.4	1722.4
25°	8920.2	7945.2	5829.5	3532.2	2058.2	1676.4	1607.4	1589.0	1632.7	1692.5	1704.0
27.5°	8715.5	7620.9	5068.4	2607.8	1639.6	1458.0	1455.7	1485.6	1593.6	1708.6	1731.6
30°	8575.3	7312.8	4254.3	1881.1	1375.2	1283.2	1320.0	1384.4	1543.0	1706.3	1750.0
32.5°	8504.0	7085.1	3405.7	1455.7	1177.4	1126.8	1188.9	1267.1	1423.5	1575.2	1632.7
35°	8559.2	6917.2	2605.5	1214.2	1039.4	1000.3	1064.7	1140.6	1232.6	1297.0	1340.7
37.5°	8766.1	6850.6	1966.2	1087.7	945.1	908.3	958.9	1002.6	1039.4	1057.8	1078.5
40°	9212.3	6921.8	1575.2	1023.3	892.3	846.3	867.0	883.1	906.0	924.4	933.6
42.5°	9870.0	7135.7	1412.0	998.0	864.7	798.0	793.4	800.3	830.2	864.7	871.6
45°	10789.8	7512.8	1400.5	1014.1	850.9	758.9	738.2	747.4	793.4	846.3	855.5
47.5°	11964.9	8087.8	1492.5	1062.4	862.4	738.2	703.7	715.2	772.7	844.0	855.5
50°	13388.4	8890.3	1646.5	1133.7	912.9	742.8	692.2	699.1	758.9	837.1	848.6
52.5°	15069.4	10028.6	1814.4	1202.7	965.8	772.7	701.4	685.3	740.5	809.5	823.3
55°	16939.0	11488.9	1986.9	1264.8	993.4	809.5	719.8	666.9	706.0	763.5	775.0
57.5°	19234.0	13530.9	2285.8	1324.6	1011.8	834.8	738.2	648.5	662.3	703.7	712.9
60°	22340.8	16419.3	2812.4	1423.5	1053.2	844.0	735.9	632.4	618.6	641.6	646.2
62.5°	26063.9	19555.9	3251.7	1547.6	1122.2	850.9	722.1	620.9	581.8	581.8	586.4
65°	28273.8	20395.3	3007.9	1651.1	1179.7	844.0	706.0	609.4	554.2	528.9	531.2
67.5°	26399.6	17937.0	2577.9	1671.8	1177.4	811.8	680.7	588.7	526.6	487.5	485.2
69°	24051.7	15476.4	2384.7	1616.6	1122.2	770.4	648.5	565.7	505.9	464.5	462.2
70°	22159.1	13974.8	2258.2	1556.8	1062.4	740.5	623.2	545.0	489.8	450.7	446.1
72.5°	16111.1	9157.1	1929.4	1338.4	876.2	620.9	538.1	478.3	436.9	413.9	409.3
75°	8051.0	4367.0	1566.0	1085.4	671.5	496.7	441.5	400.1	379.4	374.8	372.5
77.5°	2644.6	2000.7	1119.9	809.5	499.0	388.6	356.4	326.5	321.9	335.7	331.1
80°	1453.4	1163.6	710.6	535.8	340.3	285.2	280.6	264.5	271.4	294.4	289.8
82.5°	740.5	604.8	439.2	321.9	230.0	204.7	223.1	213.9	223.1	243.8	241.5
85°	365.6	331.1	278.3	195.5	151.8	131.1	158.7	165.6	170.2	186.3	186.3
87.5°	211.6	195.5	147.2	92.0	75.9	69.0	92.0	89.7	105.8	115.0	112.7
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)