

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: P191174

Luminaire Tested: **GLEON-AF-06-LED-E1-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191174
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-06-LED-E1-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 1050mA 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: 36421.1 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-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

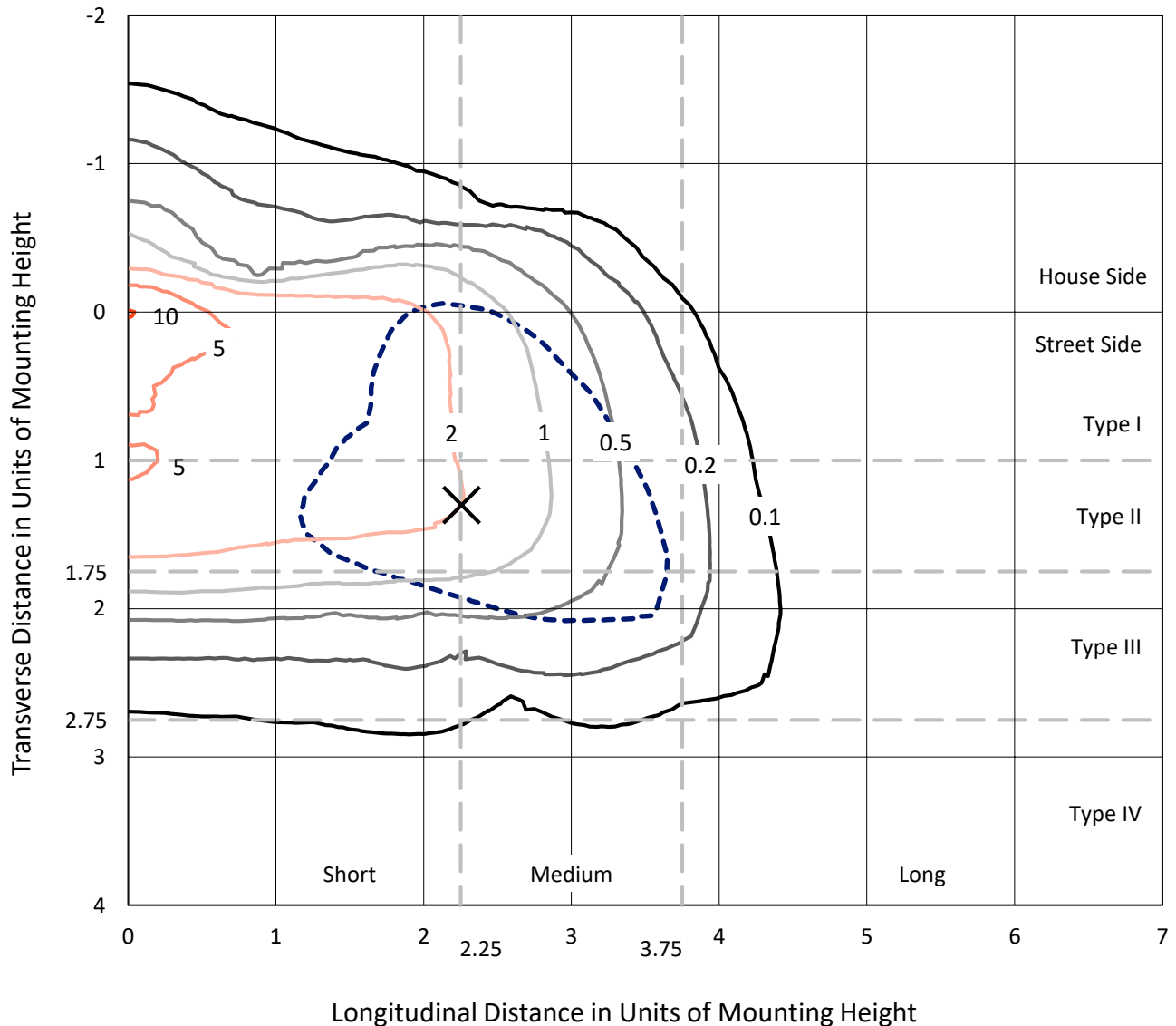


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

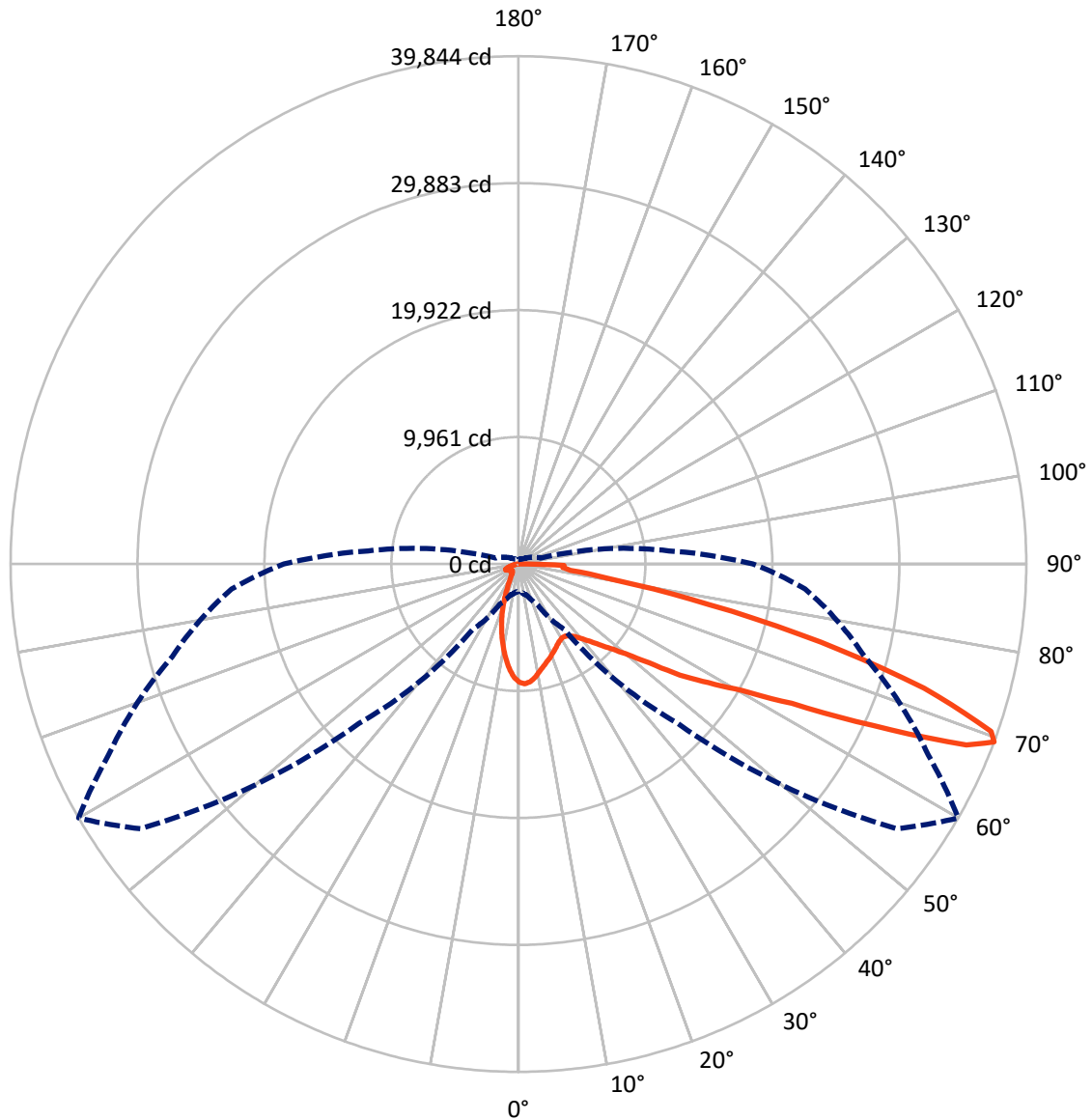


Based on 30 foot mounting height. Maximum calculated value = 10.3 fc
 Type III - Medium - Non-Cutoff

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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	5181.6	0.0	5181.6
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	31239.6	0.0	31239.6
	% Fixture	85.8	0.0	85.8
Total	Lumens	36421.1	0.0	36421.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	784.7	2.2
10°-20°	1671.9	4.6
20°-30°	2130.3	5.8
30°-40°	2928.6	8.0
40°-50°	4751.9	13.0
50°-60°	7620.9	20.9
60°-70°	10142.8	27.8
70°-80°	5476.3	15.0
80°-90°	913.8	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°	36421.1	100.0
0°-180°	36421.1	100.0

Coefficient of Utilization



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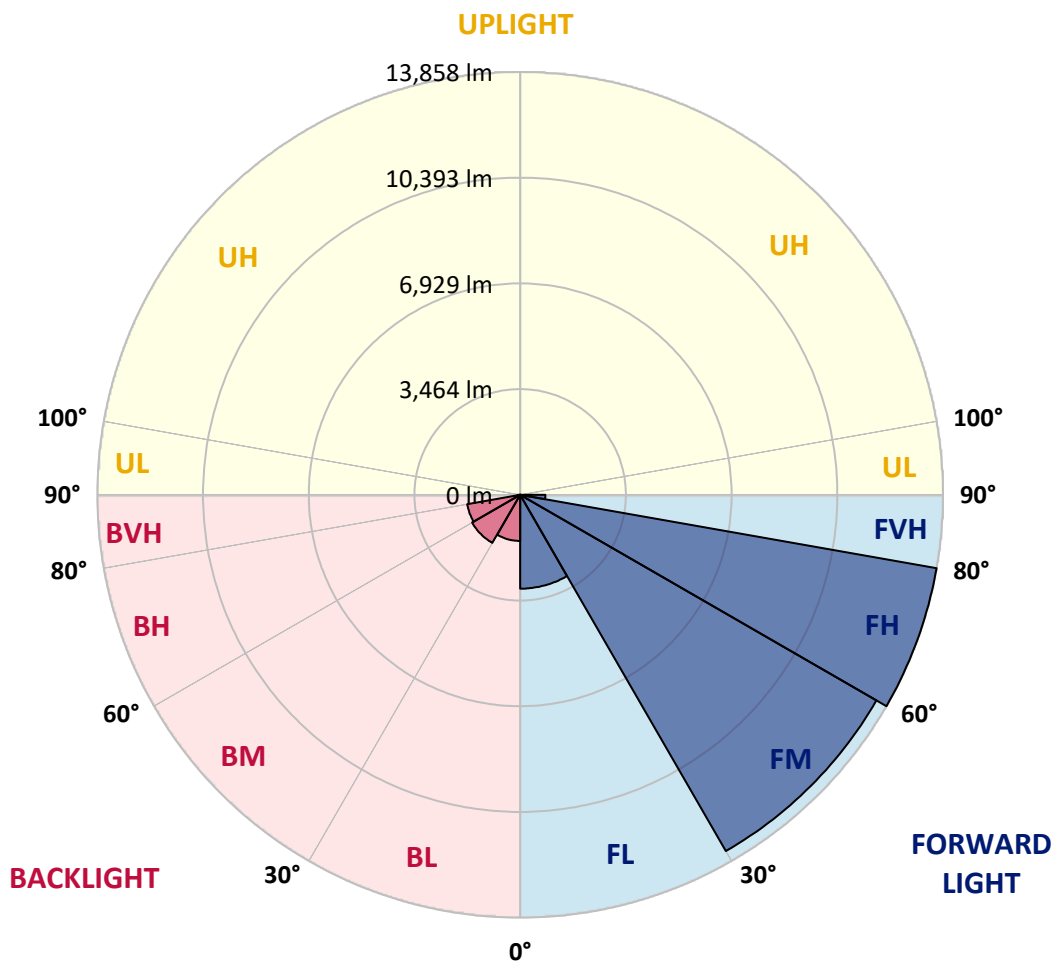
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3075.3	8.4			
FM (30°-60°)	13481.0	37.0			
FH (60°-80°)	13857.5	38.0			G5
FVH (80°-90°)	825.8	2.3			G5
BL (0°-30°)	1511.6	4.2	B3/2500		
BM (30°-60°)	1820.4	5.0	B2/2500		
BH (60°-80°)	1761.6	4.8	B3/2500		G3/2500
BVH (80°-90°)	88.0	0.2			G1/100
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°	9280.6	9280.6	9280.6	9280.6	9280.6	9280.6	9280.6	9280.6	9280.6	9280.6	9280.6
2.5°	9470.7	9491.8	9483.0	9477.7	9493.5	9468.9	9417.9	9402.0	9377.4	9319.4	9220.9
5°	9115.3	9178.6	9175.1	9222.6	9301.8	9322.9	9300.1	9303.5	9257.8	9185.7	9022.0
7.5°	8501.2	8527.6	8541.7	8645.6	8789.8	8905.9	9004.4	9036.1	9015.0	8953.4	8742.3
10°	7867.9	7889.0	7922.4	8043.9	8226.8	8386.9	8573.4	8680.8	8726.5	8716.0	8480.2
12.5°	7324.2	7345.4	7389.4	7526.6	7744.8	7941.8	8212.8	8346.5	8455.5	8520.6	8267.3
15°	6836.9	6882.6	6924.9	7083.2	7327.8	7586.4	7892.5	8061.5	8230.4	8376.3	8079.1
17.5°	6456.9	6502.6	6527.2	6671.5	6931.9	7248.6	7607.5	7806.3	8017.5	8256.7	7892.5
20°	6236.9	6258.1	6247.5	6328.5	6562.4	6898.5	7324.2	7554.7	7809.8	8144.1	7706.0
22.5°	6175.3	6177.1	6138.4	6129.6	6280.9	6564.2	7021.6	7301.4	7614.5	8070.3	7545.9
25°	6324.9	6319.7	6214.1	6127.9	6143.7	6309.0	6729.6	7055.1	7451.0	8054.4	7422.7
27.5°	6657.5	6673.3	6516.7	6354.9	6194.7	6189.5	6507.9	6851.0	7317.2	8126.5	7370.0
30°	7123.7	7150.0	6983.0	6777.0	6476.2	6228.1	6421.7	6729.6	7234.5	8276.1	7361.2
32.5°	7633.9	7662.0	7535.4	7319.0	6924.9	6467.4	6481.5	6740.1	7231.0	8485.4	7421.0
35°	8177.6	8209.2	8144.1	7961.1	7523.1	6909.0	6710.3	6910.7	7345.4	8805.7	7581.1
37.5°	8784.5	8833.8	8851.4	8677.2	8209.2	7491.4	7085.0	7234.5	7604.0	9250.7	7874.9
40°	9658.9	9727.5	9722.2	9472.4	8995.6	8277.8	7663.8	7702.5	8006.8	9845.4	8344.7
42.5°	11333.9	11347.9	10909.9	10366.2	9861.2	9104.8	8346.5	8314.7	8562.8	10598.4	9036.1
45°	13464.4	13406.4	12431.7	11381.4	10765.5	10054.8	9234.9	9080.1	9268.3	11516.8	9901.8
47.5°	15232.6	15098.9	13867.3	12417.6	11722.7	11087.6	10278.2	10007.3	10111.1	12558.4	11020.7
50°	15846.6	15746.3	14725.9	13279.7	12628.7	12347.2	11562.5	11179.0	11207.1	13800.4	12331.4
52.5°	15714.7	15700.6	15019.7	13848.0	13476.8	13670.3	13381.7	12862.7	12588.2	15179.8	13745.9
55°	15403.3	15433.2	15186.8	14509.5	14446.1	14947.6	15758.7	15375.2	14521.8	16571.5	15208.0
57.5°	14321.2	14398.6	14940.5	15341.7	16006.7	16752.7	17672.8	17563.8	16603.1	18075.7	16946.2
60°	11538.0	11717.4	13170.6	15179.8	17613.1	19945.9	20357.6	20104.3	18749.6	19942.4	19242.2
62.5°	8084.3	8270.8	9998.5	13142.5	17349.1	23552.6	25157.2	24064.6	21832.0	22692.3	22213.8
65°	4328.0	4417.8	5737.3	9118.8	14646.7	24296.8	32171.8	30509.2	26712.4	26082.6	24756.0
67.5°	2387.5	2436.8	2941.7	4604.3	9381.0	21395.6	36640.6	37896.7	32812.2	28339.8	24293.3
69°	2158.7	2204.5	2535.3	3487.0	6277.4	17690.4	36204.3	39844.3	35486.5	28116.4	22583.3
70°	2111.3	2153.5	2450.8	3214.3	5081.1	14581.7	34742.2	39346.5	36123.4	27316.0	21091.3
72.5°	1900.1	1945.9	2234.4	2887.1	4342.1	7269.7	27520.0	33267.9	32796.3	23684.6	15997.9
75°	1771.6	1813.9	2303.0	2827.3	4157.4	4600.7	18142.5	24518.5	24108.6	16567.9	8626.1
77.5°	758.3	754.7	1068.0	2392.8	4219.0	4454.7	9748.6	15317.1	13974.6	7081.5	2477.2
80°	506.7	497.9	506.7	703.8	3868.8	4479.3	5107.5	7774.6	5872.8	1805.1	1221.0
82.5°	436.3	429.3	445.1	429.3	1360.0	5112.7	4342.1	4134.6	2792.1	1025.7	605.2
85°	293.8	281.5	383.5	385.3	642.2	4542.7	4891.0	3492.4	2259.0	608.8	299.1
87.5°	140.8	137.3	223.4	272.7	376.5	1845.6	5487.4	3578.6	2278.4	311.4	142.5
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°	9280.6	9280.6	9280.6	9280.6	9280.6	9280.6	9280.6	9280.6	9280.6	9280.6	9280.6
2.5°	9190.9	9118.8	9048.4	8964.0	8876.0	8777.5	8728.2	8678.9	8666.6	8652.5	8603.3
5°	8937.6	8835.5	8659.6	8466.0	8262.0	8063.2	7911.9	7816.9	7744.8	7707.8	7642.7
7.5°	8610.4	8460.8	8152.9	7818.6	7475.5	7162.4	6891.4	6720.8	6559.0	6483.3	6397.0
10°	8298.9	8075.5	7596.9	7104.3	6611.7	6138.4	5693.3	5378.4	5098.7	4942.1	4831.2
12.5°	8031.5	7725.4	7062.1	6395.3	5719.7	5045.9	4379.0	3854.8	3416.7	3186.2	3068.3
15°	7771.2	7401.7	6553.6	5707.3	4840.0	3923.4	3047.3	2452.5	2090.1	1945.9	1896.6
17.5°	7535.4	7062.1	6043.4	5014.2	3932.2	2823.8	2047.9	1720.7	1581.7	1534.1	1518.4
20°	7280.2	6719.0	5513.8	4289.3	2985.7	1974.0	1599.3	1455.0	1398.7	1384.7	1377.6
22.5°	7033.9	6381.3	5007.1	3513.4	2144.7	1523.6	1374.0	1314.3	1305.5	1317.8	1317.8
25°	6824.6	6078.6	4460.0	2702.4	1574.6	1282.6	1229.8	1215.7	1249.1	1294.9	1303.6
27.5°	6668.0	5830.5	3877.6	1995.2	1254.4	1115.4	1113.7	1136.6	1219.3	1307.2	1324.8
30°	6560.7	5594.8	3254.8	1439.2	1052.1	981.7	1009.9	1059.2	1180.5	1305.5	1338.8
32.5°	6506.2	5420.6	2605.7	1113.7	900.8	862.0	909.6	969.5	1089.0	1205.1	1249.1
35°	6548.3	5292.1	1993.3	928.9	795.2	765.4	814.6	872.7	943.1	992.3	1025.7
37.5°	6706.7	5241.2	1504.2	832.2	723.1	695.0	733.7	767.1	795.2	809.4	825.1
40°	7048.0	5295.7	1205.1	783.0	682.6	647.4	663.3	675.6	693.2	707.3	714.3
42.5°	7551.2	5459.3	1080.2	763.5	661.5	610.5	607.0	612.2	635.2	661.5	666.8
45°	8254.9	5747.9	1071.4	775.9	651.0	580.6	564.8	571.8	607.0	647.4	654.5
47.5°	9154.0	6187.7	1141.8	812.8	659.8	564.8	538.4	547.2	591.2	645.7	654.5
50°	10243.0	6801.7	1259.7	867.4	698.5	568.2	529.6	534.8	580.6	640.4	649.2
52.5°	11529.2	7672.6	1388.1	920.1	739.0	591.2	536.6	524.3	566.5	619.3	629.8
55°	12959.5	8789.8	1520.1	967.6	760.1	619.3	550.7	510.2	540.1	584.1	592.9
57.5°	14715.4	10352.2	1748.8	1013.4	774.2	638.6	564.8	496.1	506.7	538.4	545.4
60°	17092.3	12561.8	2151.7	1089.0	805.8	645.7	563.0	483.9	473.3	490.9	494.4
62.5°	19940.7	14961.7	2487.7	1184.1	858.6	651.0	552.4	475.1	445.1	445.1	448.7
65°	21631.4	15603.8	2301.2	1263.2	902.5	645.7	540.1	466.3	424.0	404.7	406.4
67.5°	20197.6	13723.1	1972.2	1279.1	900.8	621.0	520.8	450.4	402.9	373.0	371.2
69°	18401.2	11840.6	1824.4	1236.8	858.6	589.4	496.1	432.8	387.1	355.4	353.6
70°	16953.3	10691.7	1727.7	1191.1	812.8	566.5	476.8	417.0	374.7	344.8	341.4
72.5°	12326.1	7005.8	1476.1	1024.0	670.3	475.1	411.7	365.9	334.3	316.7	313.1
75°	6159.5	3341.1	1198.1	830.4	513.7	380.0	337.8	306.2	290.3	286.7	285.0
77.5°	2023.3	1530.6	856.8	619.3	381.8	297.4	272.7	249.8	246.3	256.9	253.4
80°	1111.9	890.3	543.6	409.9	260.3	218.2	214.6	202.3	207.6	225.2	221.7
82.5°	566.5	462.7	336.0	246.3	175.9	156.6	170.6	163.7	170.6	186.5	184.7
85°	279.8	253.4	212.9	149.6	116.1	100.2	121.4	126.6	130.2	142.5	142.5
87.5°	161.8	149.6	112.6	70.4	58.1	52.8	70.4	68.6	80.9	88.0	86.2
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)