

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: P191164

Luminaire Tested: **GLEON-AF-06-LED-E1-SL3-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191164  
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-SL3-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 4000K, 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: 29426.2 lumens  
Efficiency: N/A  
Efficacy: 118.2 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 - G4

Input Watts (W): 249  
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

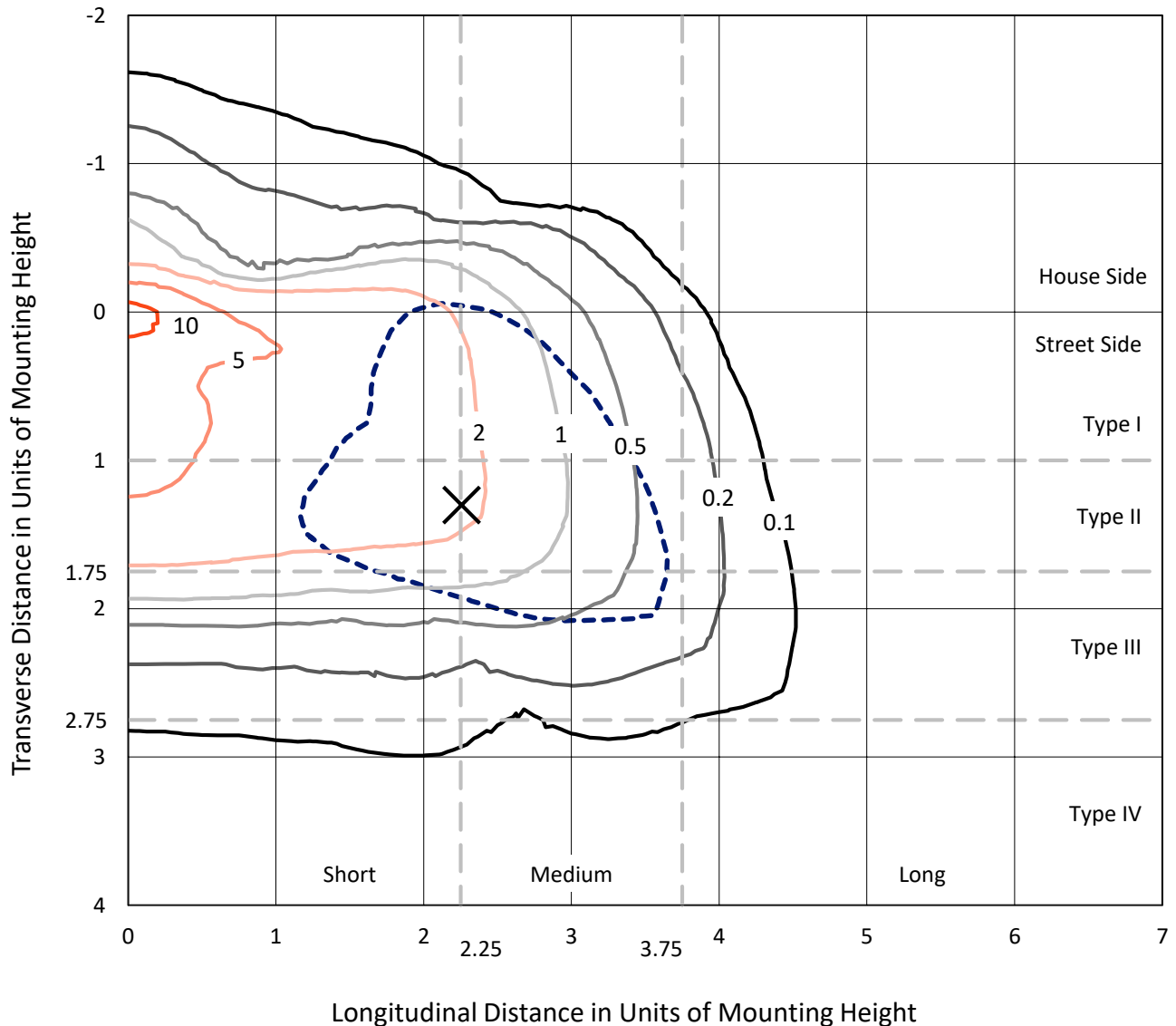


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### Iso-Footcandle Lines of Horizontal Illumination

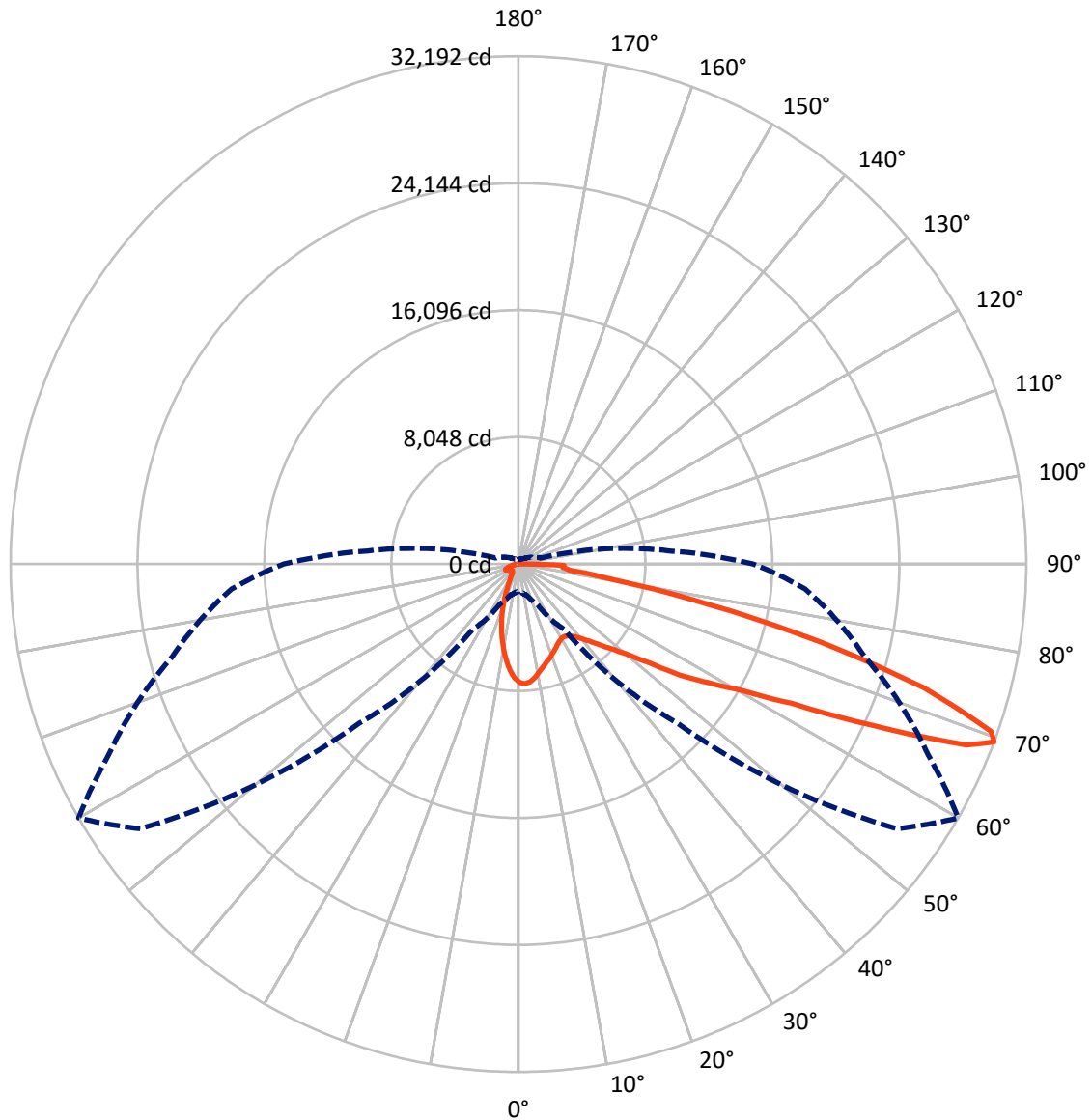
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 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
<b>House Side</b>	Lumens	4186.4	0.0	4186.4
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	25239.8	0.0	25239.8
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	29426.2	0.0	29426.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	634.0	2.2
10°-20°	1350.8	4.6
20°-30°	1721.1	5.8
30°-40°	2366.1	8.0
40°-50°	3839.3	13.0
50°-60°	6157.2	20.9
60°-70°	8194.8	27.8
70°-80°	4424.6	15.0
80°-90°	738.3	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°	29426.2	100.0
0°-180°	29426.2	100.0



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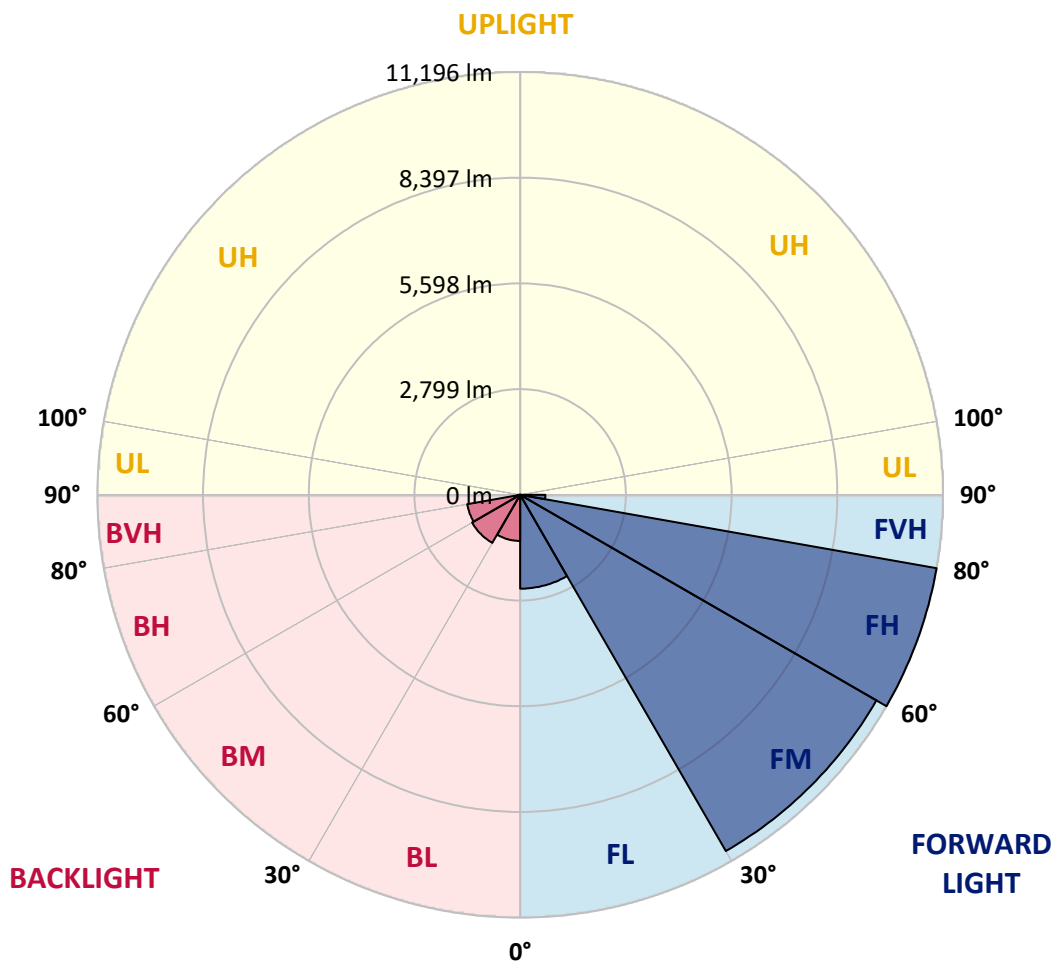
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2484.6	8.4			
FM (30°-60°)	10891.9	37.0			
FH (60°-80°)	11196.1	38.0			G4/12000
FVH (80°-90°)	667.2	2.3			G4/750
BL (0°-30°)	1221.3	4.2	B3/2500		
BM (30°-60°)	1470.8	5.0	B2/2500		
BH (60°-80°)	1423.3	4.8	B3/2500		G3/2500
BVH (80°-90°)	71.1	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-G4**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	7498.2	7498.2	7498.2	7498.2	7498.2	7498.2	7498.2	7498.2	7498.2	7498.2	7498.2
2.5°	7651.8	7668.9	7661.7	7657.4	7670.3	7650.3	7609.1	7596.3	7576.4	7529.5	7449.9
5°	7364.6	7415.8	7412.9	7451.4	7515.3	7532.4	7513.9	7516.7	7479.7	7421.5	7289.2
7.5°	6868.5	6889.9	6901.2	6985.1	7101.6	7195.4	7275.1	7300.7	7283.6	7233.9	7063.3
10°	6356.8	6373.9	6400.9	6498.9	6646.8	6776.1	6926.8	7013.6	7050.5	7042.0	6851.5
12.5°	5917.6	5934.6	5970.1	6081.0	6257.3	6416.5	6635.4	6743.4	6831.6	6884.2	6679.5
15°	5523.8	5560.8	5594.9	5722.8	5920.4	6129.4	6376.7	6513.1	6649.6	6767.6	6527.3
17.5°	5216.7	5253.8	5273.6	5390.2	5600.6	5856.5	6146.4	6307.0	6477.6	6671.0	6376.7
20°	5039.1	5056.1	5047.6	5113.0	5302.1	5573.5	5917.6	6103.7	6309.9	6579.9	6226.0
22.5°	4989.3	4990.8	4959.5	4952.4	5074.7	5303.5	5673.1	5899.1	6152.1	6520.3	6096.7
25°	5110.2	5106.0	5020.6	4951.0	4963.8	5097.4	5437.1	5700.1	6020.0	6507.5	5997.2
27.5°	5378.9	5391.7	5265.1	5134.3	5005.0	5000.7	5258.0	5535.2	5911.8	6565.8	5954.5
30°	5755.5	5776.8	5641.8	5475.4	5232.4	5032.0	5188.4	5437.1	5845.0	6686.6	5947.4
32.5°	6167.8	6190.5	6088.2	5913.3	5594.9	5225.3	5236.7	5445.7	5842.3	6855.7	5995.7
35°	6606.9	6632.6	6579.9	6432.1	6078.2	5582.1	5421.4	5583.6	5934.6	7114.4	6125.1
37.5°	7097.4	7137.2	7151.4	7010.7	6632.6	6052.6	5724.2	5845.0	6143.5	7474.1	6362.4
40°	7803.9	7859.3	7855.0	7653.2	7268.0	6688.1	6191.9	6223.2	6469.1	7954.6	6742.1
42.5°	9157.0	9168.5	8814.6	8375.3	7967.4	7356.1	6743.4	6717.8	6918.3	8562.9	7300.7
45°	10878.5	10831.6	10044.0	9195.5	8697.9	8123.7	7461.3	7336.2	7488.3	9305.0	8000.0
47.5°	12307.0	12199.0	11204.0	10032.7	9471.2	8958.1	8304.2	8085.3	8169.2	10146.4	8904.1
50°	12803.2	12722.1	11897.7	10729.2	10203.3	9975.8	9341.9	9032.0	9054.8	11150.0	9963.0
52.5°	12696.6	12685.2	12135.1	11188.4	10888.5	11044.8	10811.7	10392.4	10170.6	12264.5	11106.0
55°	12444.9	12469.2	12270.1	11722.8	11671.7	12076.8	12732.1	12422.2	11732.8	13388.8	12287.2
57.5°	11570.7	11633.3	12071.1	12395.2	12932.6	13535.2	14278.7	14190.5	13414.4	14604.2	13691.6
60°	9321.9	9467.0	10641.1	12264.5	14230.3	16115.2	16447.8	16243.1	15148.6	16112.3	15546.6
62.5°	6531.6	6682.3	8078.2	10618.3	14017.1	19029.2	20325.5	19442.8	17638.9	18334.1	17947.5
65°	3496.9	3569.3	4635.4	7367.5	11833.7	19630.4	25993.0	24649.6	21582.1	21073.3	20001.5
67.5°	1929.0	1968.8	2376.7	3720.0	7579.2	17286.4	29603.5	30618.5	26510.4	22897.0	19627.7
69°	1744.1	1781.1	2048.4	2817.3	5071.8	14292.9	29251.0	32192.0	28671.0	22716.5	18246.0
70°	1705.8	1739.8	1980.1	2597.1	4105.2	11781.1	28069.8	31789.7	29185.6	22069.8	17040.5
72.5°	1535.1	1572.2	1805.3	2332.6	3508.2	5873.5	22234.6	26878.5	26497.6	19135.8	12925.4
75°	1431.4	1465.6	1860.7	2284.2	3359.0	3717.1	14658.2	19809.5	19478.4	13385.9	6969.5
77.5°	612.6	609.8	862.9	1933.2	3408.7	3599.2	7876.3	12375.2	11290.7	5721.4	2001.4
80°	409.4	402.3	409.4	568.6	3125.8	3619.1	4126.5	6281.4	4744.9	1458.4	986.5
82.5°	352.5	346.9	359.7	346.9	1098.8	4130.8	3508.2	3340.4	2255.9	828.7	489.0
85°	237.4	227.4	309.9	311.3	518.8	3670.2	3951.7	2821.6	1825.1	491.8	241.6
87.5°	113.8	110.9	180.6	220.3	304.2	1491.2	4433.6	2891.3	1840.8	251.6	115.2
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°	7498.2	7498.2	7498.2	7498.2	7498.2	7498.2	7498.2	7498.2	7498.2	7498.2	7498.2
2.5°	7425.7	7367.5	7310.6	7242.4	7171.3	7091.7	7051.9	7012.1	7002.2	6990.7	6951.0
5°	7221.0	7138.7	6996.5	6840.1	6675.2	6514.6	6392.3	6315.6	6257.3	6227.4	6174.8
7.5°	6956.7	6835.9	6587.1	6317.0	6039.8	5786.8	5567.9	5430.0	5299.2	5238.1	5168.5
10°	6705.0	6524.6	6137.9	5739.9	5341.8	4959.5	4599.9	4345.4	4119.4	3992.9	3903.4
12.5°	6489.0	6241.6	5705.8	5167.0	4621.2	4076.8	3538.1	3114.5	2760.5	2574.3	2479.0
15°	6278.7	5980.1	5295.0	4611.3	3910.4	3169.9	2461.9	1981.6	1688.7	1572.2	1532.4
17.5°	6088.2	5705.8	4882.7	4051.2	3177.0	2281.5	1654.6	1390.2	1277.9	1239.5	1226.7
20°	5882.1	5428.6	4454.8	3465.6	2412.2	1594.9	1292.1	1175.6	1130.1	1118.7	1113.0
22.5°	5683.0	5155.7	4045.5	2838.7	1732.8	1231.0	1110.2	1061.8	1054.8	1064.7	1064.7
25°	5513.9	4911.2	3603.4	2183.4	1272.2	1036.2	993.6	982.2	1009.2	1046.2	1053.3
27.5°	5387.4	4710.8	3132.9	1612.0	1013.5	901.2	899.8	918.3	985.1	1056.2	1070.4
30°	5300.6	4520.3	2629.7	1162.8	850.1	793.2	815.9	855.7	953.8	1054.8	1081.8
32.5°	5256.6	4379.6	2105.2	899.8	727.8	696.5	734.9	783.3	879.8	973.7	1009.2
35°	5290.7	4275.7	1610.5	750.5	642.5	618.4	658.2	705.0	761.9	801.7	828.7
37.5°	5418.7	4234.5	1215.4	672.4	584.2	561.5	592.8	619.8	642.5	653.9	666.7
40°	5694.4	4278.6	973.7	632.6	551.6	523.1	535.9	545.8	560.1	571.4	577.1
42.5°	6101.0	4410.9	872.8	616.9	534.5	493.3	490.4	494.7	513.1	534.5	538.7
45°	6669.5	4643.9	865.7	626.9	525.9	469.1	456.3	462.0	490.4	523.1	528.8
47.5°	7395.9	4999.3	922.5	656.7	533.1	456.3	435.0	442.1	477.6	521.7	528.8
50°	8275.8	5495.4	1017.7	700.8	564.4	459.1	427.9	432.1	469.1	517.4	524.6
52.5°	9314.9	6199.0	1121.6	743.4	597.0	477.6	433.5	423.6	457.7	500.3	508.9
55°	10470.5	7101.6	1228.2	781.8	614.1	500.3	444.9	412.2	436.4	471.9	479.0
57.5°	11889.1	8364.0	1412.9	818.8	625.4	516.0	456.3	400.9	409.4	435.0	440.7
60°	13809.5	10149.3	1738.5	879.8	651.0	521.7	454.9	390.9	382.4	396.6	399.5
62.5°	16111.0	12088.2	2010.0	956.7	693.7	525.9	446.3	383.8	359.7	359.7	362.4
65°	17476.9	12606.9	1859.3	1020.6	729.3	521.7	436.4	376.7	342.6	326.9	328.4
67.5°	16318.4	11087.5	1593.5	1033.4	727.8	501.8	420.7	363.9	325.5	301.4	299.9
69°	14867.2	9566.4	1474.1	999.3	693.7	476.2	400.9	349.6	312.7	287.1	285.7
70°	13697.3	8638.3	1395.9	962.3	656.7	457.7	385.2	336.9	302.8	278.7	275.8
72.5°	9958.8	5660.3	1192.7	827.3	541.6	383.8	332.7	295.6	270.1	255.8	253.0
75°	4976.6	2699.4	968.0	671.0	415.1	307.0	272.9	247.3	234.6	231.7	230.3
77.5°	1634.7	1236.6	692.2	500.3	308.4	240.2	220.3	201.8	199.0	207.6	204.7
80°	898.4	719.2	439.3	331.2	210.4	176.3	173.4	163.5	167.8	182.0	179.1
82.5°	457.7	373.9	271.5	199.0	142.2	126.5	137.9	132.2	137.9	150.7	149.2
85°	226.0	204.7	172.0	120.8	93.8	81.0	98.1	102.3	105.2	115.2	115.2
87.5°	130.7	120.8	90.9	56.9	47.0	42.7	56.9	55.4	65.4	71.1	69.7
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)