

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: P193724

Luminaire Tested: **GLEON-AF-06-LED-E1-SL3-8030-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193724  
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-SL3-8030-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3000K, 1200mA 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: 31871 lumens  
Efficiency: N/A  
Efficacy: 83.4 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): 382  
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

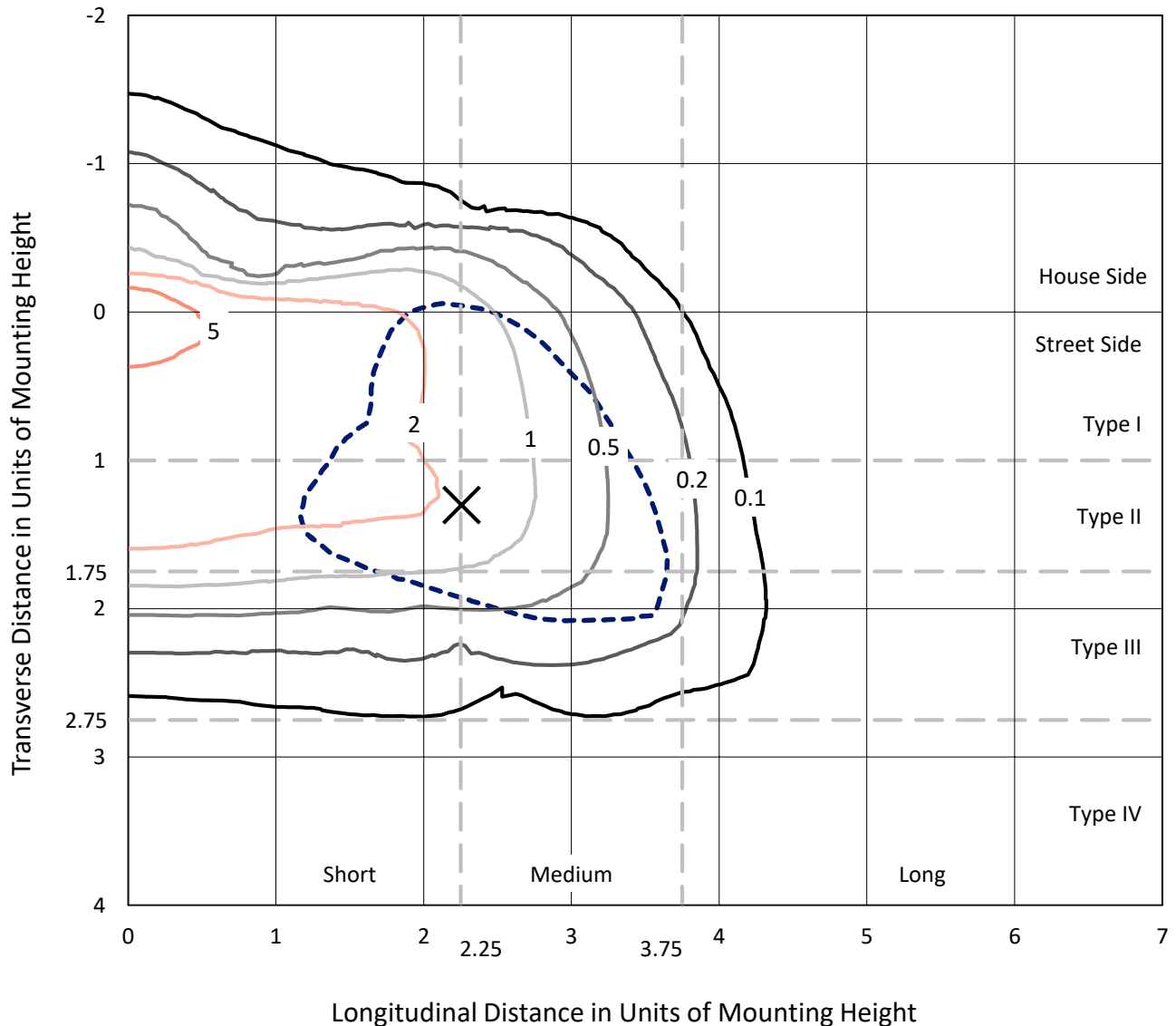


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

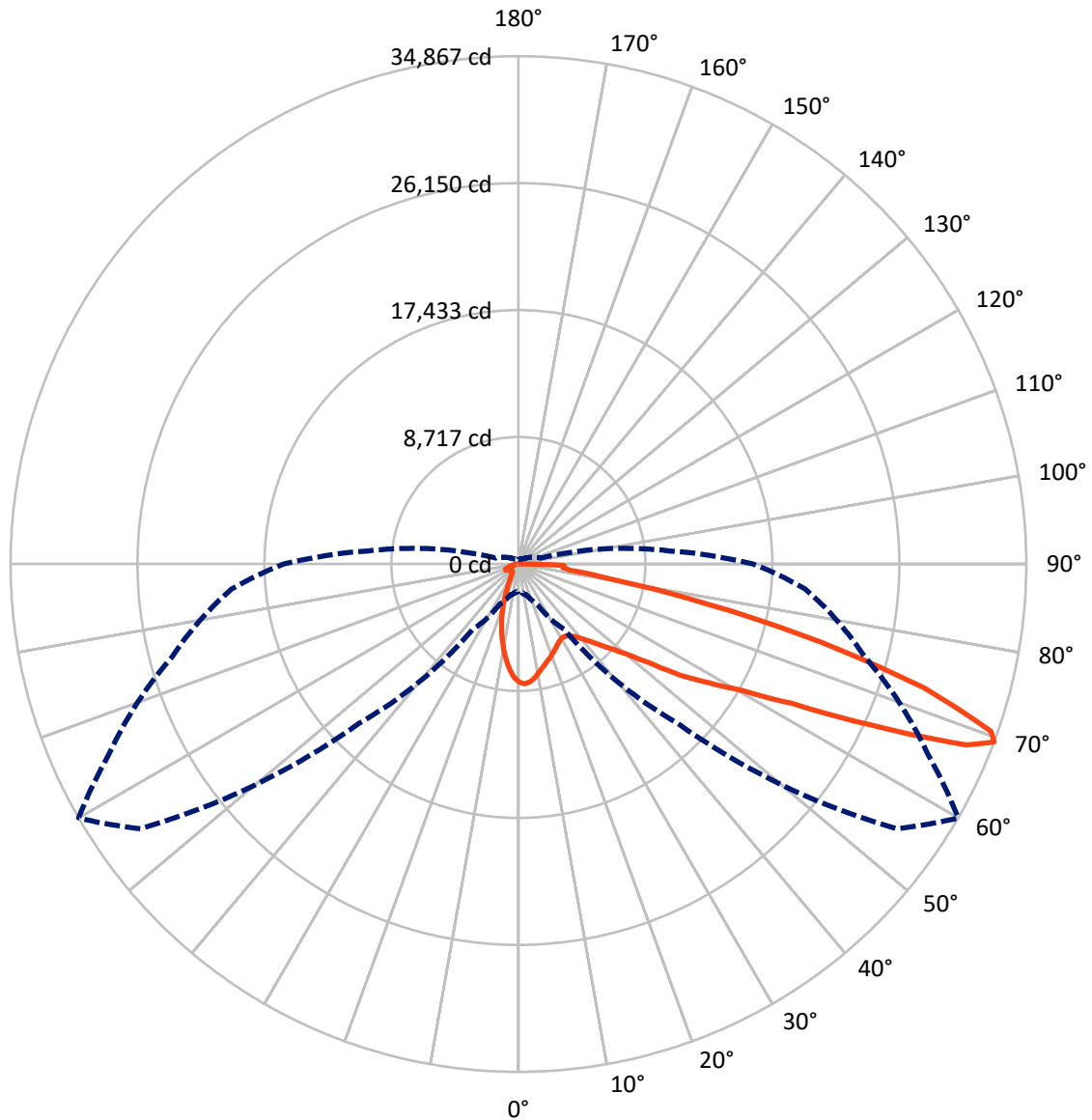


Based on 30 foot mounting height. Maximum calculated value = 9 fc  
 Type III - Medium - Non-Cutoff

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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	4534.2	0.0	4534.2
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	27336.8	0.0	27336.8
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	31871.0	0.0	31871.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	686.7	2.2
10°-20°	1463.0	4.6
20°-30°	1864.1	5.8
30°-40°	2562.7	8.0
40°-50°	4158.3	13.0
50°-60°	6668.8	20.9
60°-70°	8875.6	27.8
70°-80°	4792.2	15.0
80°-90°	799.6	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°	31871.0	100.0
0°-180°	31871.0	100.0

**Coefficient of Utilization**



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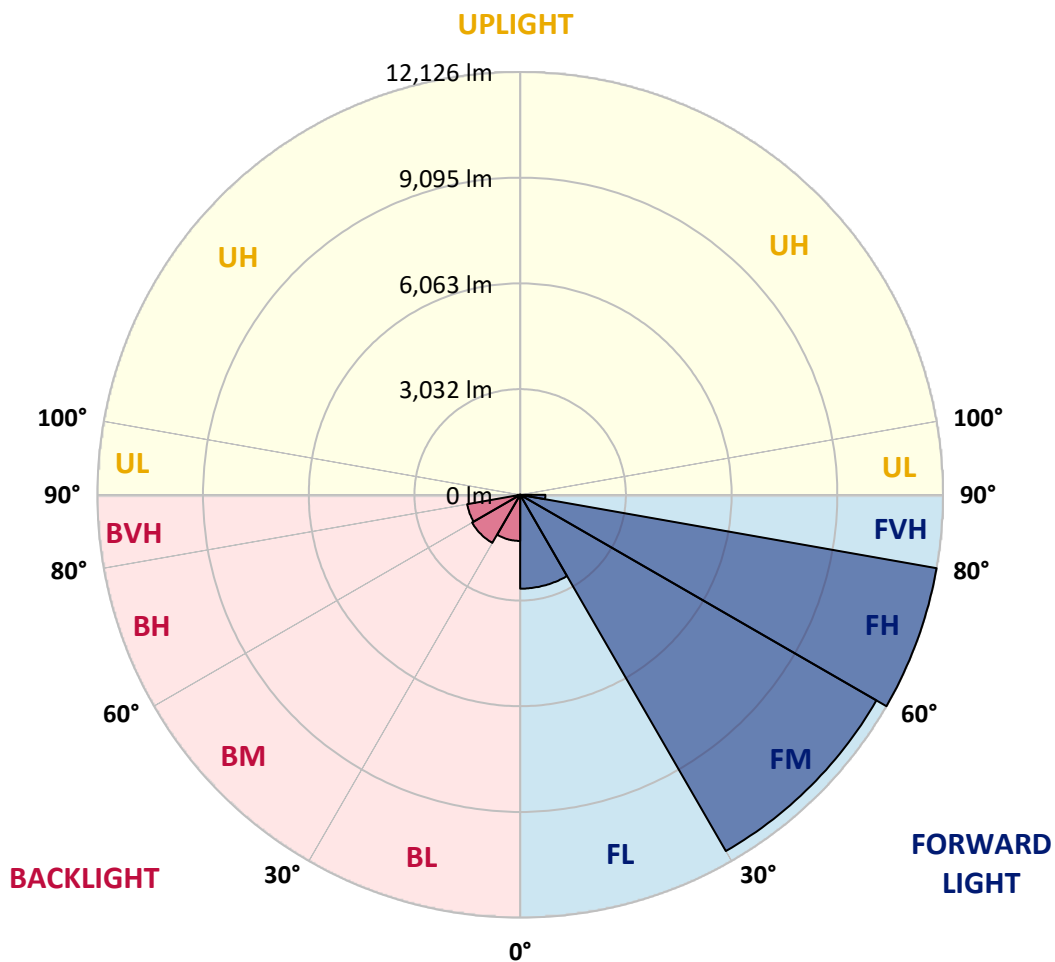
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2691.1	8.4			
FM (30°-60°)	11796.8	37.0			
FH (60°-80°)	12126.3	38.0			G5
FVH (80°-90°)	722.6	2.3			G4/750
BL (0°-30°)	1322.8	4.2	B3/2500		
BM (30°-60°)	1593.0	5.0	B2/2500		
BH (60°-80°)	1541.5	4.8	B3/2500		G3/2500
BVH (80°-90°)	77.0	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°	8121.2	8121.2	8121.2	8121.2	8121.2	8121.2	8121.2	8121.2	8121.2	8121.2	8121.2
2.5°	8287.5	8306.0	8298.3	8293.6	8307.5	8285.9	8241.3	8227.4	8205.9	8155.1	8068.9
5°	7976.5	8031.9	8028.8	8070.4	8139.7	8158.2	8138.2	8141.2	8101.2	8038.1	7894.9
7.5°	7439.2	7462.3	7474.6	7565.4	7691.7	7793.3	7879.5	7907.2	7888.7	7834.9	7650.1
10°	6884.9	6903.4	6932.7	7038.9	7199.0	7339.1	7502.3	7596.2	7636.3	7627.0	7420.7
12.5°	6409.2	6427.7	6466.2	6586.3	6777.2	6949.6	7186.7	7303.7	7399.2	7456.1	7234.4
15°	5982.8	6022.8	6059.7	6198.3	6412.3	6638.6	6906.5	7054.3	7202.1	7329.9	7069.7
17.5°	5650.2	5690.2	5711.8	5838.0	6065.9	6343.0	6657.1	6831.1	7015.8	7225.2	6906.5
20°	5457.8	5476.2	5467.0	5537.8	5742.6	6036.6	6409.2	6610.9	6834.1	7126.7	6743.3
22.5°	5403.9	5405.4	5371.5	5363.9	5496.3	5744.1	6144.4	6389.2	6663.2	7062.0	6603.2
25°	5534.7	5530.1	5437.7	5362.3	5376.2	5520.9	5888.8	6173.7	6520.1	7048.1	6495.4
27.5°	5825.7	5839.6	5702.6	5560.9	5420.8	5416.2	5694.9	5995.1	6403.1	7111.3	6449.2
30°	6233.7	6256.8	6110.5	5930.4	5667.1	5450.1	5619.4	5888.8	6330.7	7242.1	6441.5
32.5°	6680.2	6704.8	6594.0	6404.6	6059.7	5659.4	5671.8	5898.1	6327.6	7425.3	6493.9
35°	7155.9	7183.6	7126.7	6966.5	6583.2	6045.9	5871.9	6047.4	6427.7	7705.5	6634.0
37.5°	7687.1	7730.2	7745.6	7593.1	7183.6	6555.5	6199.8	6330.7	6654.0	8095.0	6891.1
40°	8452.2	8512.3	8507.6	8289.0	7871.8	7243.7	6706.4	6740.2	7006.6	8615.4	7302.2
42.5°	9917.9	9930.2	9546.9	9071.1	8629.3	7967.3	7303.7	7276.0	7493.1	9274.4	7907.2
45°	11782.3	11731.5	10878.6	9959.5	9420.6	8798.6	8081.2	7945.7	8110.4	10078.0	8664.7
47.5°	13329.6	13212.6	12134.9	10866.3	10258.1	9702.3	8994.1	8757.1	8847.9	10989.4	9643.8
50°	13866.9	13779.1	12886.2	11620.7	11051.0	10804.7	10118.0	9782.4	9807.0	12076.4	10790.8
52.5°	13751.4	13739.1	13143.3	12117.9	11793.1	11962.4	11709.9	11255.8	11015.6	13283.4	12028.6
55°	13478.9	13505.1	13289.5	12696.8	12641.4	13080.2	13789.9	13454.3	12707.6	14501.2	13308.0
57.5°	12532.1	12599.8	13074.0	13425.0	14007.0	14659.8	15464.9	15369.5	14528.9	15817.5	14829.1
60°	10096.5	10253.5	11525.2	13283.4	15412.6	17454.1	17814.3	17592.6	16407.2	17451.0	16838.2
62.5°	7074.3	7237.5	8749.4	11500.6	15181.7	20610.2	22014.3	21058.2	19104.5	19857.3	19438.6
65°	3787.3	3865.9	5020.5	7979.6	12816.9	21261.4	28152.5	26697.6	23375.2	22824.1	21663.2
67.5°	2089.2	2132.3	2574.2	4029.0	8209.0	18722.7	32063.0	33162.3	28712.9	24799.3	21258.3
69°	1889.0	1929.1	2218.5	3051.4	5493.2	15480.3	31681.2	34866.6	31053.1	24603.8	19761.9
70°	1847.5	1884.4	2144.6	2812.8	4446.3	12759.9	30401.8	34430.9	31610.4	23903.3	18456.3
72.5°	1662.7	1702.8	1955.2	2526.4	3799.7	6361.5	24081.9	29111.7	28699.1	20725.6	13999.3
75°	1550.3	1587.3	2015.3	2474.1	3638.0	4026.0	15876.0	21455.4	21096.7	14498.1	7548.5
77.5°	663.6	660.5	934.5	2093.8	3691.9	3898.2	8530.7	13403.5	12228.8	6196.8	2167.7
80°	443.4	435.7	443.4	615.8	3385.5	3919.7	4469.4	6803.3	5139.1	1579.6	1068.5
82.5°	381.8	375.7	389.5	375.7	1190.1	4474.0	3799.7	3618.0	2443.3	897.6	529.6
85°	257.1	246.3	335.6	337.2	561.9	3975.2	4280.0	3056.0	1976.8	532.7	261.7
87.5°	123.2	120.1	195.5	238.6	329.5	1615.0	4801.9	3131.5	1993.7	272.5	124.7
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°	8121.2	8121.2	8121.2	8121.2	8121.2	8121.2	8121.2	8121.2	8121.2	8121.2	8121.2
2.5°	8042.7	7979.6	7918.0	7844.1	7767.1	7680.9	7637.8	7594.7	7583.9	7571.6	7528.5
5°	7821.0	7731.7	7577.7	7408.4	7229.8	7055.8	6923.4	6840.3	6777.2	6744.8	6687.9
7.5°	7534.6	7403.8	7134.4	6841.8	6541.6	6267.6	6030.5	5881.1	5739.5	5673.3	5597.9
10°	7262.1	7066.6	6647.8	6216.8	5785.7	5371.5	4982.0	4706.5	4461.7	4324.6	4227.7
12.5°	7028.1	6760.2	6179.8	5596.3	5005.1	4415.5	3832.0	3373.2	2989.8	2788.2	2685.0
15°	6800.3	6477.0	5734.9	4994.4	4235.3	3433.2	2666.5	2146.2	1829.0	1702.8	1659.7
17.5°	6594.0	6179.8	5288.4	4387.8	3440.9	2471.0	1792.1	1505.7	1384.1	1342.5	1328.6
20°	6370.7	5879.6	4825.0	3753.5	2612.6	1727.4	1399.5	1273.2	1224.0	1211.6	1205.5
22.5°	6155.2	5584.0	4381.6	3074.5	1876.7	1333.3	1202.4	1150.1	1142.4	1153.1	1153.1
25°	5972.0	5319.2	3902.8	2364.8	1377.9	1122.3	1076.2	1063.8	1093.1	1133.1	1140.8
27.5°	5835.0	5102.1	3393.2	1745.9	1097.7	976.1	974.5	994.6	1066.9	1143.9	1159.3
30°	5741.0	4895.8	2848.2	1259.4	920.7	859.1	883.7	926.8	1033.0	1142.4	1171.6
32.5°	5693.3	4743.4	2280.1	974.5	788.3	754.4	796.0	848.3	953.0	1054.6	1093.1
35°	5730.3	4631.0	1744.3	812.9	695.9	669.7	712.8	763.6	825.2	868.3	897.6
37.5°	5868.8	4586.4	1316.3	728.2	632.8	608.1	642.0	671.3	695.9	708.2	722.1
40°	6167.5	4634.1	1054.6	685.1	597.4	566.6	580.4	591.2	606.6	618.9	625.1
42.5°	6607.8	4777.3	945.3	668.2	578.9	534.2	531.2	535.8	555.8	578.9	583.5
45°	7223.6	5029.8	937.6	678.9	569.6	508.1	494.2	500.4	531.2	566.6	572.7
47.5°	8010.4	5414.7	999.2	711.3	577.3	494.2	471.1	478.8	517.3	565.0	572.7
50°	8963.4	5952.0	1102.3	759.0	611.2	497.3	463.4	468.0	508.1	560.4	568.1
52.5°	10088.8	6714.1	1214.7	805.2	646.6	517.3	469.6	458.8	495.7	541.9	551.2
55°	11340.4	7691.7	1330.2	846.8	665.1	541.9	481.9	446.5	472.6	511.1	518.8
57.5°	12876.9	9058.8	1530.3	886.8	677.4	558.9	494.2	434.2	443.4	471.1	477.3
60°	14956.9	10992.5	1882.9	953.0	705.1	565.0	492.7	423.4	414.1	429.5	432.6
62.5°	17449.4	13092.5	2176.9	1036.1	751.3	569.6	483.4	415.7	389.5	389.5	392.6
65°	18929.0	13654.4	2013.8	1105.4	789.8	565.0	472.6	408.0	371.0	354.1	355.6
67.5°	17674.2	12008.6	1725.9	1119.3	788.3	543.5	455.7	394.1	352.6	326.4	324.8
69°	16102.3	10361.3	1596.5	1082.3	751.3	515.8	434.2	378.7	338.7	311.0	309.5
70°	14835.3	9355.9	1511.9	1042.3	711.3	495.7	417.2	364.9	327.9	301.8	298.7
72.5°	10786.2	6130.6	1291.7	896.0	586.6	415.7	360.3	320.2	292.5	277.1	274.0
75°	5390.0	2923.6	1048.4	726.7	449.6	332.5	295.6	267.9	254.0	250.9	249.4
77.5°	1770.5	1339.4	749.8	541.9	334.1	260.2	238.6	218.6	215.5	224.8	221.7
80°	973.0	779.0	475.7	358.7	227.9	190.9	187.8	177.1	181.7	197.1	194.0
82.5°	495.7	404.9	294.1	215.5	154.0	137.0	149.3	143.2	149.3	163.2	161.7
85°	244.8	221.7	186.3	130.9	101.6	87.8	106.2	110.8	113.9	124.7	124.7
87.5°	141.6	130.9	98.5	61.6	50.8	46.2	61.6	60.0	70.8	77.0	75.4
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)