

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: P191947

Luminaire Tested: **GLEON-AF-09-LED-E1-SL3-7050-1200-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191947  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-09-LED-E1-SL3-7050-1200-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 49871 lumens  
Efficiency: N/A  
Efficacy: 86.7 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G5

Input Watts (W): 575  
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

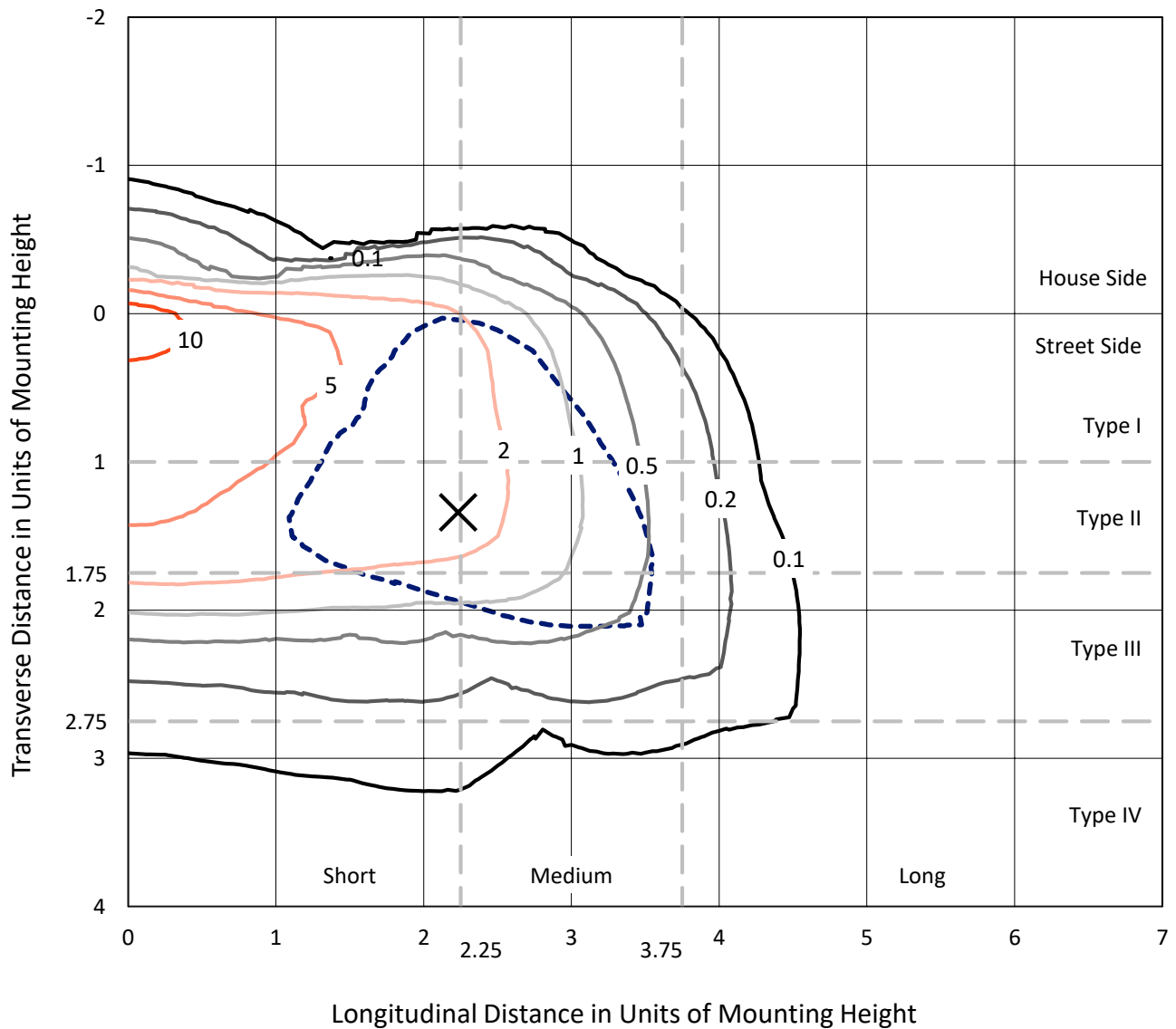


REPORT NUMBER: P191947

CATALOG NUMBER: GLEON-AF-09-LED-E1-SL3-7050-1200-HSS

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

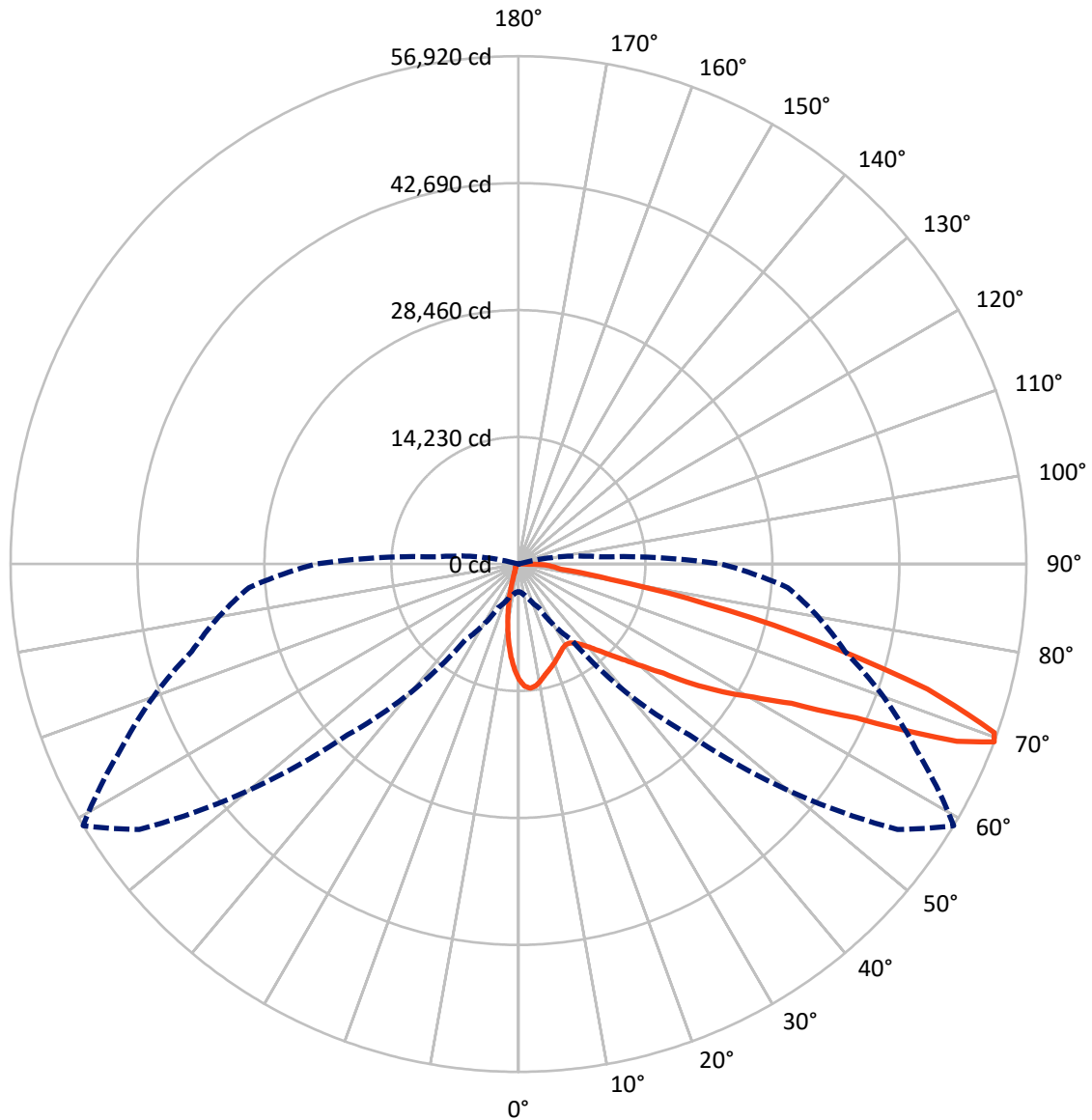


Based on 30 foot mounting height. Maximum calculated value = 14.5 fc  
 Type III - Short - Non-Cutoff

REPORT NUMBER: P191947

CATALOG NUMBER: GLEON-AF-09-LED-E1-SL3-7050-1200-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P191947

CATALOG NUMBER: GLEON-AF-09-LED-E1-SL3-7050-1200-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4061.3	0.0	4061.3
	% Fixture	8.1	0.0	8.1
<b>Street Side</b>	Lumens	45809.7	0.0	45809.7
	% Fixture	91.9	0.0	91.9
<b>Total</b>	Lumens	49871.0	0.0	49871.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1053.7	2.1
10°-20°	2177.1	4.4
20°-30°	2929.6	5.9
30°-40°	4253.6	8.5
40°-50°	7082.6	14.2
50°-60°	11048.7	22.2
60°-70°	13671.9	27.4
70°-80°	6928.8	13.9
80°-90°	725.0	1.5
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°	49871.0	100.0
0°-180°	49871.0	100.0



REPORT NUMBER: P191947

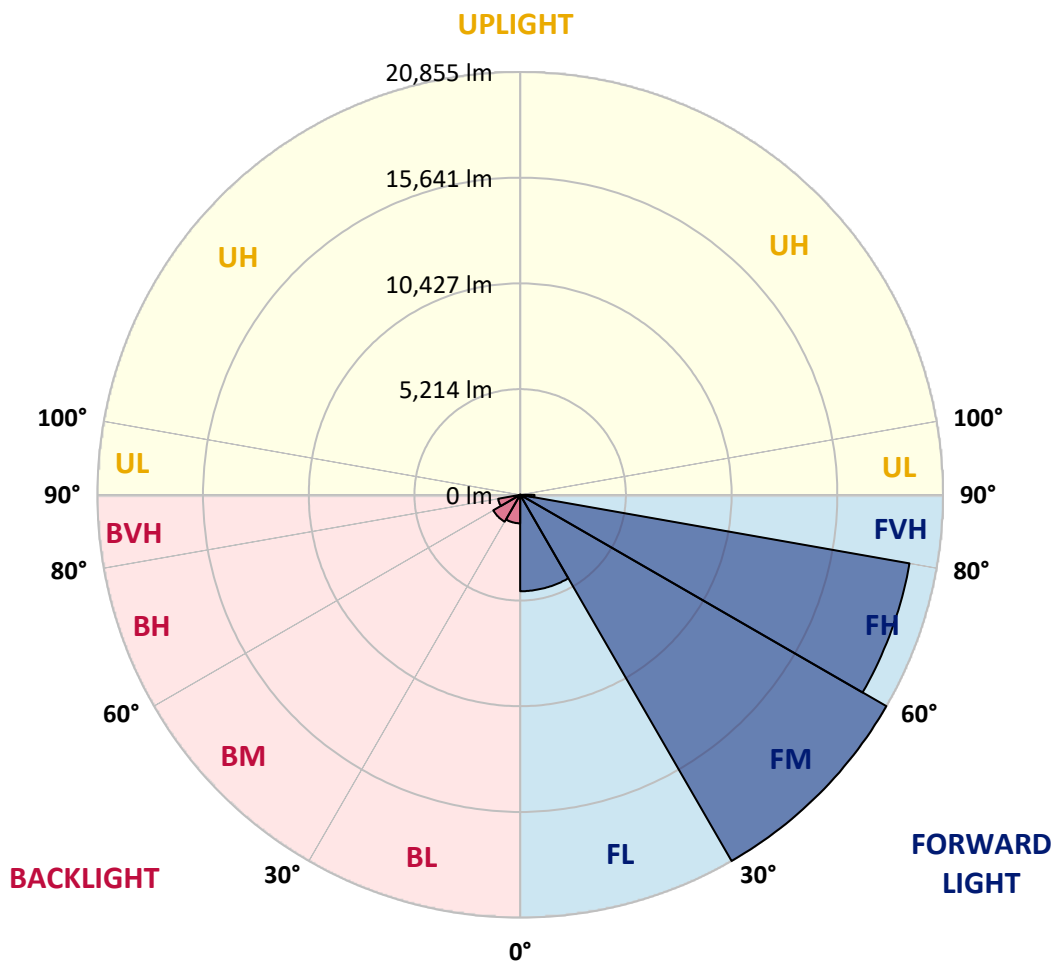
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4754.6	9.5			
FM (30°-60°)	20854.6	41.8			
FH (60°-80°)	19497.7	39.1			G5
FVH (80°-90°)	702.7	1.4			G4/750
BL (0°-30°)	1405.8	2.8	B3/2500		
BM (30°-60°)	1530.3	3.1	B2/2500		
BH (60°-80°)	1103.0	2.2	B3/2500		G3/2500
BVH (80°-90°)	22.3	0.0			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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	12980.7	12980.7	12980.7	12980.7	12980.7	12980.7	12980.7	12980.7	12980.7	12980.7	12980.7
2.5°	14227.2	14221.6	14159.5	14131.3	14080.6	13973.4	13807.0	13719.6	13578.6	13333.2	13003.3
5°	14097.5	14165.2	14201.8	14204.6	14241.3	14201.8	14052.4	13979.0	13784.4	13389.6	12797.4
7.5°	13217.6	13243.0	13347.3	13437.6	13612.4	13778.8	13832.4	13801.4	13685.7	13262.7	12475.9
10°	12275.7	12301.1	12425.2	12543.6	12780.5	13037.1	13307.9	13364.3	13412.2	13082.3	12165.7
12.5°	11463.5	11488.9	11615.8	11770.9	12047.3	12363.1	12783.3	12876.4	13087.9	12910.2	11917.6
15°	10764.2	10775.4	10899.5	11091.3	11421.2	11827.3	12303.9	12453.4	12777.7	12789.0	11700.4
17.5°	10169.1	10197.3	10273.5	10456.8	10817.7	11319.7	11875.3	12089.6	12470.3	12687.4	11488.9
20°	9805.3	9833.5	9830.7	9932.2	10256.6	10792.4	11446.6	11703.2	12165.7	12583.1	11300.0
22.5°	9734.8	9734.8	9661.5	9647.4	9839.2	10287.6	11001.1	11314.1	11892.2	12538.0	11167.4
25°	9985.8	9974.5	9791.2	9641.8	9650.2	9918.1	10569.6	10941.8	11660.9	12569.0	11096.9
27.5°	10516.0	10501.9	10270.7	9985.8	9757.4	9754.6	10242.5	10642.9	11477.6	12715.6	11125.1
30°	11249.2	11243.6	10992.6	10634.4	10219.9	9839.2	10129.7	10493.4	11359.2	12980.7	11190.0
32.5°	12050.1	12041.7	11852.7	11474.8	10950.3	10219.9	10248.1	10552.7	11393.0	13333.2	11347.9
35°	12899.0	12884.8	12803.1	12473.1	11895.0	10922.1	10637.3	10874.1	11607.4	13860.6	11658.1
37.5°	13818.3	13832.4	13891.6	13575.8	12969.5	11906.3	11288.7	11449.4	12038.8	14576.9	12162.9
40°	15174.7	15171.9	15191.7	14777.1	14193.4	13110.5	12199.6	12250.3	12760.8	15527.2	12930.0
42.5°	17636.6	17464.6	16942.9	16096.9	15510.3	14486.6	13347.3	13293.8	13643.4	16703.2	14004.4
45°	20944.6	20578.0	19224.3	17602.8	16852.7	16037.7	14760.2	14588.2	14811.0	18116.1	15329.8
47.5°	23790.0	23409.3	21494.5	19170.8	18276.8	17509.7	16415.6	16105.4	16178.7	19698.1	17010.6
50°	24757.3	24571.2	22898.9	20535.7	19655.8	19362.5	18336.0	17958.1	17853.8	21528.3	18959.3
52.5°	24421.7	24407.6	23293.7	21421.2	20919.2	21280.2	20752.8	20315.7	19932.2	23457.3	20941.8
55°	23883.1	23953.6	23454.4	22196.7	22179.8	23031.4	24057.9	23694.1	22583.0	25552.6	22650.7
57.5°	22396.9	22698.7	23364.2	23663.1	24356.9	25228.2	26810.3	27024.6	25710.5	27157.2	24069.2
60°	18172.5	18835.2	21012.3	23874.6	27162.8	29334.3	30132.3	30315.6	28276.7	28491.1	25984.0
62.5°	12899.0	13575.8	16336.6	21178.6	27205.1	34729.0	35081.5	34362.4	31102.4	30467.9	29286.3
65°	6847.1	7368.8	9624.9	15287.5	23587.0	35981.1	43736.3	41593.1	36088.3	34356.8	33553.1
67.5°	3502.5	3660.4	4557.2	7481.6	16215.3	31959.7	51494.3	53003.0	44681.0	38214.6	33347.2
69°	3099.2	3192.3	3787.3	5408.9	10383.5	27069.7	51872.2	56920.1	49179.0	37893.1	30304.4
70°	3000.5	3082.3	3623.8	4895.6	8116.1	22701.5	50425.5	56576.0	50329.6	36669.2	28031.4
72.5°	2546.5	2617.0	3226.1	4326.0	6596.1	11269.0	40961.4	47941.0	45163.2	30546.9	20290.3
75°	1703.3	1934.6	3096.4	4055.2	6136.4	6401.5	27004.9	34644.4	32182.5	20603.4	10569.6
77.5°	408.9	439.9	874.2	3226.1	5611.9	5634.5	13888.8	21536.8	17566.1	7343.4	2498.6
80°	220.0	211.5	245.3	640.2	5225.6	5287.6	6252.1	10454.0	6271.8	1218.3	823.5
82.5°	155.1	146.6	157.9	267.9	1644.1	4816.7	4523.4	4732.1	2600.1	468.1	369.4
85°	56.4	53.6	87.4	242.5	516.1	2769.3	4647.5	3903.0	2106.6	214.3	270.7
87.5°	19.7	16.9	33.8	132.5	157.9	1178.8	2868.0	2949.8	829.1	129.7	126.9
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°	12980.7	12980.7	12980.7	12980.7	12980.7	12980.7	12980.7	12980.7	12980.7	12980.7	12980.7
2.5°	12865.1	12690.3	12368.8	12038.8	11734.3	11367.7	11184.4	11003.9	10927.7	10899.5	10767.0
5°	12492.9	12196.8	11514.3	10829.0	10197.3	9526.2	9083.4	8728.1	8519.4	8417.9	8257.1
7.5°	12016.3	11531.2	10496.3	9438.7	8454.5	7484.4	6765.3	6212.6	5831.9	5648.6	5482.2
10°	11553.8	10908.0	9435.9	7994.9	6658.2	5372.2	4379.6	3660.4	3200.8	2989.3	2853.9
12.5°	11139.2	10301.7	8412.2	6587.7	4909.7	3403.8	2394.2	1821.8	1536.9	1438.2	1390.3
15°	10769.8	9743.3	7445.0	5250.9	3324.8	1945.8	1308.5	1113.9	1068.8	1068.8	1063.2
17.5°	10420.1	9196.2	6511.5	3996.0	2086.8	1190.1	995.5	970.1	970.1	981.4	981.4
20°	10084.5	8674.5	5609.1	2868.0	1314.1	944.7	899.6	894.0	899.6	913.7	913.7
22.5°	9796.9	8200.7	4765.9	1968.4	975.7	851.7	829.1	820.6	823.5	831.9	837.6
25°	9582.6	7800.3	3970.6	1333.9	840.4	775.5	750.1	736.0	724.8	724.8	730.4
27.5°	9447.2	7461.9	3200.8	970.1	755.8	705.0	665.5	643.0	617.6	603.5	609.1
30°	9348.5	7140.4	2478.8	792.4	676.8	626.1	575.3	538.6	502.0	485.1	490.7
32.5°	9311.8	6880.9	1852.8	699.4	606.3	549.9	487.9	439.9	400.4	386.3	389.2
35°	9410.5	6675.1	1356.4	631.7	549.9	479.4	408.9	355.3	324.3	315.8	318.7
37.5°	9670.0	6565.1	1015.2	575.3	499.2	420.2	341.2	290.5	270.7	270.7	273.5
40°	10160.7	6562.3	815.0	535.8	454.0	363.8	282.0	245.3	234.1	239.7	242.5
42.5°	10877.0	6711.7	710.7	499.2	414.5	310.2	234.1	208.7	205.9	211.5	214.3
45°	11855.5	6985.3	654.3	468.1	372.2	259.4	197.4	180.5	180.5	188.9	191.8
47.5°	13054.1	7385.7	606.3	437.1	329.9	217.1	169.2	157.9	160.7	169.2	172.0
50°	14497.9	7890.5	558.4	403.3	298.9	180.5	146.6	138.2	141.0	152.3	155.1
52.5°	16142.0	8570.2	518.9	372.2	259.4	149.5	124.1	118.4	124.1	135.4	138.2
55°	17552.0	9179.3	470.9	346.9	208.7	124.1	101.5	101.5	107.2	121.3	124.1
57.5°	18908.5	9816.6	428.6	298.9	163.6	98.7	84.6	87.4	95.9	110.0	112.8
60°	20899.5	10896.7	377.9	251.0	124.1	79.0	70.5	73.3	84.6	98.7	101.5
62.5°	24280.7	12540.8	327.1	208.7	95.9	62.0	56.4	62.0	76.1	93.1	95.9
65°	27332.0	13209.2	267.9	174.8	73.3	47.9	47.9	56.4	73.3	90.2	93.1
67.5°	25631.5	11119.5	208.7	138.2	56.4	36.7	39.5	53.6	70.5	90.2	93.1
69°	22667.6	9091.9	177.7	110.0	47.9	33.8	36.7	53.6	70.5	87.4	90.2
70°	20358.0	7676.2	157.9	93.1	42.3	33.8	36.7	50.8	70.5	87.4	90.2
72.5°	13635.0	4145.5	126.9	67.7	39.5	31.0	31.0	50.8	67.7	84.6	87.4
75°	5860.1	1144.9	101.5	47.9	33.8	28.2	28.2	47.9	64.9	81.8	87.4
77.5°	1071.6	290.5	81.8	42.3	33.8	28.2	25.4	45.1	62.0	79.0	81.8
80°	425.8	143.8	64.9	36.7	31.0	25.4	22.6	42.3	59.2	76.1	79.0
82.5°	256.6	81.8	53.6	33.8	31.0	22.6	19.7	36.7	56.4	73.3	76.1
85°	208.7	56.4	42.3	33.8	28.2	22.6	16.9	33.8	50.8	70.5	73.3
87.5°	101.5	39.5	39.5	31.0	28.2	22.6	16.9	31.0	47.9	67.7	70.5
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)