

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: P191946

Luminaire Tested: **GLEON-AF-08-LED-E1-SL3-7050-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191946
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-08-LED-E1-SL3-7050-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 44708 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 511
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

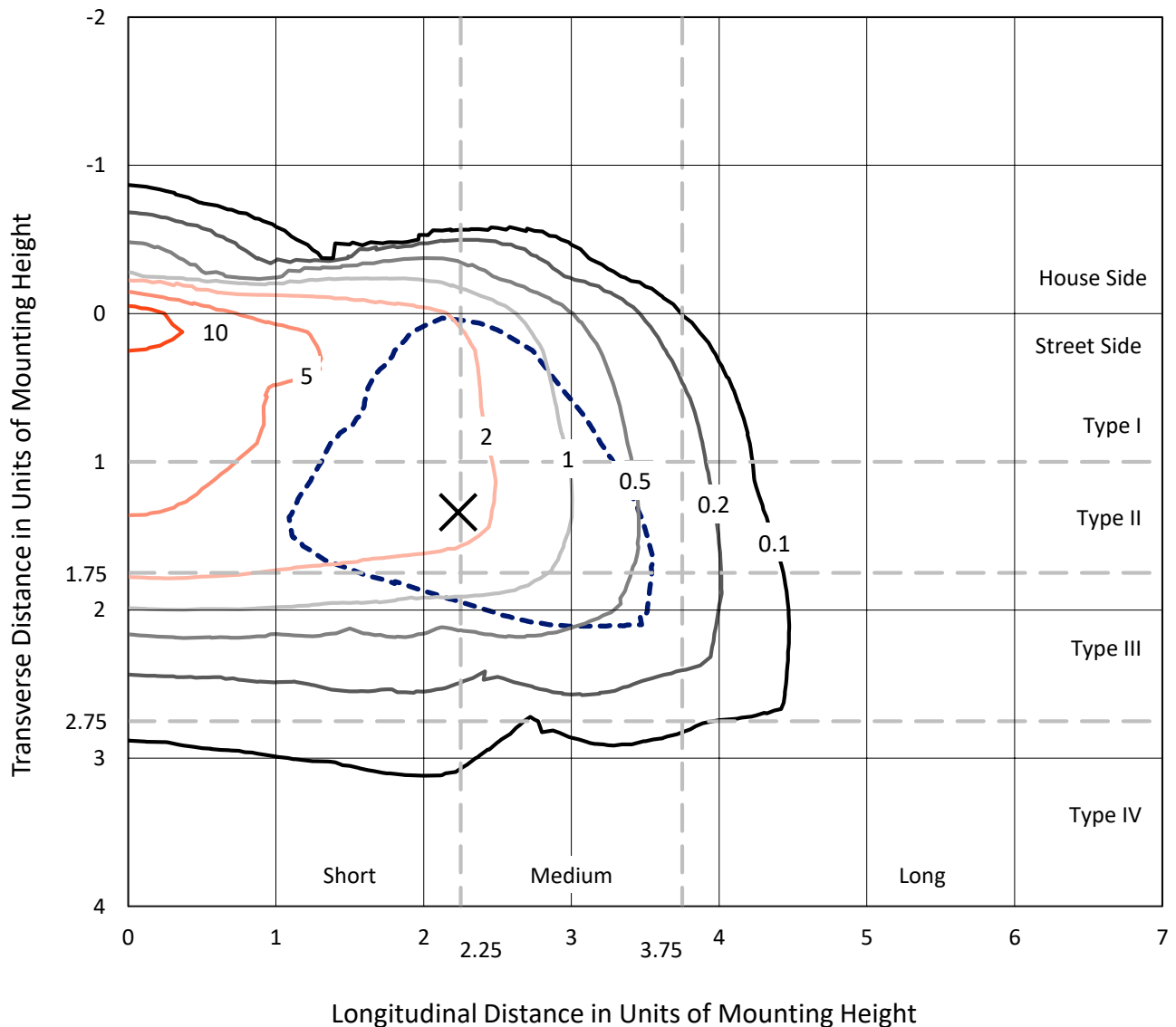


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

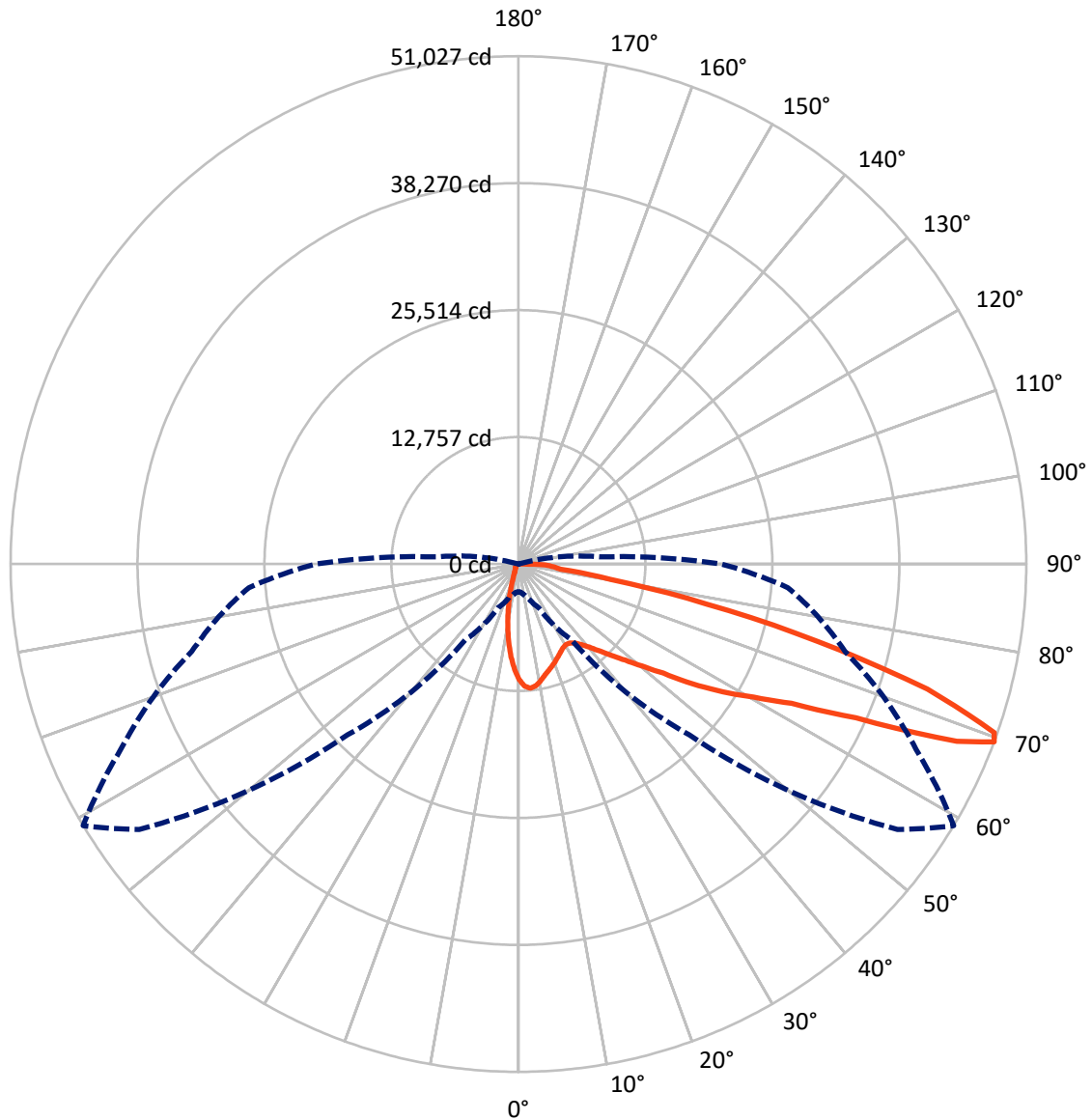


Based on 30 foot mounting height. Maximum calculated value = 13 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3640.9	0.0	3640.9
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	41067.1	0.0	41067.1
	% Fixture	91.9	0.0	91.9
Total	Lumens	44708.0	0.0	44708.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	944.6	2.1
10°-20°	1951.7	4.4
20°-30°	2626.3	5.9
30°-40°	3813.2	8.5
40°-50°	6349.4	14.2
50°-60°	9904.9	22.2
60°-70°	12256.5	27.4
70°-80°	6211.5	13.9
80°-90°	649.9	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°	44708.0	100.0
0°-180°	44708.0	100.0



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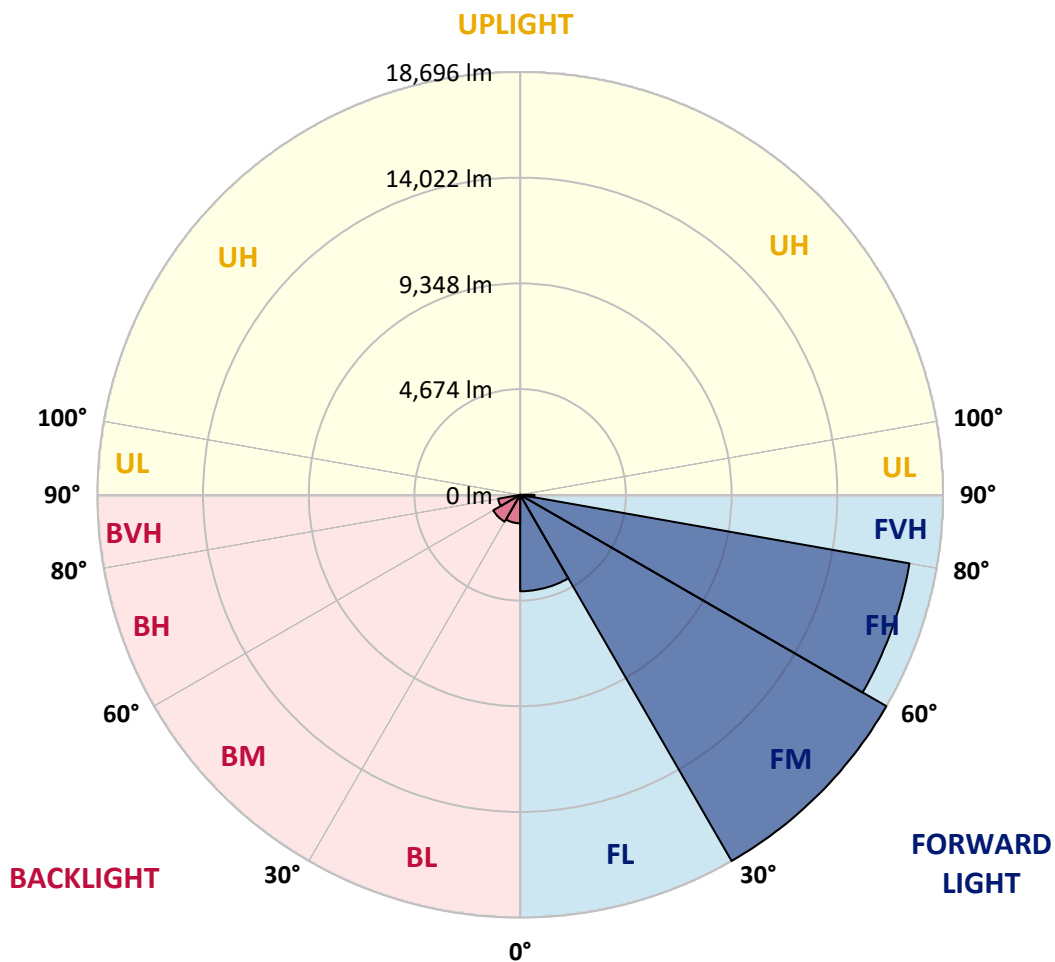
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4262.4	9.5			
FM	(30°-60°)	18695.6	41.8			
FH	(60°-80°)	17479.2	39.1			G5
FVH	(80°-90°)	629.9	1.4			G4/750
BL	(0°-30°)	1260.2	2.8	B3/2500		
BM	(30°-60°)	1371.9	3.1	B2/2500		
BH	(60°-80°)	988.8	2.2	B2/1000		G2/1000
BVH	(80°-90°)	20.0	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°	11636.9	11636.9	11636.9	11636.9	11636.9	11636.9	11636.9	11636.9	11636.9	11636.9	11636.9
2.5°	12754.3	12749.2	12693.6	12668.3	12622.8	12526.8	12377.6	12299.2	12172.8	11952.9	11657.1
5°	12638.0	12698.7	12731.5	12734.1	12766.9	12731.5	12597.6	12531.8	12357.4	12003.4	11472.5
7.5°	11849.2	11872.0	11965.5	12046.4	12203.2	12352.3	12400.4	12372.6	12268.9	11889.7	11184.3
10°	11004.8	11027.6	11138.8	11245.0	11457.4	11687.4	11930.1	11980.7	12023.7	11727.9	10906.3
12.5°	10276.8	10299.5	10413.3	10552.3	10800.1	11083.2	11459.9	11543.3	11732.9	11573.7	10683.8
15°	9649.8	9659.9	9771.1	9943.0	10238.8	10602.9	11030.1	11164.1	11454.9	11465.0	10489.1
17.5°	9116.4	9141.6	9209.9	9374.2	9697.8	10147.8	10645.9	10838.0	11179.3	11374.0	10299.5
20°	8790.2	8815.5	8813.0	8904.0	9194.7	9675.1	10261.6	10491.6	10906.3	11280.4	10130.1
22.5°	8727.0	8727.0	8661.3	8648.7	8820.6	9222.5	9862.1	10142.8	10661.0	11240.0	10011.3
25°	8952.0	8941.9	8777.6	8643.6	8651.2	8891.4	9475.3	9809.1	10453.7	11267.8	9948.1
27.5°	9427.3	9414.7	9207.4	8952.0	8747.2	8744.7	9182.1	9541.1	10289.4	11399.2	9973.4
30°	10084.6	10079.6	9854.6	9533.5	9161.9	8820.6	9081.0	9407.1	10183.2	11636.9	10031.5
32.5°	10802.6	10795.0	10625.6	10286.9	9816.6	9161.9	9187.1	9460.2	10213.6	11952.9	10173.1
35°	11563.6	11550.9	11477.6	11181.8	10663.6	9791.4	9536.0	9748.4	10405.7	12425.6	10451.2
37.5°	12387.7	12400.4	12453.5	12170.3	11626.8	10673.7	10120.0	10264.1	10792.5	13067.8	10903.7
40°	13603.7	13601.2	13618.9	13247.3	12724.0	11753.2	10936.6	10982.1	11439.7	13919.8	11591.4
42.5°	15810.8	15656.6	15188.9	14430.4	13904.6	12986.9	11965.5	11917.5	12231.0	14974.0	12554.6
45°	18776.2	18447.6	17234.1	15780.4	15108.0	14377.3	13232.1	13077.9	13277.6	16240.6	13742.8
47.5°	21327.1	20985.8	19269.2	17186.1	16384.7	15697.0	14716.1	14438.0	14503.7	17658.8	15249.5
50°	22194.2	22027.4	20528.2	18409.7	17620.9	17358.0	16437.7	16099.0	16005.4	19299.6	16996.5
52.5°	21893.4	21880.8	20882.2	19203.5	18753.5	19077.1	18604.3	18212.5	17868.7	21028.8	18773.7
55°	21410.5	21473.7	21026.3	19898.7	19883.6	20647.0	21567.3	21241.2	20245.1	22907.2	20305.8
57.5°	20078.2	20348.7	20945.4	21213.3	21835.3	22616.4	24034.7	24226.8	23048.7	24345.7	21577.4
60°	16291.1	16885.2	18836.9	21402.9	24350.7	26297.4	27012.8	27177.1	25349.3	25541.5	23294.0
62.5°	11563.6	12170.3	14645.3	18986.1	24388.6	31133.6	31449.6	30805.0	27882.5	27313.7	26254.4
65°	6138.2	6605.9	8628.4	13704.9	21145.1	32256.1	39208.4	37287.0	32352.2	30799.9	30079.4
67.5°	3139.9	3281.5	4085.4	6707.1	14536.6	28651.0	46163.2	47515.8	40055.3	34258.4	29894.9
69°	2778.4	2861.8	3395.2	4848.9	9308.5	24267.3	46502.0	51027.3	44087.6	33970.2	27167.0
70°	2689.9	2763.2	3248.6	4388.8	7275.9	20351.3	45205.1	50718.9	45119.1	32873.0	25129.4
72.5°	2282.9	2346.1	2892.2	3878.1	5913.2	10102.3	36720.7	42977.8	40487.6	27384.4	18189.7
75°	1527.0	1734.3	2775.9	3635.4	5501.2	5738.8	24209.1	31057.8	28850.8	18470.3	9475.3
77.5°	366.6	394.4	783.7	2892.2	5030.9	5051.2	12450.9	19307.1	15747.6	6583.2	2239.9
80°	197.2	189.6	219.9	573.9	4684.6	4740.2	5604.8	9371.7	5622.5	1092.1	738.2
82.5°	139.0	131.5	141.6	240.2	1473.9	4318.0	4055.1	4242.2	2330.9	419.7	331.2
85°	50.6	48.0	78.4	217.4	462.6	2482.6	4166.3	3498.9	1888.5	192.1	242.7
87.5°	17.7	15.2	30.3	118.8	141.6	1056.7	2571.1	2644.4	743.3	116.3	113.8
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°	11636.9	11636.9	11636.9	11636.9	11636.9	11636.9	11636.9	11636.9	11636.9	11636.9	11636.9
2.5°	11533.2	11376.5	11088.3	10792.5	10519.5	10190.8	10026.5	9864.7	9796.4	9771.1	9652.3
5°	11199.5	10934.1	10322.3	9707.9	9141.6	8539.9	8143.0	7824.5	7637.4	7546.4	7402.3
7.5°	10772.3	10337.4	9409.6	8461.6	7579.3	6709.6	6064.9	5569.4	5228.1	5063.8	4914.6
10°	10357.7	9778.7	8459.0	7167.2	5968.9	4816.0	3926.1	3281.5	2869.4	2679.8	2558.4
12.5°	9986.0	9235.2	7541.3	5905.7	4401.4	3051.4	2146.4	1633.2	1377.8	1289.3	1246.4
15°	9654.8	8734.6	6674.2	4707.3	2980.6	1744.4	1173.0	998.6	958.2	958.2	953.1
17.5°	9341.4	8244.2	5837.4	3582.3	1870.8	1066.9	892.4	869.7	869.7	879.8	879.8
20°	9040.5	7776.5	5028.4	2571.1	1178.1	846.9	806.5	801.4	806.5	819.1	819.1
22.5°	8782.6	7351.7	4272.5	1764.6	874.7	763.5	743.3	735.7	738.2	745.8	750.8
25°	8590.5	6992.7	3559.6	1195.8	753.4	695.2	672.5	659.8	649.7	649.7	654.8
27.5°	8469.2	6689.4	2869.4	869.7	677.5	632.0	596.6	576.4	553.7	541.0	546.1
30°	8380.7	6401.2	2222.2	710.4	606.7	561.2	515.7	482.9	450.0	434.8	439.9
32.5°	8347.8	6168.6	1661.0	627.0	543.5	493.0	437.4	394.4	359.0	346.4	348.9
35°	8436.3	5984.0	1216.0	566.3	493.0	429.8	366.6	318.5	290.7	283.1	285.7
37.5°	8668.9	5885.4	910.1	515.7	447.5	376.7	305.9	260.4	242.7	242.7	245.2
40°	9108.8	5882.9	730.6	480.3	407.0	326.1	252.8	219.9	209.8	214.9	217.4
42.5°	9750.9	6016.9	637.1	447.5	371.6	278.1	209.8	187.1	184.6	189.6	192.1
45°	10628.2	6262.1	586.5	419.7	333.7	232.6	177.0	161.8	161.8	169.4	171.9
47.5°	11702.6	6621.1	543.5	391.9	295.8	194.7	151.7	141.6	144.1	151.7	154.2
50°	12997.0	7073.6	500.6	361.5	268.0	161.8	131.5	123.9	126.4	136.5	139.0
52.5°	14470.9	7682.9	465.2	333.7	232.6	134.0	111.2	106.2	111.2	121.3	123.9
55°	15734.9	8229.0	422.2	311.0	187.1	111.2	91.0	91.0	96.1	108.7	111.2
57.5°	16951.0	8800.3	384.3	268.0	146.6	88.5	75.8	78.4	86.0	98.6	101.1
60°	18735.8	9768.6	338.8	225.0	111.2	70.8	63.2	65.7	75.8	88.5	91.0
62.5°	21767.0	11242.5	293.3	187.1	86.0	55.6	50.6	55.6	68.3	83.4	86.0
65°	24502.4	11841.7	240.2	156.7	65.7	43.0	43.0	50.6	65.7	80.9	83.4
67.5°	22978.0	9968.3	187.1	123.9	50.6	32.9	35.4	48.0	63.2	80.9	83.4
69°	20320.9	8150.6	159.3	98.6	43.0	30.3	32.9	48.0	63.2	78.4	80.9
70°	18250.4	6881.5	141.6	83.4	37.9	30.3	32.9	45.5	63.2	78.4	80.9
72.5°	12223.4	3716.3	113.8	60.7	35.4	27.8	27.8	45.5	60.7	75.8	78.4
75°	5253.4	1026.4	91.0	43.0	30.3	25.3	25.3	43.0	58.1	73.3	78.4
77.5°	960.7	260.4	73.3	37.9	30.3	25.3	22.8	40.4	55.6	70.8	73.3
80°	381.7	128.9	58.1	32.9	27.8	22.8	20.2	37.9	53.1	68.3	70.8
82.5°	230.1	73.3	48.0	30.3	27.8	20.2	17.7	32.9	50.6	65.7	68.3
85°	187.1	50.6	37.9	30.3	25.3	20.2	15.2	30.3	45.5	63.2	65.7
87.5°	91.0	35.4	35.4	27.8	25.3	20.2	15.2	27.8	43.0	60.7	63.2
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)