

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: P193578

Luminaire Tested: **GLEON-AF-10-LED-E1-SL2-8030-600-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193578  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-10-LED-E1-SL2-8030-600-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26237 lumens  
Efficiency: N/A  
Efficacy: 81.2 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G4

Input Watts (W): 323  
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

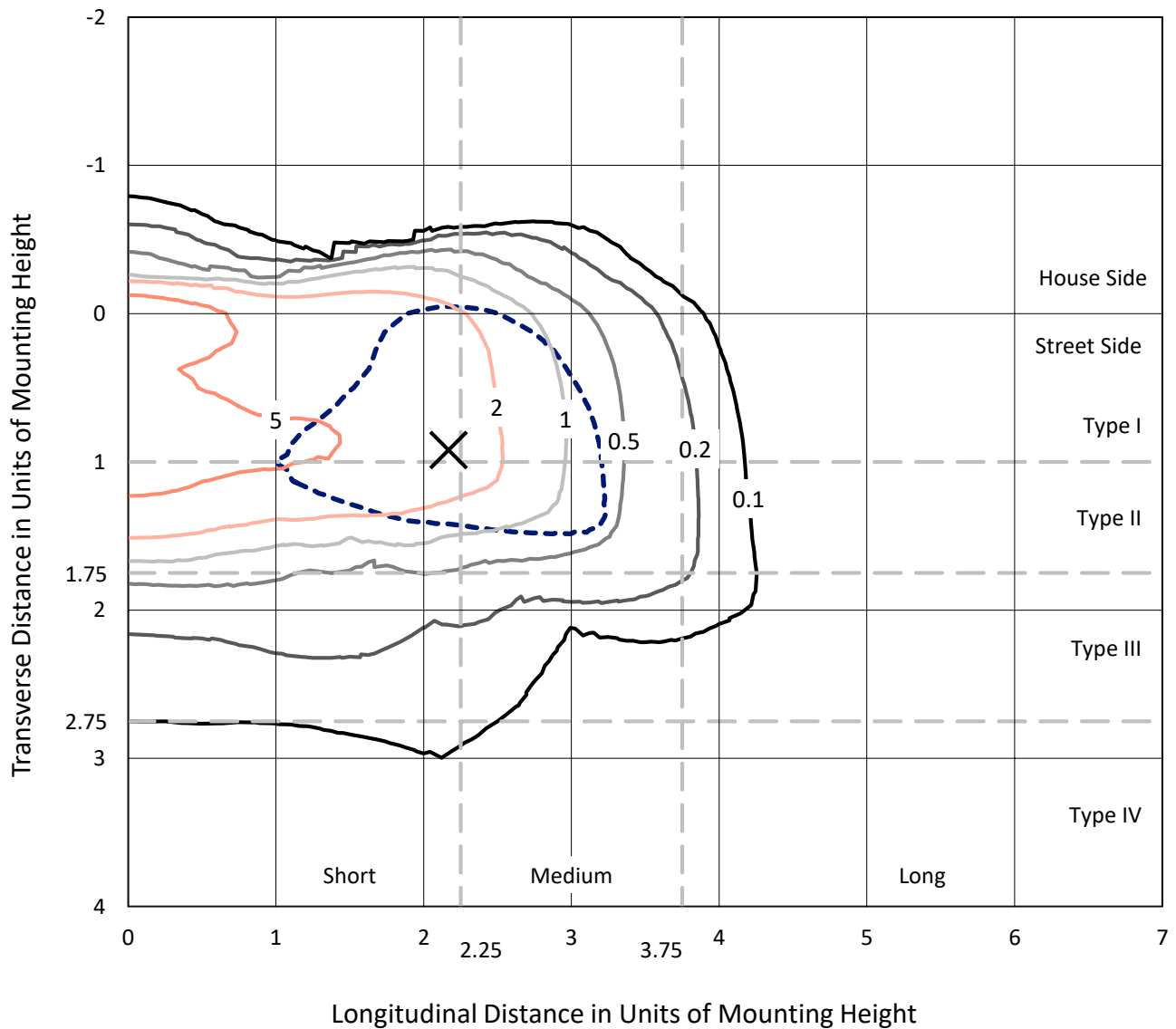


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### Iso-Footcandle Lines of Horizontal Illumination

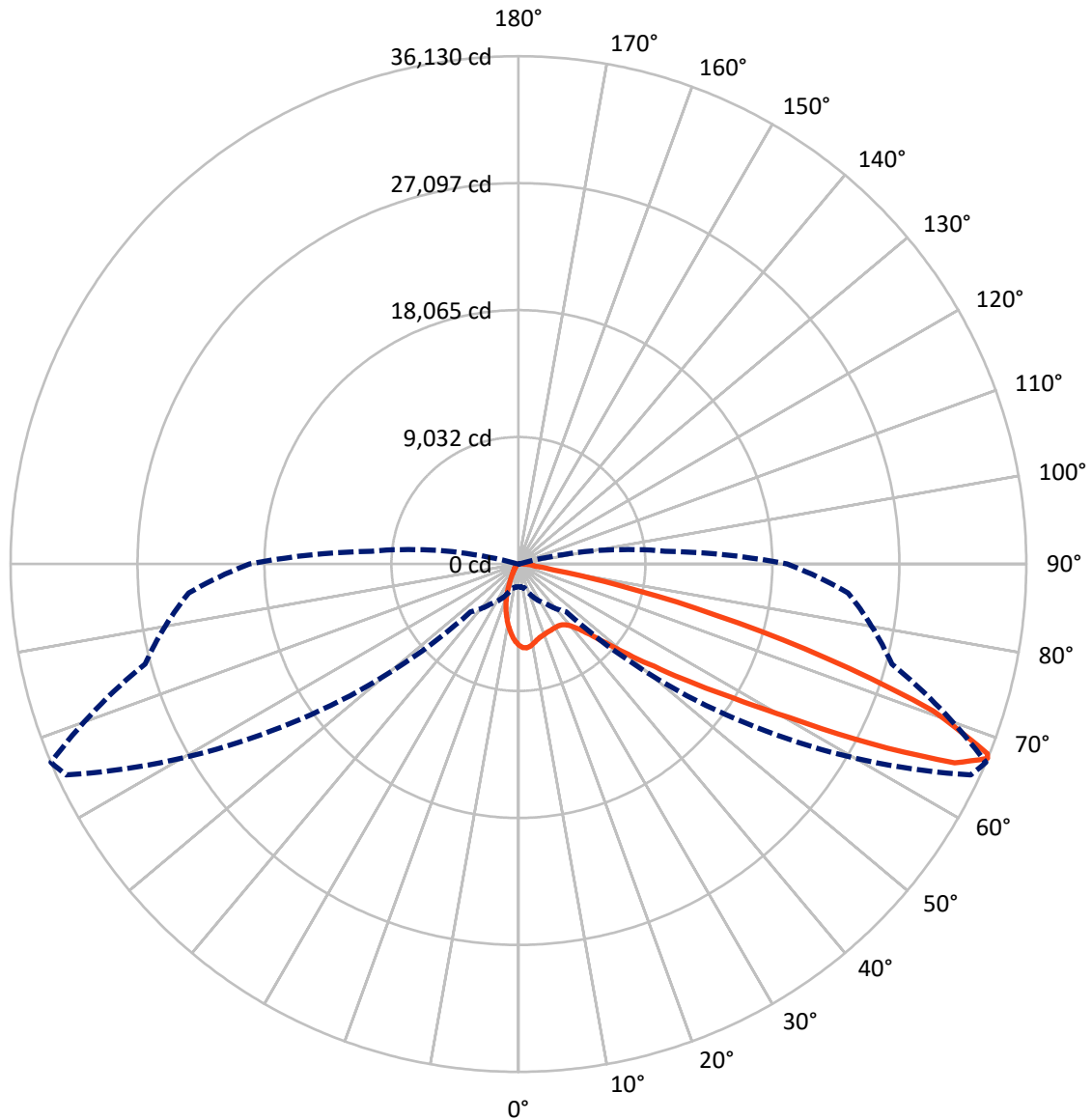
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc  
 Type II - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 67-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2724.2	0.0	2724.2
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	23512.8	0.0	23512.8
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	26237.0	0.0	26237.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	470.8	1.8
10°-20°	1002.1	3.8
20°-30°	1456.9	5.6
30°-40°	2272.9	8.7
40°-50°	4026.3	15.3
50°-60°	6371.2	24.3
60°-70°	7297.3	27.8
70°-80°	3026.9	11.5
80°-90°	312.7	1.2
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°	26237.0	100.0
0°-180°	26237.0	100.0



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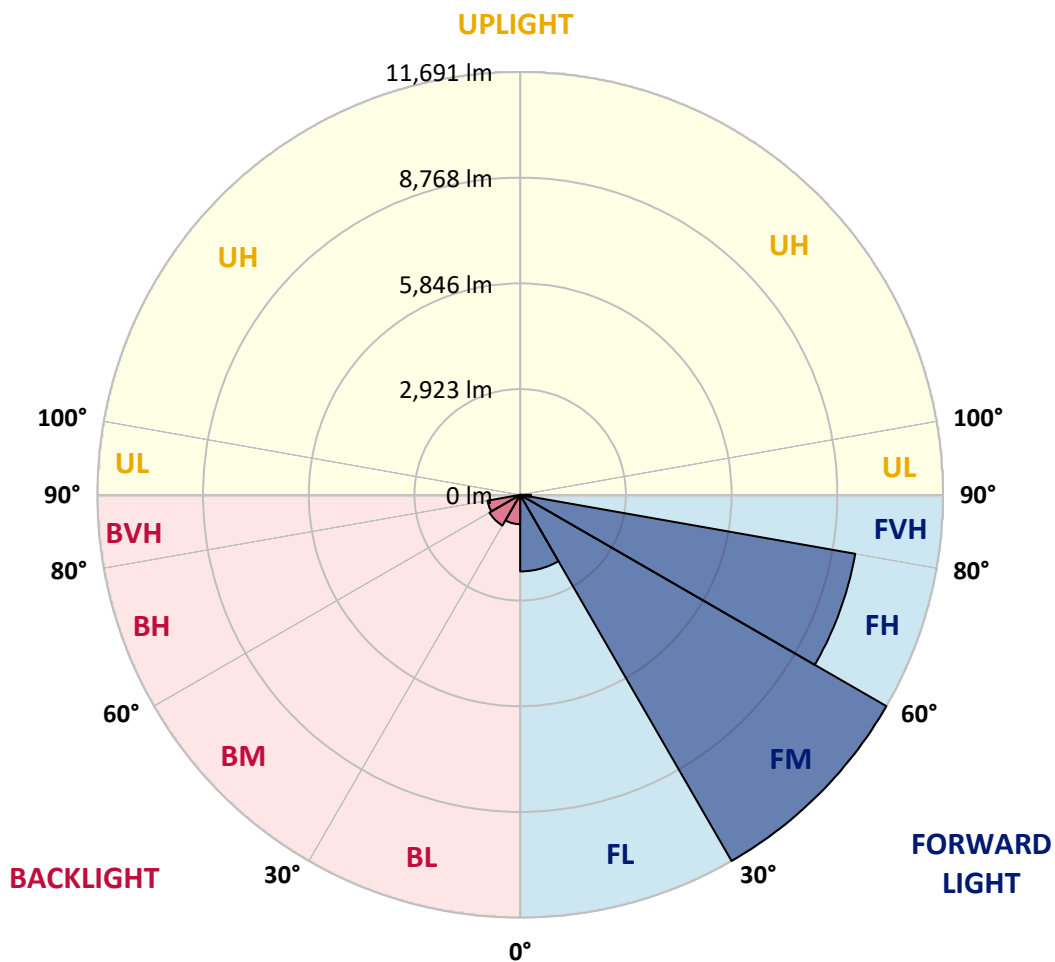
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2116.9	8.1			
FM (30°-60°)	11691.3	44.6			
FH (60°-80°)	9406.0	35.9			G4/12000
FVH (80°-90°)	298.6	1.1			G3/500
BL (0°-30°)	812.9	3.1	B2/1000		
BM (30°-60°)	979.1	3.7	B1/1000		
BH (60°-80°)	918.1	3.5	B2/1000		G2/1000
BVH (80°-90°)	14.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	5786.2	5786.2	5786.2	5786.2	5786.2	5786.2	5786.2	5786.2	5786.2	5786.2	5786.2
2.5°	5982.1	5994.4	5992.8	6002.0	6023.4	6025.0	6003.5	5962.2	5953.0	5899.5	5806.1
5°	5516.9	5552.1	5573.5	5660.7	5758.7	5876.5	5965.3	5997.4	5992.8	5954.6	5813.8
7.5°	4985.9	5021.1	5045.5	5148.1	5278.2	5480.2	5711.2	5901.0	5917.8	5959.2	5807.7
10°	4632.3	4638.5	4672.1	4770.1	4906.3	5112.9	5388.3	5720.4	5770.9	5922.4	5792.3
12.5°	4341.6	4346.2	4390.6	4496.1	4641.5	4849.7	5138.9	5523.0	5601.1	5876.5	5789.3
15°	4135.0	4151.8	4191.6	4301.8	4456.4	4663.0	4959.8	5377.6	5471.0	5859.7	5816.8
17.5°	4066.1	4084.5	4096.7	4176.3	4317.1	4519.1	4823.6	5282.7	5388.3	5868.9	5870.4
20°	4138.0	4151.8	4124.3	4144.2	4231.4	4412.0	4708.9	5201.6	5327.1	5879.6	5939.3
22.5°	4405.9	4412.0	4337.0	4249.8	4234.5	4333.9	4618.6	5137.4	5272.0	5908.7	6020.4
25°	4865.0	4854.2	4731.8	4543.6	4366.1	4320.2	4565.0	5097.6	5244.5	5939.3	6104.5
27.5°	5418.9	5434.2	5265.9	4992.0	4653.8	4412.0	4557.4	5080.7	5232.2	5960.7	6178.0
30°	6092.3	6113.7	5920.9	5576.6	5091.5	4638.5	4627.8	5077.7	5224.6	5946.9	6184.1
32.5°	6779.4	6805.4	6653.9	6298.9	5676.0	5018.0	4786.9	5111.3	5239.9	5899.5	6148.9
35°	7498.7	7535.4	7434.4	7129.9	6468.8	5565.9	5067.0	5213.9	5311.8	5894.9	6113.7
37.5°	8491.9	8525.5	8335.8	8012.9	7428.3	6300.4	5516.9	5406.7	5481.7	5968.3	6122.9
40°	9974.8	9970.2	9480.5	8986.2	8482.7	7233.9	6148.9	5755.6	5793.9	6190.2	6236.1
42.5°	11590.8	11583.2	10859.3	10107.9	9653.4	8383.2	6979.9	6358.6	6332.6	6598.8	6530.0
45°	12836.5	12835.0	12244.3	11398.0	11062.9	9702.4	8054.2	7197.2	7157.4	7263.0	7071.7
47.5°	13367.5	13376.7	13079.8	12484.5	12625.3	11486.8	9408.5	8412.3	8352.6	8309.8	8019.0
50°	12954.4	12972.7	12997.2	12880.9	13771.6	13884.8	11225.1	10124.8	10095.7	9904.4	9449.9
52.5°	11604.6	11697.9	11985.6	12354.5	14169.4	16186.4	14073.0	12251.9	12095.8	11892.3	11391.9
55°	9330.5	9433.0	9979.4	10874.6	13577.2	17698.4	18064.2	14994.3	14734.1	14126.6	13404.3
57.5°	6174.9	6334.1	7126.8	8265.4	11857.1	17941.7	22046.1	18800.3	17894.3	16230.8	15416.7
60°	3402.0	3555.0	4415.0	5446.5	8563.8	16738.9	24724.2	23755.5	22154.8	18583.0	17860.6
62.5°	2095.0	2177.7	2812.8	3772.3	5135.8	13211.5	25278.2	29982.5	28129.2	21611.5	20812.7
65°	1668.1	1703.3	2013.9	3083.6	3682.0	7858.3	23489.2	34729.6	34111.3	25278.2	23455.6
67°	1619.1	1632.9	1779.8	2647.5	3470.8	4817.5	19678.7	35502.4	36129.9	27497.2	23538.2
67.5°	1629.8	1645.1	1784.4	2526.6	3464.7	4427.3	18365.6	35197.9	35990.6	27673.2	23172.5
70°	1571.7	1619.1	2043.0	2525.1	3294.8	3678.9	10998.6	30496.7	31321.5	25712.8	19661.8
72.5°	557.0	560.1	883.0	2043.0	3582.5	3718.7	5523.0	22356.8	22967.4	19669.5	14175.6
75°	330.6	281.6	293.8	581.5	3423.4	3611.6	3186.2	14285.8	14513.8	11271.0	7178.8
77.5°	228.0	198.9	205.1	257.1	1303.9	3561.1	2531.2	7449.7	7206.4	3952.9	1528.8
80°	130.1	114.8	122.4	225.0	474.4	3322.4	2387.3	3020.9	2575.6	670.3	422.4
82.5°	68.9	58.2	70.4	185.2	330.6	2070.6	2391.9	1459.9	1156.9	226.5	287.7
85°	24.5	19.9	33.7	127.0	220.4	635.1	2217.5	1227.3	964.1	110.2	218.8
87.5°	4.6	4.6	13.8	52.0	88.8	194.4	1311.5	728.4	488.2	65.8	150.0
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°	5786.2	5786.2	5786.2	5786.2	5786.2	5786.2	5786.2	5786.2	5786.2	5786.2	5786.2
2.5°	5767.9	5702.1	5613.3	5504.6	5376.1	5262.9	5178.7	5091.5	5073.1	5042.5	5037.9
5°	5729.6	5616.4	5396.0	5143.5	4874.1	4630.8	4433.4	4257.4	4179.4	4112.0	4104.4
7.5°	5673.0	5503.1	5128.2	4721.1	4300.3	3917.7	3593.2	3363.7	3152.5	3051.5	3036.2
10°	5607.2	5363.9	4826.7	4262.0	3680.5	3140.3	2658.2	2254.2	2009.3	1864.0	1845.6
12.5°	5546.0	5227.7	4519.1	3786.1	3013.2	2290.9	1671.1	1285.5	1028.4	924.3	912.1
15°	5516.9	5117.5	4231.4	3299.4	2315.4	1458.4	913.6	707.0	622.8	598.4	596.8
17.5°	5513.8	5024.1	3949.8	2795.9	1622.2	847.8	595.3	543.3	526.4	520.3	520.3
20°	5512.3	4935.4	3668.2	2274.1	1029.9	564.7	495.8	483.6	471.3	463.7	463.7
22.5°	5529.1	4855.8	3374.4	1741.5	648.9	457.6	436.1	423.9	408.6	397.9	396.4
25°	5546.0	4794.6	3074.5	1239.6	469.8	397.9	376.5	359.6	338.2	324.4	322.9
27.5°	5549.0	4718.0	2753.1	829.4	393.3	347.4	319.8	293.8	269.3	255.6	254.0
30°	5503.1	4589.5	2396.5	560.1	347.4	301.5	264.7	237.2	214.2	203.5	203.5
32.5°	5412.8	4430.3	2004.7	422.4	309.1	258.6	218.8	192.8	177.5	172.9	171.4
35°	5331.7	4258.9	1602.3	358.1	277.0	218.8	179.1	162.2	153.0	151.5	150.0
37.5°	5284.3	4121.2	1224.3	324.4	246.4	183.6	151.5	139.3	134.7	131.6	133.1
40°	5321.0	4006.4	904.4	296.9	215.8	153.0	128.5	122.4	117.8	116.3	116.3
42.5°	5481.7	3986.5	671.8	272.4	186.7	127.0	111.7	107.1	104.1	102.5	104.1
45°	5904.1	4109.0	521.8	249.4	157.6	107.1	94.9	93.4	91.8	91.8	91.8
47.5°	6539.2	4361.5	434.6	223.4	131.6	91.8	82.6	81.1	79.6	81.1	81.1
50°	7615.0	4823.6	388.7	197.4	108.7	78.0	70.4	70.4	70.4	70.4	71.9
52.5°	9250.9	5732.7	358.1	171.4	88.8	65.8	59.7	59.7	61.2	61.2	62.7
55°	11073.6	6938.6	330.6	145.4	75.0	55.1	49.0	50.5	52.0	53.6	53.6
57.5°	13050.8	8274.6	307.6	119.4	64.3	44.4	41.3	42.8	44.4	47.4	47.4
60°	15436.6	9720.7	273.9	93.4	53.6	35.2	32.1	35.2	39.8	42.8	44.4
62.5°	18056.5	11119.5	231.1	73.5	44.4	27.5	26.0	32.1	38.3	41.3	42.8
65°	19847.0	11558.7	177.5	59.7	33.7	19.9	21.4	29.1	36.7	41.3	41.3
67°	19121.6	10479.8	145.4	50.5	27.5	15.3	19.9	29.1	36.7	39.8	41.3
67.5°	18618.2	10057.4	139.3	49.0	26.0	15.3	19.9	29.1	36.7	41.3	41.3
70°	15148.9	7555.3	116.3	36.7	21.4	13.8	16.8	27.5	35.2	39.8	39.8
72.5°	10525.7	4658.4	104.1	26.0	18.4	12.2	15.3	26.0	33.7	38.3	39.8
75°	5004.2	1686.4	88.8	19.9	16.8	10.7	13.8	26.0	33.7	38.3	38.3
77.5°	1020.7	391.8	71.9	16.8	13.8	10.7	12.2	24.5	32.1	36.7	36.7
80°	335.1	151.5	53.6	15.3	13.8	10.7	12.2	23.0	32.1	35.2	36.7
82.5°	241.8	76.5	35.2	15.3	13.8	10.7	10.7	23.0	30.6	35.2	35.2
85°	185.2	53.6	23.0	15.3	13.8	10.7	10.7	21.4	29.1	33.7	33.7
87.5°	122.4	21.4	18.4	15.3	13.8	10.7	10.7	21.4	27.5	32.1	33.7
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)