

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: P191862

Luminaire Tested: **GLEON-AF-04-LED-E1-SL2-7050-1200-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191862  
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-04-LED-E1-SL2-7050-1200-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 5000K, 1200mA 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: 21817 lumens  
Efficiency: N/A  
Efficacy: 84.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G4

Input Watts (W): 258  
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

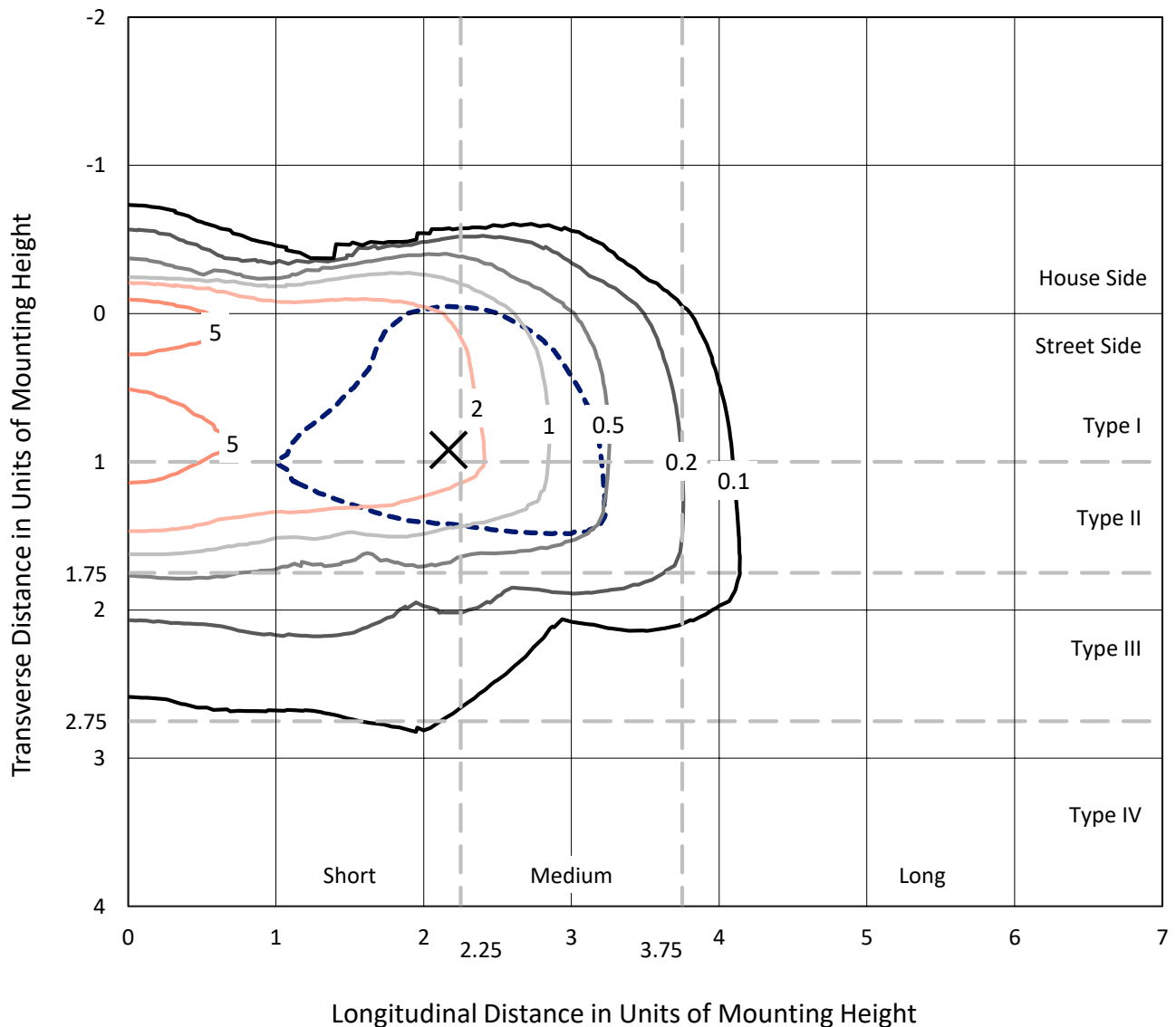


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

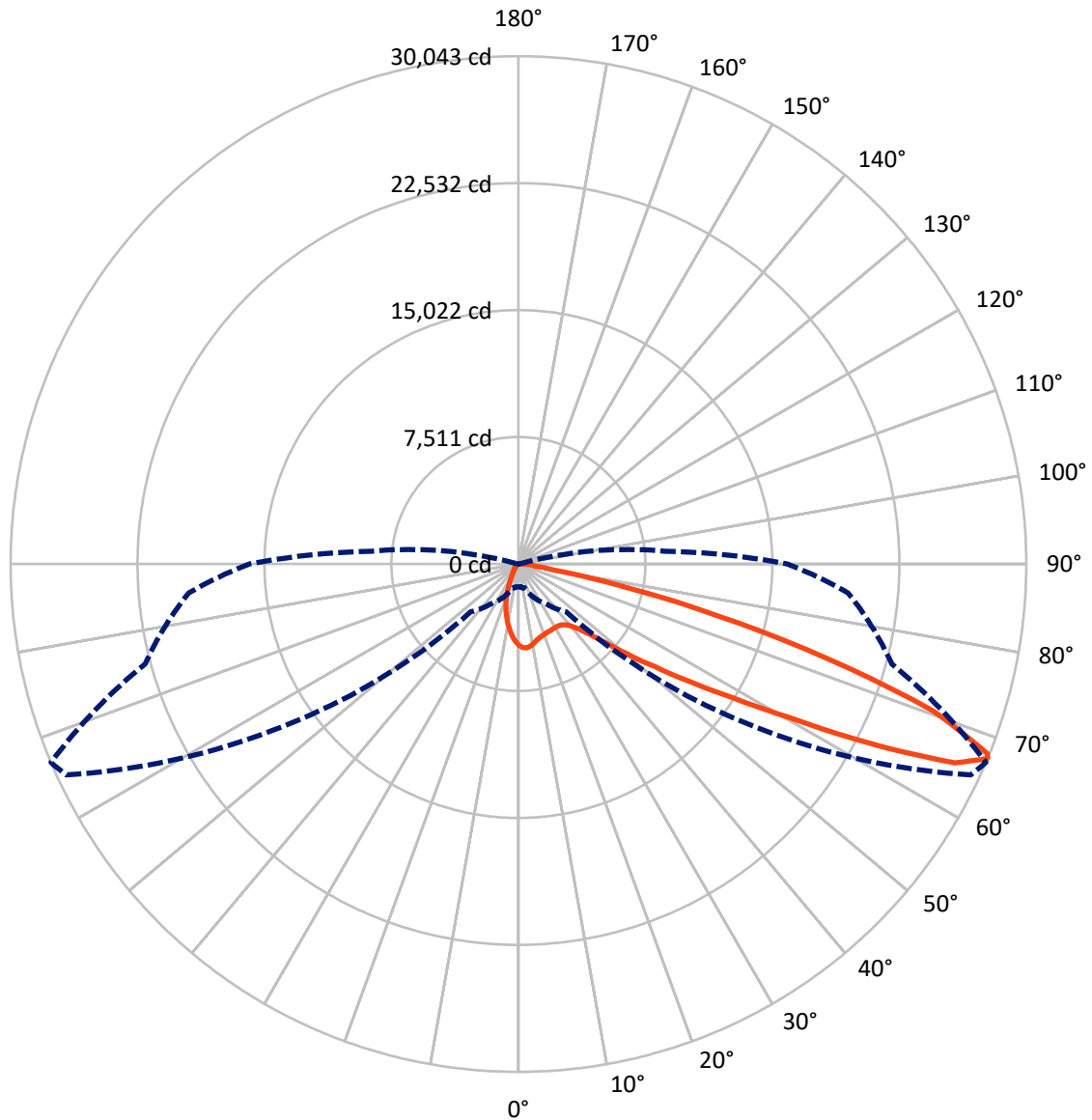


Based on 25 foot mounting height. Maximum calculated value = 7.7 fc  
 Type II - Short - Semi-Cutoff

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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	2265.3	0.0	2265.3
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	19551.7	0.0	19551.7
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	21817.0	0.0	21817.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	391.5	1.8
10°-20°	833.3	3.8
20°-30°	1211.5	5.6
30°-40°	1890.0	8.7
40°-50°	3348.0	15.3
50°-60°	5297.9	24.3
60°-70°	6068.0	27.8
70°-80°	2517.0	11.5
80°-90°	260.0	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°	21817.0	100.0
0°-180°	21817.0	100.0



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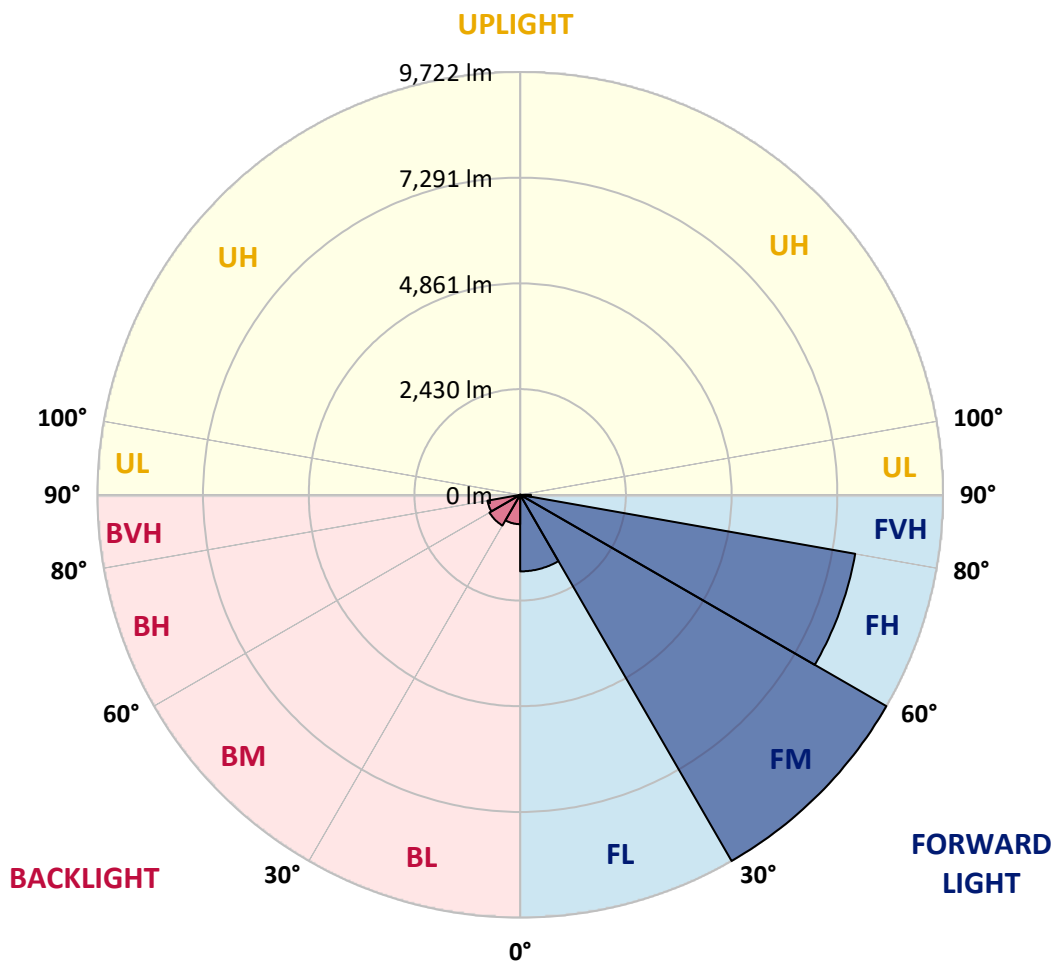
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1760.3	8.1			
FM (30°-60°)	9721.7	44.6			
FH (60°-80°)	7821.5	35.9			G4/12000
FVH (80°-90°)	248.3	1.1			G3/500
BL (0°-30°)	676.0	3.1	B2/1000		
BM (30°-60°)	814.1	3.7	B1/1000		
BH (60°-80°)	763.5	3.5	B2/1000		G2/1000
BVH (80°-90°)	11.7	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°	4811.5	4811.5	4811.5	4811.5	4811.5	4811.5	4811.5	4811.5	4811.5	4811.5	4811.5
2.5°	4974.3	4984.5	4983.2	4990.9	5008.7	5010.0	4992.2	4957.8	4950.2	4905.6	4828.0
5°	4587.5	4616.8	4634.6	4707.1	4788.5	4886.5	4960.3	4987.1	4983.2	4951.4	4834.4
7.5°	4145.9	4175.2	4195.5	4280.8	4389.0	4556.9	4749.1	4906.9	4920.9	4955.3	4829.3
10°	3852.0	3857.1	3885.0	3966.5	4079.7	4251.5	4480.6	4756.7	4798.7	4924.7	4816.5
12.5°	3610.2	3614.0	3650.9	3738.7	3859.6	4032.7	4273.2	4592.6	4657.5	4886.5	4814.0
15°	3438.4	3452.4	3485.5	3577.1	3705.6	3877.4	4124.3	4471.7	4549.3	4872.5	4836.9
17.5°	3381.1	3396.4	3406.6	3472.7	3589.8	3757.8	4011.0	4392.8	4480.6	4880.2	4881.4
20°	3440.9	3452.4	3429.5	3446.0	3518.6	3668.7	3915.6	4325.3	4429.7	4889.1	4938.7
22.5°	3663.6	3668.7	3606.4	3533.8	3521.1	3603.8	3840.5	4271.9	4383.9	4913.3	5006.2
25°	4045.4	4036.5	3934.7	3778.2	3630.5	3592.4	3796.0	4238.8	4361.0	4938.7	5076.1
27.5°	4506.0	4518.8	4378.8	4151.0	3869.8	3668.7	3789.6	4224.8	4350.8	4956.5	5137.2
30°	5066.0	5083.8	4923.4	4637.1	4233.7	3857.1	3848.1	4222.3	4344.4	4945.1	5142.3
32.5°	5637.3	5659.0	5533.0	5237.8	4719.8	4172.6	3980.5	4250.3	4357.2	4905.6	5113.0
35°	6235.4	6266.0	6182.0	5928.7	5379.0	4628.2	4213.4	4335.5	4417.0	4901.8	5083.8
37.5°	7061.3	7089.3	6931.5	6663.0	6176.9	5239.0	4587.5	4495.9	4558.2	4962.9	5091.4
40°	8294.4	8290.6	7883.4	7472.3	7053.7	6015.3	5113.0	4786.0	4817.8	5147.4	5185.6
42.5°	9638.2	9631.8	9029.9	8405.1	8027.1	6970.9	5804.0	5287.4	5265.7	5487.2	5429.9
45°	10674.0	10672.7	10181.6	9477.8	9199.2	8067.9	6697.4	5984.7	5951.6	6039.5	5880.4
47.5°	11115.6	11123.2	10876.4	10381.3	10498.4	9551.6	7823.5	6995.1	6945.5	6909.9	6668.1
50°	10772.0	10787.3	10807.6	10710.9	11451.5	11545.7	9334.0	8419.1	8394.9	8235.8	7857.9
52.5°	9649.6	9727.3	9966.5	10273.2	11782.4	13459.6	11702.2	10187.9	10058.1	9888.9	9472.7
55°	7758.6	7843.9	8298.2	9042.6	11289.9	14716.9	15021.0	12468.3	12252.0	11746.8	11146.1
57.5°	5134.7	5267.0	5926.2	6873.0	9859.6	14919.2	18332.1	15633.1	14879.7	13496.5	12819.5
60°	2828.8	2956.1	3671.3	4529.0	7121.1	13919.0	20559.1	19753.6	18422.5	15452.4	14851.8
62.5°	1742.1	1810.8	2338.9	3136.8	4270.6	10985.8	21019.7	24931.5	23390.5	17970.7	17306.5
65°	1387.1	1416.3	1674.7	2564.2	3061.7	6534.5	19532.1	28878.9	28364.8	21019.7	19504.1
67°	1346.3	1357.8	1480.0	2201.5	2886.1	4005.9	16363.5	29521.5	30043.3	22864.9	19572.9
67.5°	1355.2	1368.0	1483.8	2101.0	2881.0	3681.4	15271.7	29268.3	29927.5	23011.2	19268.7
70°	1306.9	1346.3	1698.8	2099.7	2739.8	3059.2	9145.7	25359.1	26045.0	21381.1	16349.5
72.5°	463.2	465.7	734.3	1698.8	2979.0	3092.3	4592.6	18590.5	19098.2	16355.9	11787.5
75°	274.9	234.1	244.3	483.6	2846.7	3003.2	2649.4	11879.1	12068.7	9372.2	5969.5
77.5°	189.6	165.4	170.5	213.8	1084.2	2961.2	2104.8	6194.7	5992.4	3287.0	1271.3
80°	108.2	95.4	101.8	187.1	394.5	2762.7	1985.2	2512.0	2141.7	557.4	351.2
82.5°	57.3	48.4	58.5	154.0	274.9	1721.7	1989.0	1214.0	962.0	188.3	239.2
85°	20.4	16.5	28.0	105.6	183.2	528.1	1843.9	1020.6	801.7	91.6	182.0
87.5°	3.8	3.8	11.5	43.3	73.8	161.6	1090.6	605.7	405.9	54.7	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°	4811.5	4811.5	4811.5	4811.5	4811.5	4811.5	4811.5	4811.5	4811.5	4811.5	4811.5
2.5°	4796.2	4741.5	4667.7	4577.3	4470.4	4376.2	4306.3	4233.7	4218.5	4193.0	4189.2
5°	4764.4	4670.2	4487.0	4277.0	4053.0	3850.7	3686.5	3540.2	3475.3	3419.3	3412.9
7.5°	4717.3	4576.0	4264.3	3925.8	3575.8	3257.7	2987.9	2797.0	2621.4	2537.4	2524.7
10°	4662.6	4460.2	4013.6	3544.0	3060.4	2611.2	2210.4	1874.4	1670.8	1549.9	1534.7
12.5°	4611.7	4347.0	3757.8	3148.3	2505.6	1905.0	1389.6	1068.9	855.1	768.6	758.4
15°	4587.5	4255.4	3518.6	2743.6	1925.3	1212.7	759.7	587.9	517.9	497.6	496.3
17.5°	4584.9	4177.7	3284.4	2324.9	1348.9	705.0	495.0	451.7	437.8	432.7	432.7
20°	4583.7	4103.9	3050.3	1891.0	856.4	469.6	412.3	402.1	391.9	385.6	385.6
22.5°	4597.7	4037.8	2805.9	1448.1	539.6	380.5	362.7	352.5	339.8	330.9	329.6
25°	4611.7	3986.9	2556.5	1030.8	390.7	330.9	313.0	299.0	281.2	269.8	268.5
27.5°	4614.2	3923.2	2289.3	689.7	327.0	288.9	266.0	244.3	224.0	212.5	211.2
30°	4576.0	3816.3	1992.8	465.7	288.9	250.7	220.1	197.2	178.2	169.2	169.2
32.5°	4501.0	3684.0	1667.0	351.2	257.1	215.1	182.0	160.3	147.6	143.8	142.5
35°	4433.5	3541.5	1332.3	297.8	230.3	182.0	148.9	134.9	127.3	126.0	124.7
37.5°	4394.1	3426.9	1018.0	269.8	204.9	152.7	126.0	115.8	112.0	109.4	110.7
40°	4424.6	3331.5	752.1	246.9	179.4	127.3	106.9	101.8	98.0	96.7	96.7
42.5°	4558.2	3315.0	558.6	226.5	155.2	105.6	92.9	89.1	86.5	85.3	86.5
45°	4909.4	3416.8	433.9	207.4	131.1	89.1	78.9	77.6	76.4	76.4	76.4
47.5°	5437.5	3626.7	361.4	185.8	109.4	76.4	68.7	67.4	66.2	67.4	67.4
50°	6332.1	4011.0	323.2	164.2	90.3	64.9	58.5	58.5	58.5	58.5	59.8
52.5°	7692.5	4766.9	297.8	142.5	73.8	54.7	49.6	49.6	50.9	50.9	52.2
55°	9208.1	5769.7	274.9	120.9	62.4	45.8	40.7	42.0	43.3	44.5	44.5
57.5°	10852.2	6880.6	255.8	99.3	53.4	36.9	34.4	35.6	36.9	39.4	39.4
60°	12836.1	8083.1	227.8	77.6	44.5	29.3	26.7	29.3	33.1	35.6	36.9
62.5°	15014.6	9246.2	192.2	61.1	36.9	22.9	21.6	26.7	31.8	34.4	35.6
65°	16503.5	9611.5	147.6	49.6	28.0	16.5	17.8	24.2	30.5	34.4	34.4
67°	15900.3	8714.3	120.9	42.0	22.9	12.7	16.5	24.2	30.5	33.1	34.4
67.5°	15481.7	8363.1	115.8	40.7	21.6	12.7	16.5	24.2	30.5	34.4	34.4
70°	12596.8	6282.5	96.7	30.5	17.8	11.5	14.0	22.9	29.3	33.1	33.1
72.5°	8752.5	3873.6	86.5	21.6	15.3	10.2	12.7	21.6	28.0	31.8	33.1
75°	4161.2	1402.3	73.8	16.5	14.0	8.9	11.5	21.6	28.0	31.8	31.8
77.5°	848.8	325.8	59.8	14.0	11.5	8.9	10.2	20.4	26.7	30.5	30.5
80°	278.7	126.0	44.5	12.7	11.5	8.9	10.2	19.1	26.7	29.3	30.5
82.5°	201.1	63.6	29.3	12.7	11.5	8.9	8.9	19.1	25.5	29.3	29.3
85°	154.0	44.5	19.1	12.7	11.5	8.9	8.9	17.8	24.2	28.0	28.0
87.5°	101.8	17.8	15.3	12.7	11.5	8.9	8.9	17.8	22.9	26.7	28.0
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)