

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: P383380

Luminaire Tested: **GLEON-SA6D-735-U-T4W-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383380  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA6D-735-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31333.5 lumens  
Efficiency: N/A  
Efficacy: 82.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5

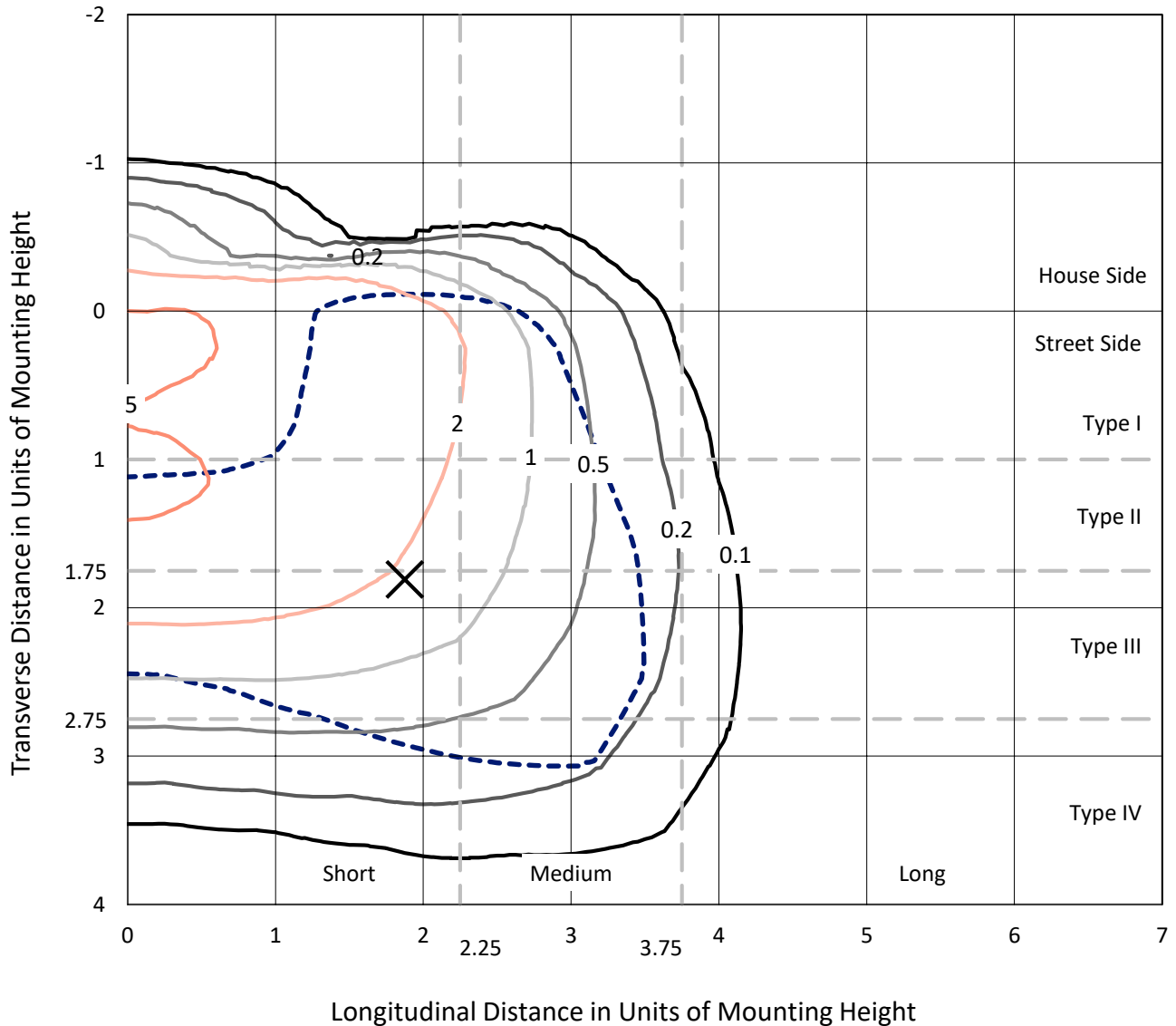
Input Watts (W): 382  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

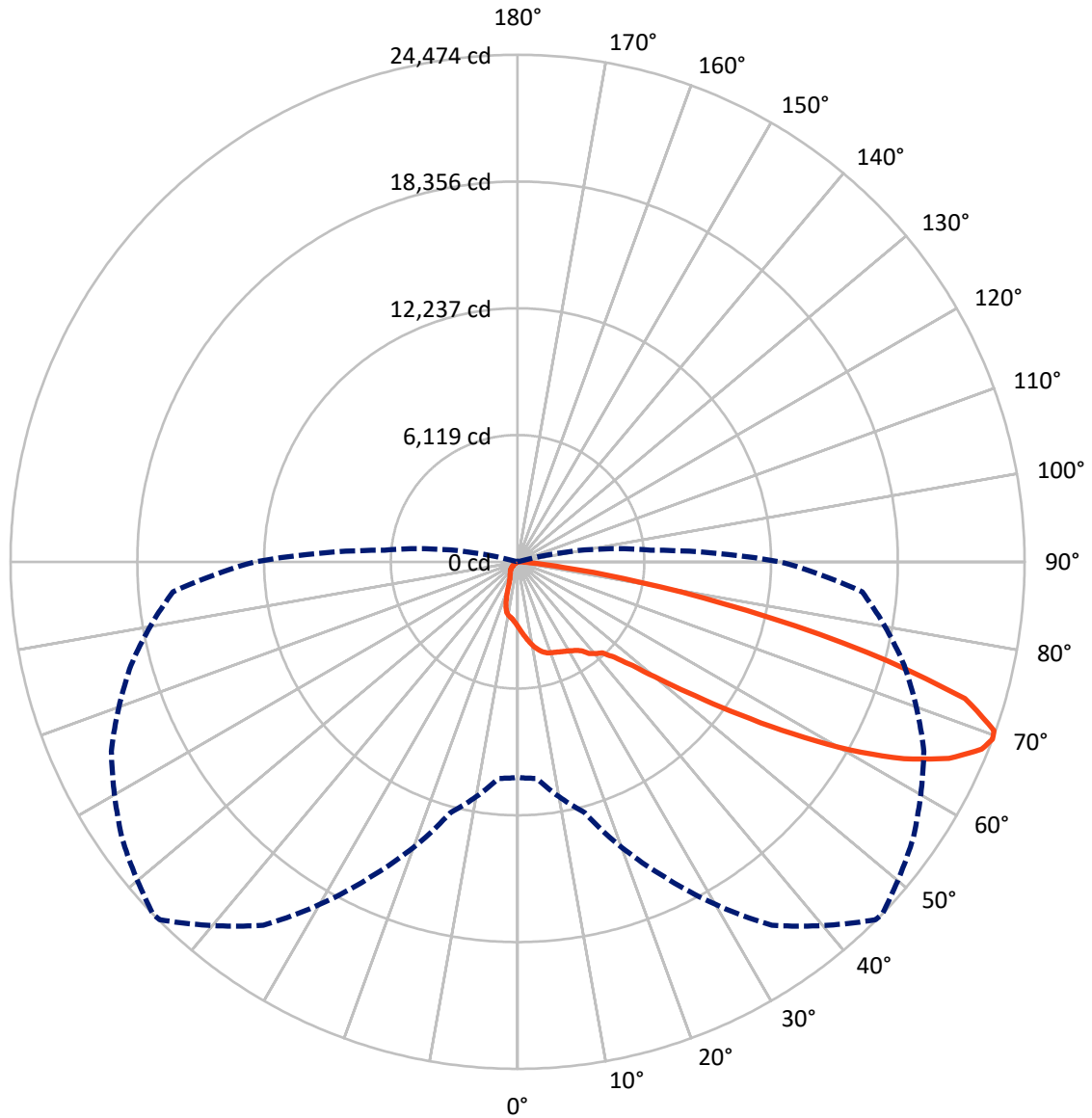
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3215.7	0.0	3215.7
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	28117.9	0.0	28117.9
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	31333.5	0.0	31333.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	312.5	1.0
10°-20°	948.0	3.0
20°-30°	1490.9	4.8
30°-40°	2138.0	6.8
40°-50°	3695.2	11.8
50°-60°	7300.3	23.3
60°-70°	10202.8	32.6
70°-80°	4929.0	15.7
80°-90°	316.8	1.0
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°	31333.5	100.0
0°-180°	31333.5	100.0



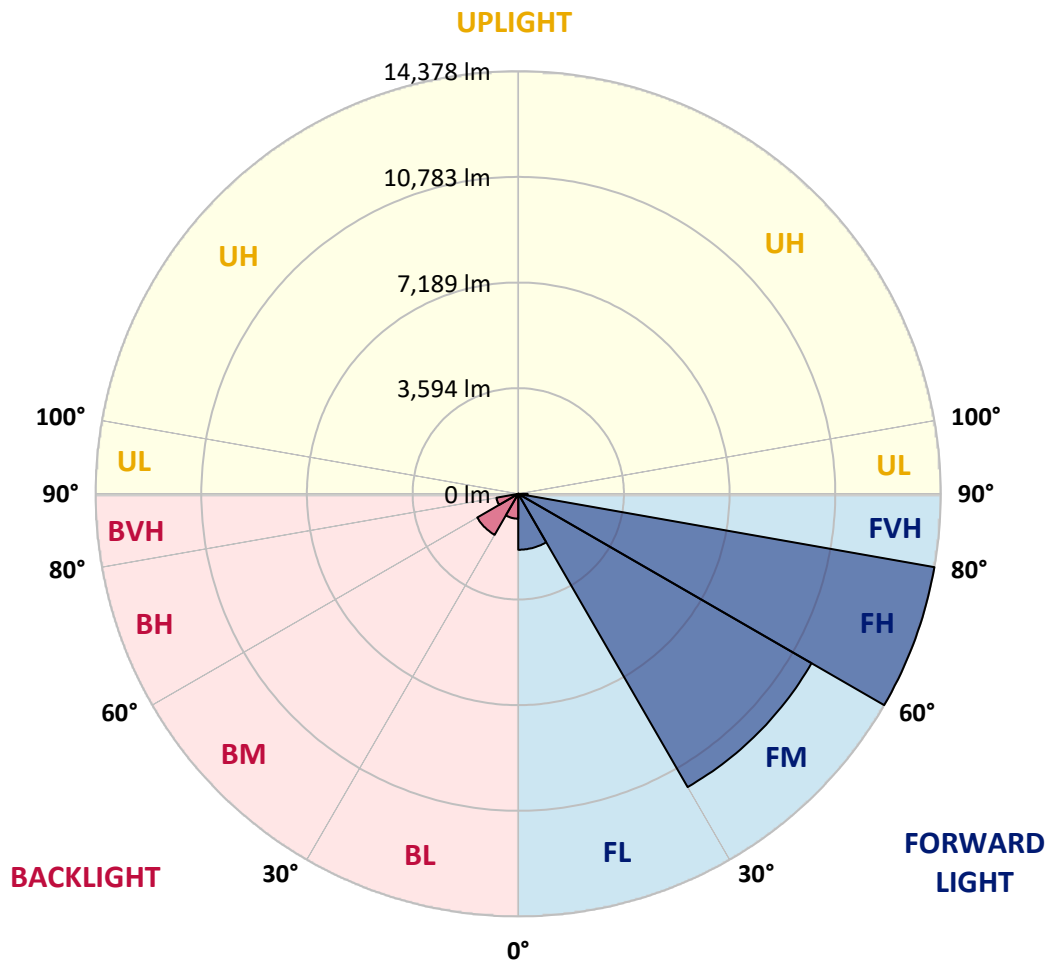
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1903.9	6.1			
FM (30°-60°)	11522.0	36.8			
FH (60°-80°)	14377.8	45.9			G5
FVH (80°-90°)	314.1	1.0			G3/500
BL (0°-30°)	847.5	2.7	B2/1000		
BM (30°-60°)	1611.4	5.1	B2/2500		
BH (60°-80°)	754.0	2.4	B2/1000		G2/1000
BVH (80°-90°)	2.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3139.5	3139.5	3139.5	3139.5	3139.5	3139.5	3139.5	3139.5	3139.5	3139.5	3139.5
2.5°	3487.7	3483.2	3462.7	3453.9	3404.0	3374.5	3362.8	3326.1	3273.2	3220.3	3161.6
5°	3884.4	3882.9	3844.7	3808.0	3713.9	3625.8	3609.7	3524.4	3405.5	3293.8	3182.1
7.5°	4289.8	4270.7	4232.5	4162.0	4025.4	3884.4	3871.1	3750.7	3581.7	3420.1	3260.0
10°	4633.6	4621.9	4571.8	4464.6	4304.5	4144.4	4128.2	3979.9	3788.9	3590.6	3386.3
12.5°	4901.0	4892.1	4826.1	4692.4	4521.9	4355.9	4333.9	4201.7	3997.5	3775.7	3534.7
15°	5064.1	5059.6	4978.8	4836.3	4668.8	4524.9	4505.8	4389.7	4200.2	3968.1	3696.3
17.5°	5102.3	5103.7	5020.0	4876.0	4737.9	4635.1	4620.4	4532.3	4373.5	4142.9	3857.9
20°	5017.0	5034.6	4959.7	4834.8	4749.7	4695.3	4683.5	4630.6	4497.0	4279.5	3987.2
22.5°	4896.6	4905.3	4853.9	4770.3	4735.0	4745.2	4739.3	4710.0	4596.9	4397.1	4115.0
25°	4823.1	4823.1	4792.3	4721.7	4745.2	4808.5	4809.9	4804.0	4714.4	4541.0	4270.7
27.5°	4820.2	4811.4	4776.1	4723.2	4787.9	4884.8	4890.7	4930.4	4874.5	4715.9	4464.6
30°	4937.7	4927.4	4852.5	4783.4	4865.8	4970.0	4984.7	5071.4	5043.5	4905.3	4680.6
32.5°	5212.4	5175.7	5009.7	4896.6	4958.3	5083.2	5102.3	5240.3	5284.4	5139.0	4889.2
35°	5588.5	5472.5	5233.0	5111.0	5116.9	5247.7	5265.3	5468.1	5598.8	5353.4	5050.9
37.5°	6107.1	6049.8	5660.5	5334.3	5360.8	5559.1	5610.5	5830.9	5794.2	5471.0	5234.5
40°	7244.2	7154.6	6740.3	5960.2	5594.4	5811.8	5827.9	5945.5	5948.5	5736.9	5616.4
42.5°	8792.7	8755.9	8319.7	7095.9	6054.2	5980.8	6010.2	6208.5	6430.3	6298.1	6292.2
45°	10507.1	10488.0	10025.2	8603.1	6984.2	6534.6	6571.3	6837.3	7261.9	7291.2	7477.8
47.5°	11886.6	11877.8	11611.9	10285.3	8407.8	7473.4	7485.2	7767.2	8513.5	8882.3	9180.5
50°	13144.2	13186.8	12976.7	12105.6	10347.0	8944.0	8916.0	9104.1	10302.9	10906.7	11276.9
52.5°	14892.5	14952.6	14363.5	13803.9	12381.8	10768.6	10746.6	10943.4	12453.7	12906.2	12972.3
55°	16436.5	16333.7	15867.9	15706.4	14863.0	13022.3	13016.4	13189.7	14534.0	14726.5	14848.4
57.5°	17118.1	17078.5	17303.2	17673.5	17462.0	15685.8	15672.5	15540.4	16395.3	16415.9	16790.5
60°	17548.6	17597.1	18286.1	19427.6	19955.1	18552.0	18466.8	17660.3	18173.0	18127.5	18528.5
62.5°	17225.4	17320.9	18560.8	20463.3	21820.8	21053.9	20933.5	19602.5	19692.1	19534.8	19908.0
65°	15509.4	15657.8	17689.6	20268.0	22746.3	23009.3	22887.4	21316.9	20898.2	20639.6	20432.5
67.5°	12593.3	12681.4	14802.9	18568.2	22329.1	24175.8	24150.8	22819.7	21809.0	20453.1	18845.9
69°	10407.2	10493.9	12535.9	16778.8	21410.9	24425.6	24474.0	23301.6	21635.7	19318.9	16698.0
70°	8814.7	8907.3	10809.8	15245.1	20345.8	24309.5	24396.1	23256.1	21139.1	18005.5	14813.1
72.5°	4623.3	4702.6	6655.1	10502.7	16586.3	22321.7	22584.7	21290.4	17918.8	13076.6	8758.9
75°	1452.9	1498.5	2598.8	5490.1	11356.3	17356.1	17416.4	16700.9	12724.0	7192.8	3647.8
77.5°	553.9	540.7	865.3	2022.9	5741.3	10928.7	11297.5	10436.6	6677.1	2543.0	841.8
80°	298.2	299.7	449.6	837.4	2456.4	5616.4	5927.9	5058.2	2372.7	793.3	193.9
82.5°	129.3	135.2	252.7	443.7	1128.3	2071.5	2227.1	1854.1	906.5	533.3	72.0
85°	27.9	30.8	121.9	240.9	459.8	581.8	609.7	600.8	577.4	414.3	27.9
87.5°	0.0	0.0	54.4	86.6	116.1	132.2	116.1	151.3	318.8	279.1	14.7
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°	3139.5	3139.5	3139.5	3139.5	3139.5	3139.5	3139.5	3139.5	3139.5	3139.5	3139.5
2.5°	3142.5	3116.0	3070.5	3020.5	2985.2	2948.5	2919.1	2905.9	2891.2	2880.9	2894.1
5°	3136.5	3085.1	2997.0	2911.8	2850.1	2800.1	2759.0	2742.8	2726.6	2714.9	2713.5
7.5°	3187.9	3116.0	2980.9	2855.9	2760.5	2692.9	2637.0	2613.5	2594.5	2585.6	2578.3
10°	3286.4	3193.9	3013.2	2850.1	2726.6	2612.1	2491.6	2399.1	2338.8	2310.9	2300.6
12.5°	3414.2	3298.1	3074.9	2880.9	2701.7	2481.4	2225.7	2005.3	1862.8	1815.9	1787.9
15°	3564.1	3420.1	3155.6	2920.6	2610.7	2208.0	1774.7	1486.7	1354.6	1328.1	1298.7
17.5°	3708.0	3549.4	3252.6	2927.9	2410.8	1764.4	1300.2	1104.8	1053.4	1071.0	1075.4
20°	3834.4	3677.2	3348.1	2863.3	2047.9	1323.6	1006.4	957.9	977.0	1010.7	1016.6
22.5°	3962.2	3800.6	3436.3	2692.9	1583.7	1004.9	906.5	918.2	937.3	971.0	977.0
25°	4117.9	3950.4	3518.5	2380.0	1188.6	855.1	860.9	878.5	897.6	928.5	931.5
27.5°	4297.1	4140.0	3572.9	1973.0	881.4	785.9	805.0	831.5	850.6	880.0	885.9
30°	4535.1	4389.7	3590.6	1551.4	739.0	724.3	733.1	765.5	793.3	819.8	824.1
32.5°	4758.4	4636.5	3531.8	1170.9	684.6	667.0	667.0	686.1	718.4	743.4	749.2
35°	4964.1	4884.8	3343.7	856.5	643.5	614.1	599.4	599.4	619.9	640.5	646.4
37.5°	5235.9	5233.0	3039.6	683.1	603.8	570.0	539.2	515.7	508.3	512.7	515.7
40°	5701.6	5706.0	2643.0	612.6	570.0	524.5	477.4	434.8	395.2	381.9	380.5
42.5°	6428.9	6362.7	2227.1	578.9	540.7	477.4	406.9	349.6	287.9	268.8	267.4
45°	7583.5	7191.4	1786.4	547.9	509.7	424.6	336.4	258.6	208.6	193.9	193.9
47.5°	9265.7	8280.0	1383.9	514.2	468.7	364.3	254.1	186.6	152.8	145.4	146.9
50°	11005.1	9346.5	1060.7	471.5	418.7	301.2	188.1	135.2	116.1	116.1	117.6
52.5°	12547.8	10128.1	827.1	426.1	357.0	236.5	142.5	105.7	97.0	95.5	97.0
55°	13991.8	10632.0	633.2	373.2	283.6	176.2	108.7	86.6	80.8	77.9	76.4
57.5°	15384.6	10881.8	474.5	301.2	205.7	127.8	86.6	73.5	67.5	63.2	61.7
60°	16311.6	10679.0	326.1	221.8	142.5	92.6	72.0	63.2	55.8	51.4	49.9
62.5°	16834.6	10125.2	210.1	160.1	101.4	69.0	57.3	52.9	42.6	38.2	38.2
65°	16623.1	9211.3	146.9	114.6	73.5	51.4	42.6	42.6	30.8	25.0	23.5
67.5°	14730.8	7781.9	111.7	85.2	52.9	38.2	32.3	36.7	19.1	11.7	11.7
69°	12674.1	6449.4	95.5	70.5	44.1	30.8	27.9	33.8	13.2	8.8	7.4
70°	11015.5	5563.6	86.6	61.7	36.7	26.5	25.0	32.3	13.2	7.4	5.9
72.5°	6590.4	3102.8	66.1	44.1	23.5	20.6	20.6	36.7	13.2	7.4	5.9
75°	2663.5	1093.0	48.4	30.8	17.6	17.6	25.0	47.0	11.7	5.9	4.4
77.5°	603.8	239.5	27.9	19.1	11.7	17.6	29.3	36.7	7.4	3.0	0.0
80°	146.9	58.8	17.6	11.7	7.4	13.2	22.1	20.6	1.5	0.0	0.0
82.5°	48.4	20.6	7.4	5.9	1.5	4.4	10.2	5.9	0.0	0.0	0.0
85°	20.6	11.7	3.0	1.5	0.0	0.0	1.5	0.0	0.0	0.0	0.0
87.5°	13.2	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)