

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P643220

Luminaire Tested: GWS-SA6E-740-U-T2-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643220  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-22)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SAGE-740-U-T2-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (96) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

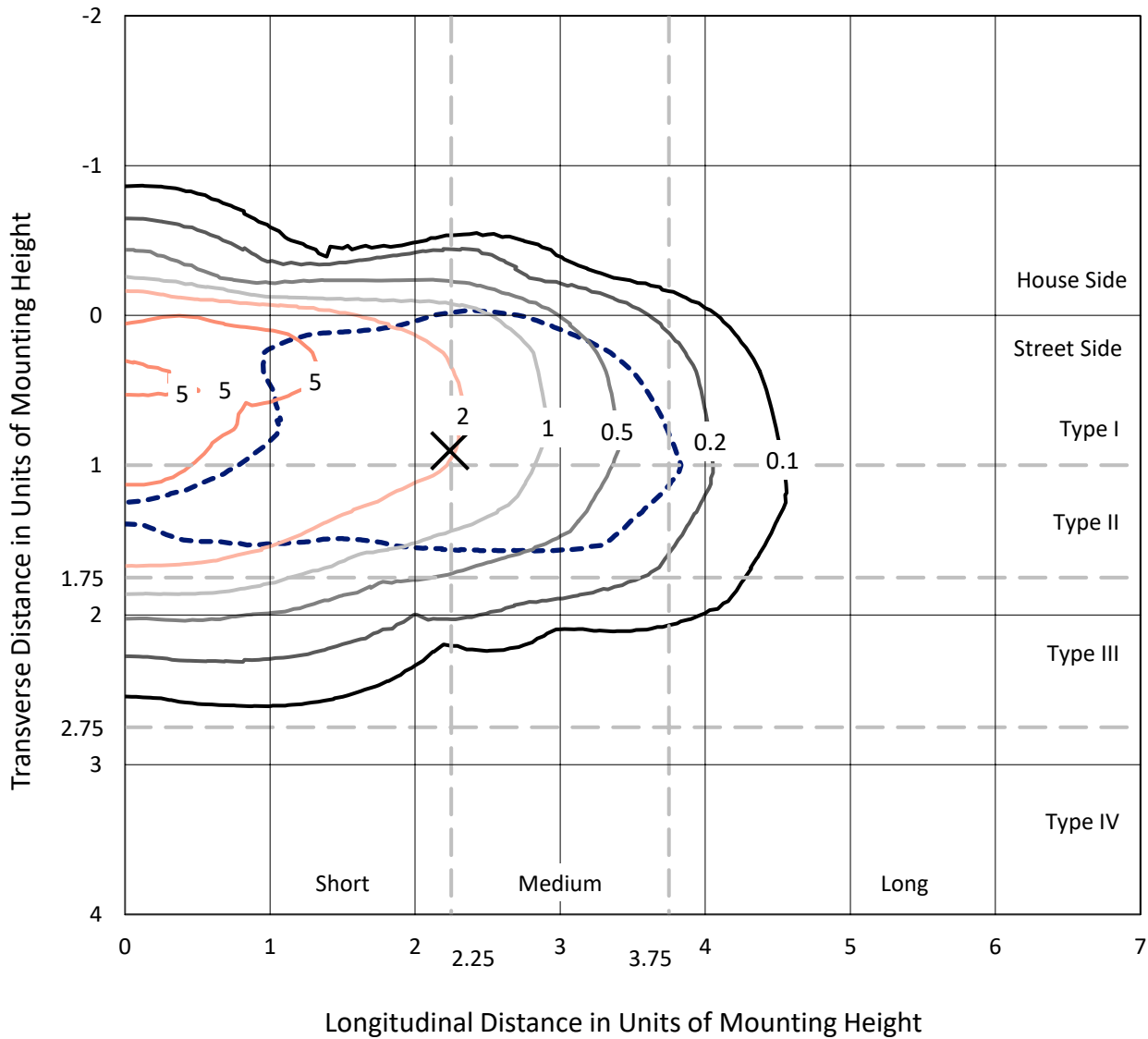
Lumens per Lamp: N/A  
Luminaire Lumens: 33531.3 lumens  
Efficiency: N/A  
Efficacy: 103.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 323.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 0  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

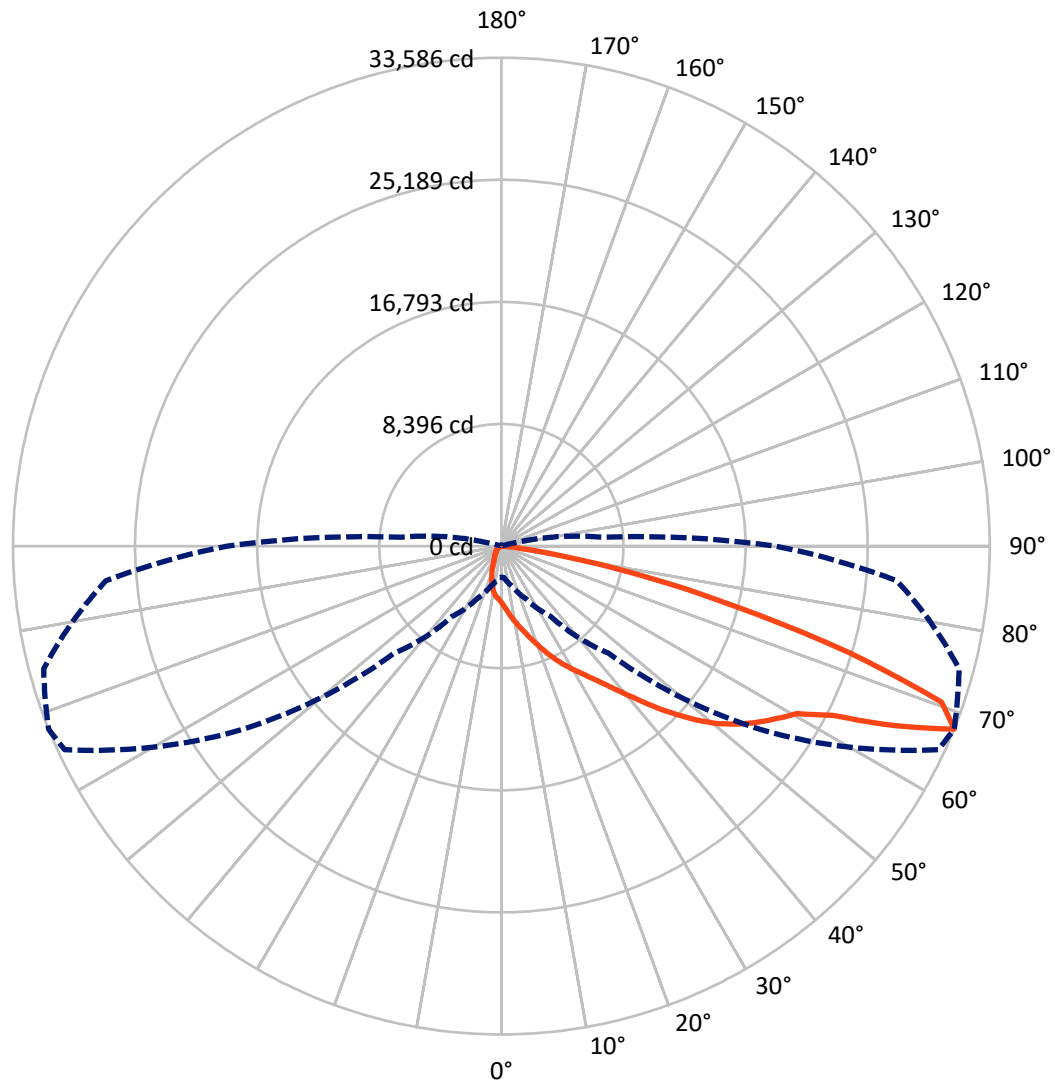
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2421.3	0.0	2421.3
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	31109.9	0.0	31109.9
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	33531.3	0.0	33531.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	380.6	1.1
10°-20°	1092.9	3.3
20°-30°	1878.2	5.6
30°-40°	3265.4	9.7
40°-50°	5697.9	17.0
50°-60°	8593.8	25.6
60°-70°	8617.4	25.7
70°-80°	3802.0	11.3
80°-90°	203.1	0.6
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°	33531.3	100.0
0°-180°	33531.3	100.0

**Coefficient of Utilization**



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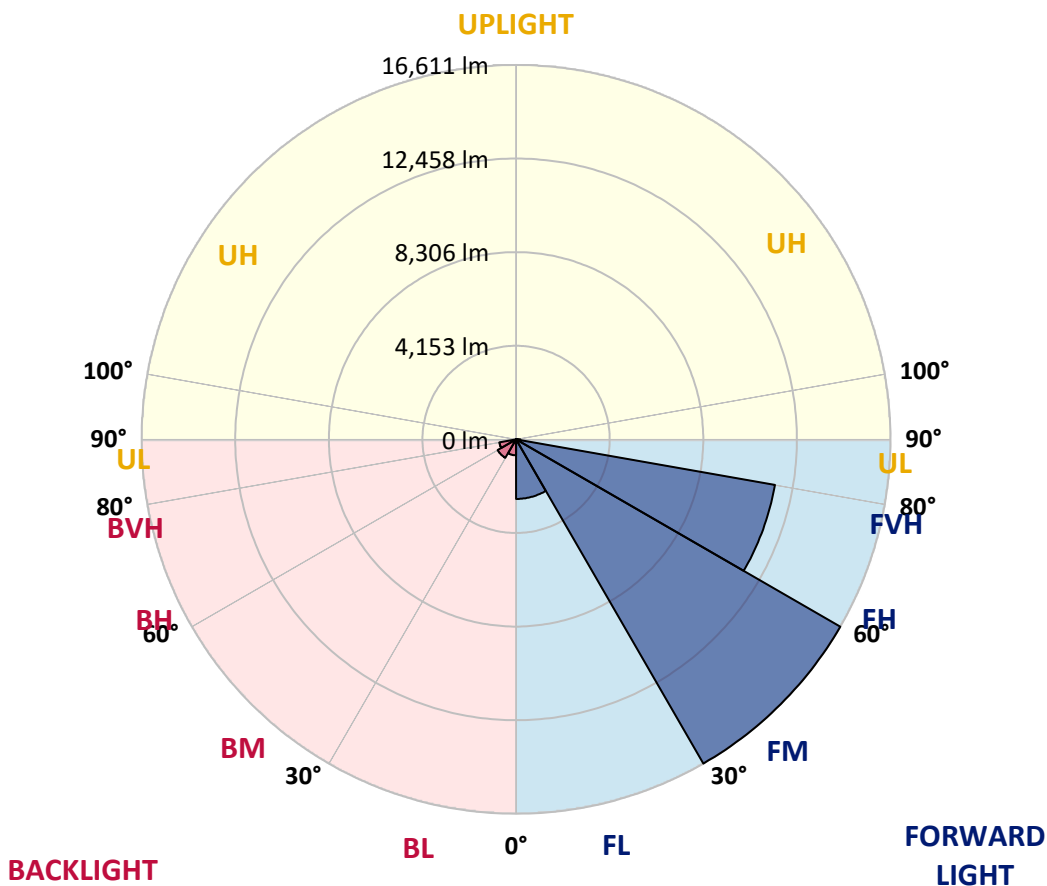
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2643.3	7.9			
FM (30°-60°)	16611.3	49.5			
FH (60°-80°)	11663.7	34.8			G4/12000
FVH (80°-90°)	191.6	0.6			G2/225
BL (0°-30°)	708.4	2.1	B2/1000		
BM (30°-60°)	945.8	2.8	B1/1000		
BH (60°-80°)	755.7	2.3	B2/1000		G2/1000
BVH (80°-90°)	11.5	0.0			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°	68°	75°	85°
0°	3902.2	3902.2	3902.2	3902.2	3902.2	3902.2	3902.2	3902.2	3902.2	3902.2	3902.2
2.5°	4544.0	4572.9	4544.0	4550.4	4467.0	4428.5	4345.0	4229.5	4200.6	4126.8	4014.5
5°	5099.2	5124.8	5096.0	5089.5	4993.3	4922.7	4784.7	4585.7	4528.0	4383.5	4162.1
7.5°	5400.8	5416.9	5426.5	5442.5	5407.2	5349.5	5224.3	4977.2	4916.2	4682.0	4370.7
10°	5432.9	5445.7	5493.9	5590.1	5660.7	5696.0	5625.4	5397.6	5301.3	5073.5	4627.4
12.5°	5343.0	5362.3	5439.3	5599.8	5795.5	5975.2	6020.2	5821.2	5734.6	5442.5	4929.1
15°	5224.3	5240.4	5346.3	5564.5	5859.7	6190.2	6376.4	6289.7	6193.4	5888.6	5262.8
17.5°	5041.4	5063.9	5211.5	5506.7	5888.6	6360.3	6761.4	6790.3	6722.9	6392.4	5631.9
20°	4938.7	4954.8	5086.3	5391.2	5869.3	6485.5	7120.9	7393.6	7319.8	6973.2	6055.5
22.5°	5025.4	5038.2	5124.8	5362.3	5805.2	6556.1	7454.6	7996.9	7955.2	7595.8	6501.5
25°	5481.0	5522.8	5471.4	5513.1	5834.0	6594.6	7724.2	8600.2	8609.9	8247.2	6963.6
27.5°	6405.2	6350.7	6228.7	6020.2	6058.7	6697.3	7955.2	9168.2	9251.7	8882.6	7374.4
30°	7345.5	7313.4	7239.6	6915.5	6645.9	6925.1	8151.0	9749.1	9880.6	9508.4	7740.2
32.5°	8401.3	8433.4	8301.8	7913.5	7454.6	7387.2	8353.1	10301.0	10548.1	10217.6	8170.2
35°	9662.4	9672.0	9412.1	8982.1	8462.2	8151.0	8715.7	10910.7	11366.4	11122.5	8744.6
37.5°	10891.5	10949.2	10808.0	10130.9	9668.8	9100.8	9315.8	11693.7	12335.5	12239.3	9466.7
40°	11979.3	12069.2	12024.3	11369.6	10763.1	10285.0	10246.5	12611.5	13506.8	13615.9	10419.7
42.5°	12845.8	12903.5	12938.8	12473.5	11937.6	11668.1	11395.3	13676.9	14889.9	15336.0	11587.8
45°	13760.4	13779.6	13853.4	13538.9	13070.4	13092.9	12752.7	14970.2	16346.8	17242.2	12929.2
47.5°	14925.2	14989.4	14954.1	14623.6	14200.0	14453.5	14155.1	16301.9	17784.5	19276.7	14302.7
50°	16343.6	16411.0	16378.9	15993.8	15522.1	15628.0	15441.9	17595.2	19170.8	21195.7	15445.1
52.5°	17075.3	17129.8	17527.8	17701.1	17454.0	16780.1	16539.4	19016.8	20342.1	22774.5	16494.5
55°	16722.3	16760.8	17627.2	18358.9	19263.9	18590.0	17643.3	20114.3	21375.4	24006.8	17274.3
57.5°	15259.0	15467.6	16645.3	17884.0	19786.9	20377.4	19433.9	21308.0	22370.2	24863.6	18041.2
60°	12258.5	12248.9	13936.9	16160.7	18766.5	20868.4	21962.7	22922.2	23368.2	25521.5	19068.1
62.5°	6774.3	6835.3	9081.6	12011.4	15929.7	19597.6	23859.2	25710.8	25643.4	26670.3	20675.8
65°	3372.7	3494.6	4714.1	6880.2	10599.5	16196.0	24186.5	29966.0	29773.5	29375.5	23997.2
67.5°	2140.4	2188.6	2862.5	3998.5	5891.8	10410.1	22148.8	33139.7	33585.8	32584.6	27292.9
70°	1386.3	1466.5	1989.6	2734.1	3555.6	5365.5	16224.9	31082.7	32106.4	32231.6	25239.1
72.5°	754.1	811.9	1270.8	1951.1	2567.2	2682.8	9113.7	23326.5	24972.7	27341.0	19745.2
75°	430.0	471.7	696.4	1325.3	1883.7	1633.4	4040.2	15615.2	16664.5	19539.8	14148.7
77.5°	259.9	295.2	391.5	645.0	1180.9	1091.1	1527.5	9505.2	10172.7	11658.4	7425.7
80°	118.7	141.2	247.1	356.2	645.0	516.7	584.0	4431.7	4576.1	4784.7	2458.1
82.5°	54.6	64.2	112.3	211.8	365.8	298.4	224.6	1023.7	1440.9	1363.8	625.8
85°	6.4	6.4	41.7	86.6	102.7	77.0	93.1	231.1	292.0	410.8	179.7
87.5°	0.0	0.0	3.2	3.2	6.4	9.6	19.3	28.9	41.7	67.4	44.9
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°	3902.2	3902.2	3902.2	3902.2	3902.2	3902.2	3902.2	3902.2	3902.2	3902.2	3902.2
2.5°	3963.2	3873.3	3793.1	3674.3	3594.1	3504.3	3443.3	3369.5	3340.6	3318.1	3286.1
5°	4053.0	3908.6	3712.9	3494.6	3314.9	3144.9	2987.6	2884.9	2795.1	2782.2	2737.3
7.5°	4200.6	3985.6	3655.1	3298.9	2994.0	2711.6	2490.2	2310.5	2220.7	2191.8	2140.4
10°	4396.4	4101.2	3568.5	3022.9	2583.3	2246.3	1996.0	1793.9	1652.7	1601.3	1562.8
12.5°	4614.6	4207.0	3430.5	2682.8	2182.1	1797.1	1479.4	1264.4	1174.5	1142.4	1113.5
15°	4864.9	4306.5	3212.2	2342.6	1790.6	1322.1	1097.5	1004.4	965.9	956.3	946.7
17.5°	5105.6	4370.7	2952.3	1989.6	1376.7	1026.9	921.0	885.7	876.1	866.4	860.0
20°	5378.3	4415.6	2647.5	1655.9	1068.6	869.6	818.3	792.6	773.4	754.1	750.9
22.5°	5657.5	4415.6	2316.9	1328.5	895.3	779.8	722.0	673.9	638.6	619.3	612.9
25°	5923.9	4354.7	1989.6	1062.2	789.4	693.2	619.3	564.8	516.7	494.2	487.8
27.5°	6113.2	4197.4	1704.0	898.5	715.6	616.1	526.3	465.3	426.8	404.3	401.1
30°	6232.0	3963.2	1440.9	802.3	651.4	535.9	446.1	394.7	365.8	349.8	343.4
32.5°	6321.8	3674.3	1206.6	734.9	590.5	465.3	388.3	346.6	320.9	308.1	304.9
35°	6501.5	3401.6	1033.3	673.9	526.3	407.5	340.2	308.1	288.8	272.8	269.6
37.5°	6751.8	3173.7	895.3	619.3	465.3	362.6	308.1	279.2	263.1	247.1	243.9
40°	7120.9	3029.3	792.6	564.8	410.8	327.3	282.4	256.7	234.3	218.2	215.0
42.5°	7688.9	2961.9	725.2	510.2	362.6	295.2	259.9	227.8	205.4	189.3	186.1
45°	8366.0	2997.2	667.5	455.7	330.5	272.8	231.1	199.0	176.5	160.5	157.2
47.5°	9091.2	3122.4	619.3	404.3	298.4	250.3	205.4	170.1	150.8	134.8	131.6
50°	9848.5	3327.8	577.6	356.2	272.8	224.6	176.5	147.6	128.4	115.5	112.3
52.5°	10506.4	3607.0	535.9	320.9	250.3	199.0	154.0	128.4	109.1	96.3	93.1
55°	11135.4	3870.1	503.8	288.8	224.6	173.3	134.8	109.1	93.1	80.2	77.0
57.5°	11818.9	4149.3	465.3	259.9	202.2	154.0	118.7	93.1	80.2	67.4	64.2
60°	12813.7	4563.3	407.5	237.5	176.5	134.8	102.7	83.4	70.6	54.6	51.3
62.5°	14248.1	5317.4	343.4	205.4	150.8	115.5	86.6	70.6	57.8	44.9	38.5
65°	16930.9	6601.0	282.4	170.1	121.9	96.3	73.8	57.8	44.9	32.1	28.9
67.5°	18862.7	6934.7	227.8	138.0	99.5	73.8	61.0	44.9	32.1	22.5	19.3
70°	16491.2	4980.4	176.5	112.3	83.4	57.8	48.1	35.3	22.5	16.0	12.8
72.5°	12425.4	3254.0	131.6	86.6	64.2	48.1	35.3	28.9	19.3	12.8	9.6
75°	8757.5	1880.5	96.3	64.2	44.9	35.3	28.9	22.5	16.0	9.6	9.6
77.5°	4489.4	776.6	67.4	44.9	32.1	22.5	19.3	12.8	12.8	9.6	6.4
80°	1363.8	256.7	38.5	28.9	22.5	16.0	9.6	9.6	9.6	6.4	3.2
82.5°	311.3	83.4	22.5	22.5	16.0	12.8	9.6	3.2	3.2	0.0	0.0
85°	80.2	25.7	19.3	16.0	16.0	12.8	6.4	3.2	0.0	0.0	0.0
87.5°	28.9	16.0	16.0	16.0	12.8	9.6	6.4	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)