

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: P643287

Luminaire Tested: GWS-SA6E-750-U-T3R-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643287  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-18)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SAGE-750-U-T3R-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (96) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

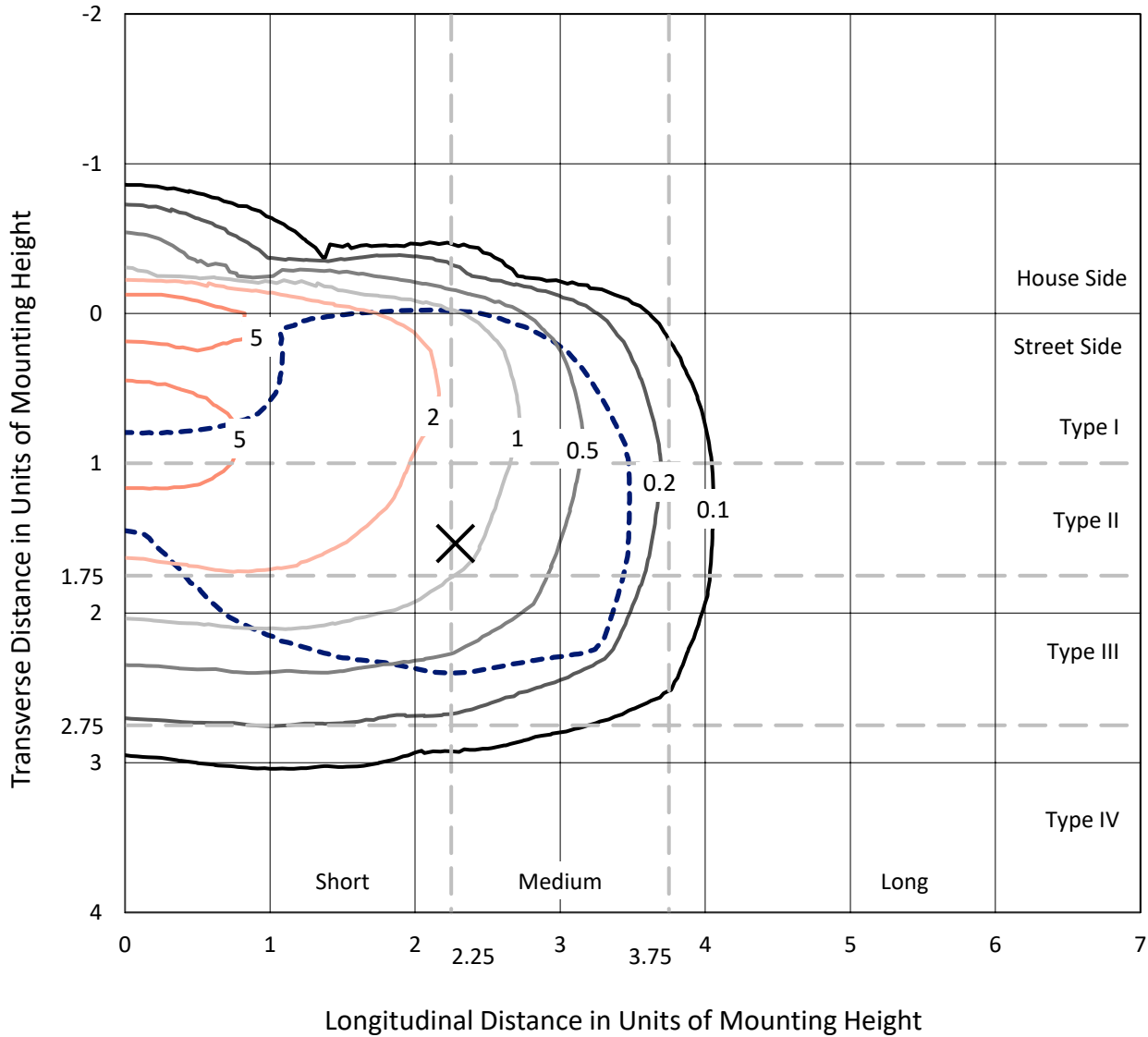
Lumens per Lamp: N/A  
Luminaire Lumens: 35845.8 lumens  
Efficiency: N/A  
Efficacy: 110.7 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 323.8  
Input Voltage (V): 120  
Input Current (Ain): 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

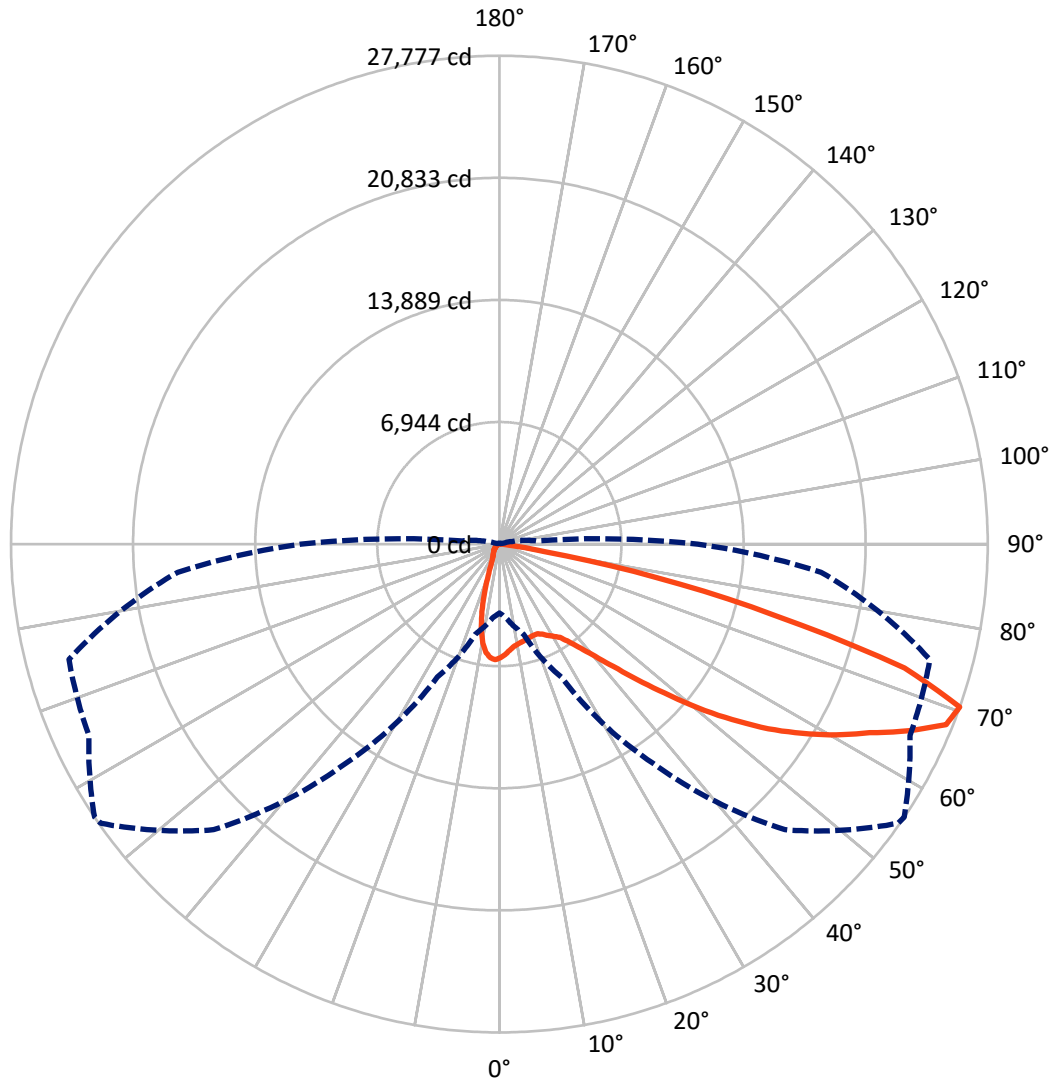
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.6 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3219.6	0.0	3219.6
	% Fixture	9.0	0.0	9.0
<b>Street Side</b>	Lumens	32626.2	0.0	32626.2
	% Fixture	91.0	0.0	91.0
<b>Total</b>	Lumens	35845.8	0.0	35845.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	554.9	1.5
10°-20°	1248.1	3.5
20°-30°	1977.0	5.5
30°-40°	3409.4	9.5
40°-50°	5757.2	16.1
50°-60°	8459.2	23.6
60°-70°	10028.9	28.0
70°-80°	4276.7	11.9
80°-90°	134.3	0.4
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°	35845.8	100.0
0°-180°	35845.8	100.0

**Coefficient of Utilization**



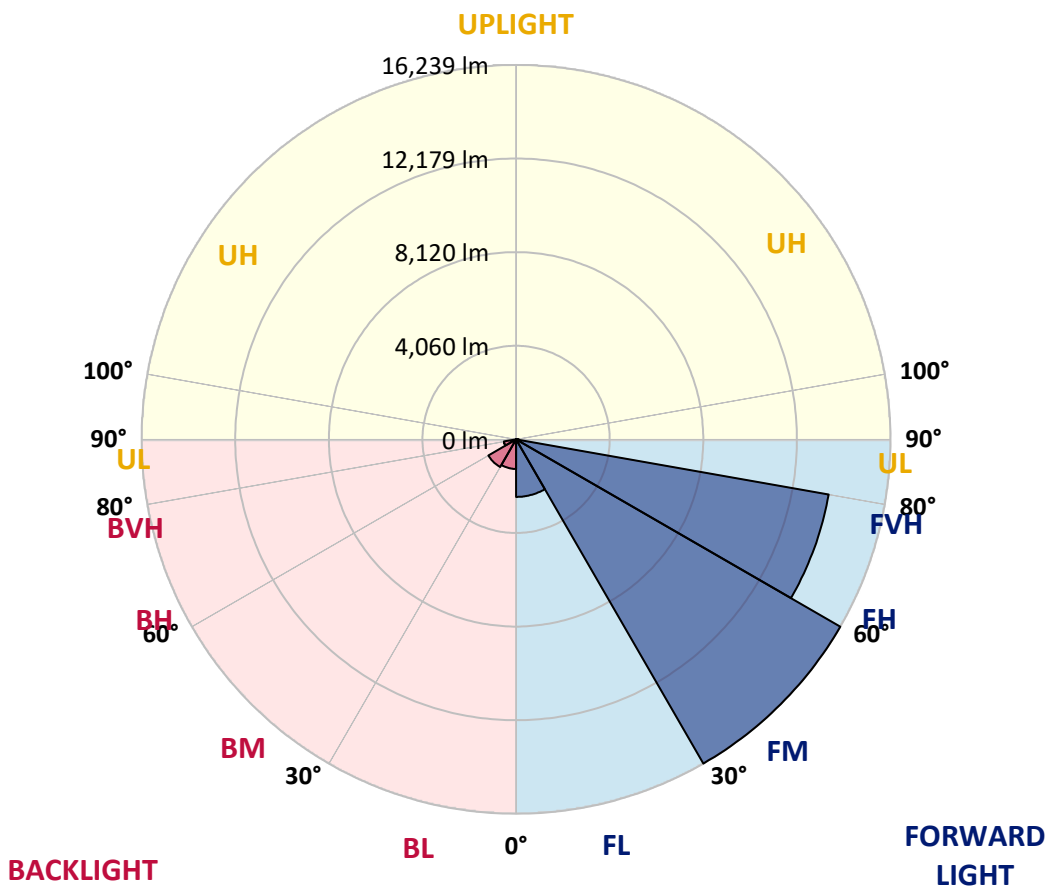
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2497.8	7.0			
FM (30°-60°)	16239.1	45.3			
FH (60°-80°)	13768.6	38.4			G5
FVH (80°-90°)	120.7	0.3			G2/225
BL (0°-30°)	1282.3	3.6	B3/2500		
BM (30°-60°)	1386.7	3.9	B2/2500		
BH (60°-80°)	537.0	1.5	B2/1000		G2/1000
BVH (80°-90°)	13.6	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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	6463.4	6463.4	6463.4	6463.4	6463.4	6463.4	6463.4	6463.4	6463.4	6463.4	6463.4
2.5°	6016.9	6007.1	6013.6	6062.9	6154.8	6197.5	6269.7	6282.8	6341.9	6417.4	6446.9
5°	5626.3	5593.5	5609.9	5678.8	5783.9	5902.0	6036.6	6072.7	6220.4	6387.9	6512.6
7.5°	5268.5	5232.4	5271.8	5380.1	5527.8	5655.8	5856.1	5879.1	6115.4	6410.8	6637.3
10°	4707.2	4717.0	4795.8	4986.2	5212.7	5478.6	5747.8	5780.6	6072.7	6486.3	6837.6
12.5°	4277.2	4254.2	4339.5	4556.2	4874.6	5261.9	5665.7	5708.4	6076.0	6601.2	7093.6
15°	4076.9	4070.4	4106.5	4264.0	4572.6	5028.9	5590.2	5646.0	6118.7	6706.3	7336.5
17.5°	4083.5	4073.7	4070.4	4162.3	4392.1	4854.9	5508.1	5580.4	6154.8	6821.2	7592.6
20°	4369.1	4323.1	4241.1	4198.4	4336.3	4743.3	5452.3	5534.4	6207.3	6942.6	7865.0
22.5°	4966.5	4982.9	4763.0	4533.2	4467.6	4756.4	5445.8	5541.0	6322.2	7133.0	8199.8
25°	6161.4	6135.1	5728.1	5212.7	4854.9	4907.4	5560.7	5675.5	6548.7	7405.5	8515.0
27.5°	7658.2	7681.2	7123.2	6302.5	5554.1	5219.3	5770.7	5885.6	6811.3	7576.1	8725.0
30°	9289.6	9266.7	8669.2	7760.0	6545.4	5737.9	5980.8	6082.6	6942.6	7668.1	8941.7
32.5°	10832.4	10779.9	10189.1	9237.1	7809.2	6555.3	6269.7	6328.8	7116.6	7868.3	9233.8
35°	12148.8	12145.5	11630.1	10615.8	9109.1	7579.4	6765.4	6814.6	7441.6	8186.7	9663.9
37.5°	13507.7	13461.8	12884.0	11958.4	10445.1	8702.1	7523.6	7503.9	7953.6	8656.1	10192.3
40°	14623.8	14594.3	14151.1	13261.5	11833.6	9942.9	8442.7	8383.7	8560.9	9306.1	10927.6
42.5°	15451.0	15454.3	15316.4	14774.8	13304.2	11377.3	9598.2	9506.3	9503.0	10287.5	11899.3
45°	16078.0	16120.6	16327.4	16245.4	15040.7	13048.2	11078.6	10983.4	10822.6	11561.2	13012.1
47.5°	16370.1	16425.9	17049.6	17377.9	16560.5	14705.9	12841.4	12641.1	12326.0	13255.0	14256.2
50°	16340.6	16439.1	17308.9	18306.8	17939.2	16386.5	14761.7	14666.5	14151.1	15047.2	15487.1
52.5°	15670.9	15881.0	17325.3	18871.4	18999.5	17935.9	16747.6	16570.4	16320.9	16918.3	16642.6
55°	13852.4	14108.4	16632.7	19052.0	19826.7	19288.3	18690.9	18546.5	18132.9	18684.3	17650.3
57.5°	12864.3	13084.3	15175.3	18963.3	20529.1	20539.0	20420.8	20302.6	19961.2	20430.6	18832.0
60°	12270.2	12490.1	14397.3	18638.4	21165.9	21858.6	22045.7	22032.5	21540.2	22416.6	20217.3
62.5°	11400.3	11702.3	13586.5	17794.8	21618.9	23158.5	23723.1	23634.4	23086.2	24484.6	21589.4
65°	9644.2	9906.8	11925.5	16402.9	21353.0	24235.1	25541.6	25587.5	24954.0	26431.2	22672.6
67.5°	6762.1	6955.7	8961.4	13481.5	19547.6	24589.6	27402.8	27399.5	26319.6	27429.1	22193.4
70°	3919.4	4185.3	5294.8	8334.4	15208.1	22977.9	27681.8	27777.0	25764.8	25344.6	18365.9
72.5°	1516.5	1736.5	3000.3	4428.2	7930.7	17601.1	23811.7	24090.7	21563.1	19550.9	12782.3
75°	453.0	505.5	1411.5	2356.9	3184.1	8501.8	16120.6	16199.4	14791.2	12194.7	6552.0
77.5°	338.1	374.2	617.1	1191.6	1116.1	2576.8	8341.0	9109.1	7851.9	4356.0	1805.4
80°	229.8	272.5	439.9	581.0	413.6	686.1	2343.7	2573.5	2396.3	978.2	453.0
82.5°	101.8	131.3	311.8	292.1	151.0	197.0	722.2	768.1	495.7	295.4	157.6
85°	9.8	13.1	118.2	128.0	55.8	46.0	151.0	151.0	108.3	101.8	65.7
87.5°	0.0	0.0	3.3	6.6	6.6	9.8	13.1	16.4	19.7	26.3	32.8
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°	6463.4	6463.4	6463.4	6463.4	6463.4	6463.4	6463.4	6463.4	6463.4	6463.4	6463.4
2.5°	6522.4	6483.1	6532.3	6571.7	6581.5	6509.3	6466.6	6404.3	6391.1	6394.4	6378.0
5°	6611.1	6591.4	6627.5	6584.8	6473.2	6263.1	6082.6	5882.3	5774.0	5711.7	5705.1
7.5°	6775.2	6765.4	6726.0	6532.3	6184.3	5718.2	5268.5	4828.6	4556.2	4457.7	4441.3
10°	7018.1	6998.4	6837.6	6378.0	5636.2	4740.0	3985.0	3354.8	2970.7	2859.1	2721.2
12.5°	7297.1	7257.7	6906.5	6046.5	4808.9	3568.1	2626.0	1920.3	1588.8	1490.3	1490.3
15°	7566.3	7481.0	6867.1	5498.3	3791.4	2320.8	1467.3	1109.5	1007.7	981.5	981.5
17.5°	7842.0	7677.9	6712.8	4749.9	2619.5	1372.1	978.2	909.3	896.1	899.4	902.7
20°	8101.4	7845.3	6440.4	3850.4	1670.8	958.5	876.4	860.0	853.5	860.0	856.7
22.5°	8383.7	7999.6	6026.8	2869.0	1086.5	863.3	833.8	820.6	814.1	823.9	823.9
25°	8662.7	8111.2	5478.6	1930.1	863.3	804.2	787.8	774.7	768.1	771.4	771.4
27.5°	8807.1	8068.5	4759.7	1231.0	774.7	745.1	728.7	712.3	702.5	699.2	702.5
30°	8905.6	7937.2	3880.0	876.4	702.5	666.4	649.9	636.8	610.6	594.1	600.7
32.5°	9059.9	7805.9	2924.8	735.3	643.4	587.6	561.3	528.5	492.4	476.0	476.0
35°	9243.7	7625.4	2051.6	663.1	581.0	521.9	472.7	416.9	374.2	361.1	361.1
37.5°	9486.6	7454.7	1365.5	613.8	528.5	466.1	397.2	331.5	285.6	279.0	275.7
40°	9851.0	7310.3	961.8	577.7	482.5	407.0	325.0	256.0	223.2	213.4	213.4
42.5°	10323.6	7162.5	761.6	541.6	443.1	351.2	259.3	203.5	177.3	170.7	167.4
45°	10907.9	6988.6	663.1	508.8	403.8	292.1	206.8	170.7	151.0	144.4	144.4
47.5°	11541.5	6752.2	617.1	466.1	357.8	236.3	174.0	147.7	137.9	134.6	131.3
50°	12165.2	6433.8	577.7	426.7	305.3	193.7	151.0	134.6	128.0	124.7	124.7
52.5°	12710.1	6062.9	528.5	380.8	249.5	167.4	134.6	124.7	118.2	111.6	108.3
55°	13176.2	5659.1	466.1	328.3	203.5	147.7	124.7	114.9	108.3	101.8	98.5
57.5°	13776.9	5429.4	374.2	265.9	167.4	131.3	114.9	105.0	98.5	88.6	88.6
60°	14443.3	5261.9	279.0	210.1	144.4	121.5	105.0	95.2	88.6	78.8	78.8
62.5°	14978.3	5012.5	219.9	170.7	124.7	108.3	95.2	85.3	78.8	68.9	68.9
65°	15181.8	4497.1	180.5	134.6	101.8	95.2	85.3	78.8	68.9	59.1	59.1
67.5°	14262.7	3466.4	151.0	108.3	85.3	82.1	75.5	72.2	59.1	52.5	49.2
70°	11295.3	2114.0	124.7	88.6	72.2	68.9	68.9	62.4	52.5	49.2	46.0
72.5°	7740.3	1089.8	101.8	72.2	62.4	62.4	59.1	55.8	49.2	46.0	46.0
75°	4021.1	364.4	78.8	55.8	49.2	52.5	52.5	49.2	46.0	46.0	42.7
77.5°	1152.2	164.1	59.1	42.7	39.4	39.4	42.7	42.7	42.7	39.4	39.4
80°	298.7	95.2	42.7	32.8	32.8	32.8	32.8	36.1	39.4	36.1	36.1
82.5°	121.5	52.5	29.5	26.3	26.3	26.3	26.3	29.5	32.8	32.8	32.8
85°	75.5	26.3	23.0	23.0	23.0	19.7	19.7	23.0	23.0	26.3	26.3
87.5°	46.0	19.7	19.7	19.7	19.7	16.4	16.4	16.4	16.4	16.4	16.4
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)