

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: P643146

Luminaire Tested: GWS-SA6E-735-U-SL2-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643146  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-30)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SAGE-735-U-SL2-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (96) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

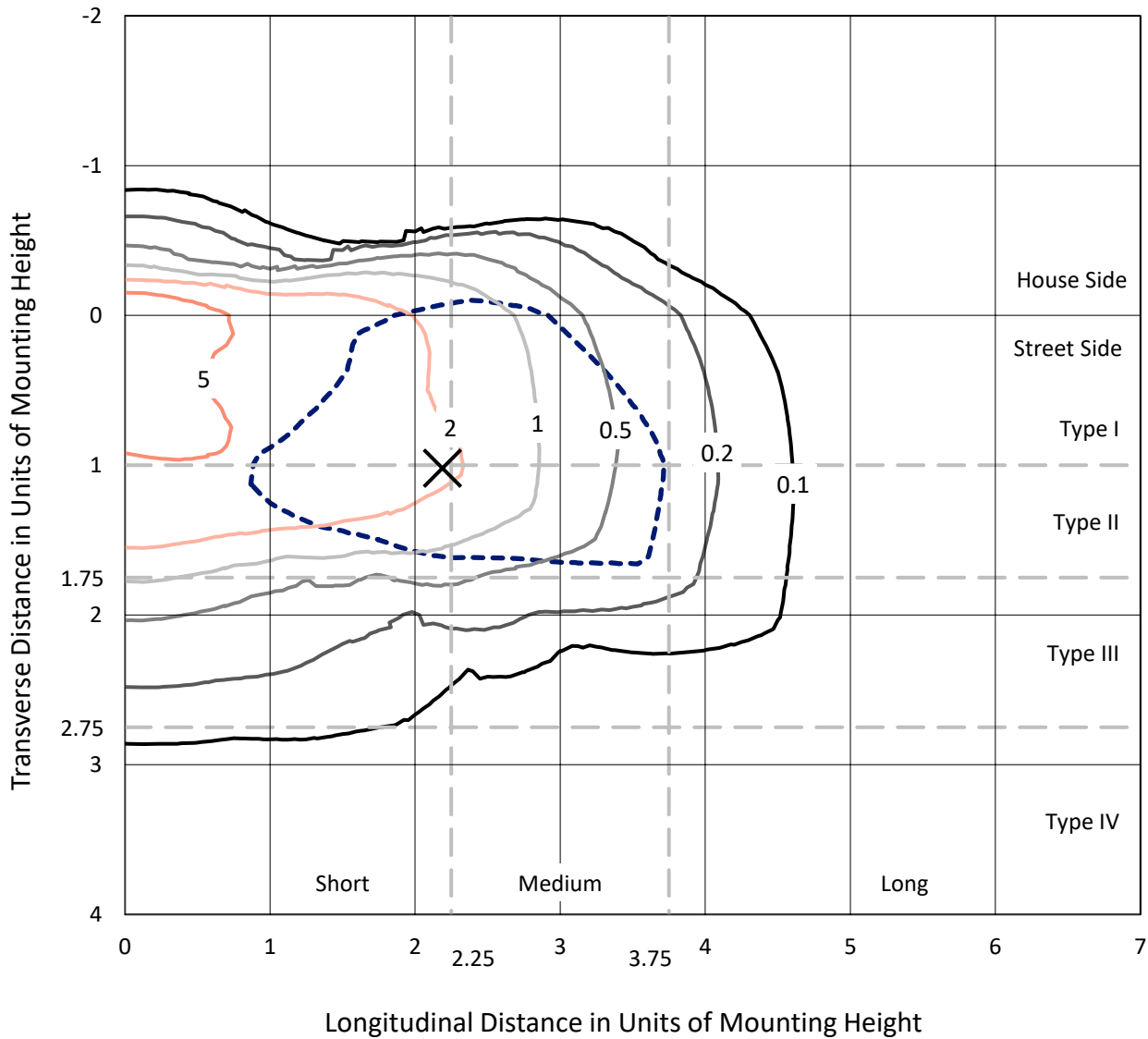
Lumens per Lamp: N/A  
Luminaire Lumens: 34999.2 lumens  
Efficiency: N/A  
Efficacy: 108.1 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 323.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
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



REPORT NUMBER: P643146  
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### Iso-Footcandle Lines of Horizontal Illumination

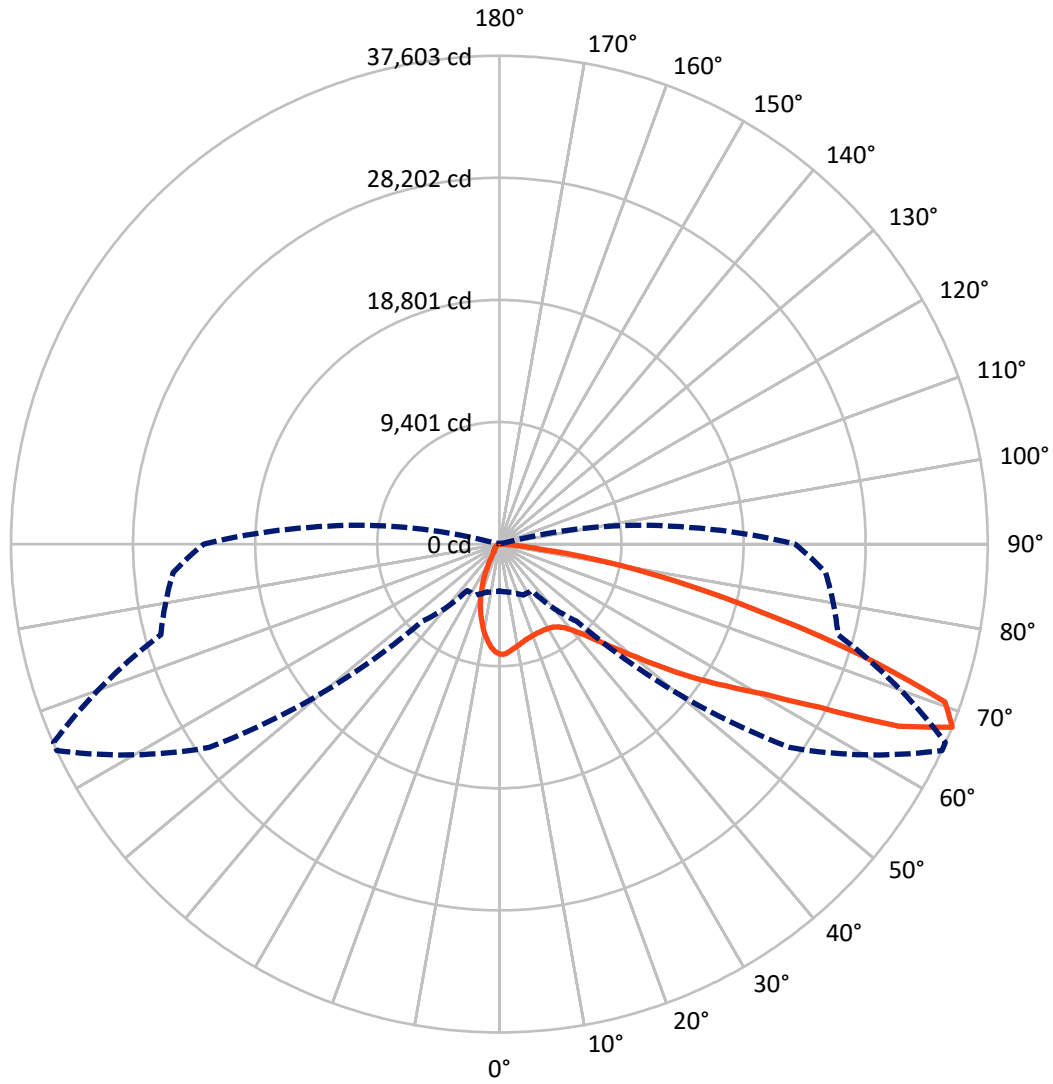
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.4 fc  
 Type II - Short - N/A

REPORT NUMBER: P643146  
CATALOG NUMBER: GWS-SA6E-735-U-SL2-W-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4370.3	0.0	4370.3
	% Fixture	12.5	0.0	12.5
<b>Street Side</b>	Lumens	30628.8	0.0	30628.8
	% Fixture	87.5	0.0	87.5
<b>Total</b>	Lumens	34999.2	0.0	34999.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	705.0	2.0
10°-20°	1584.8	4.5
20°-30°	2264.6	6.5
30°-40°	3294.7	9.4
40°-50°	5160.1	14.7
50°-60°	8049.9	23.0
60°-70°	8842.4	25.3
70°-80°	4705.9	13.4
80°-90°	391.8	1.1
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°	34999.2	100.0
0°-180°	34999.2	100.0

**Coefficient of Utilization**



REPORT NUMBER: P643146

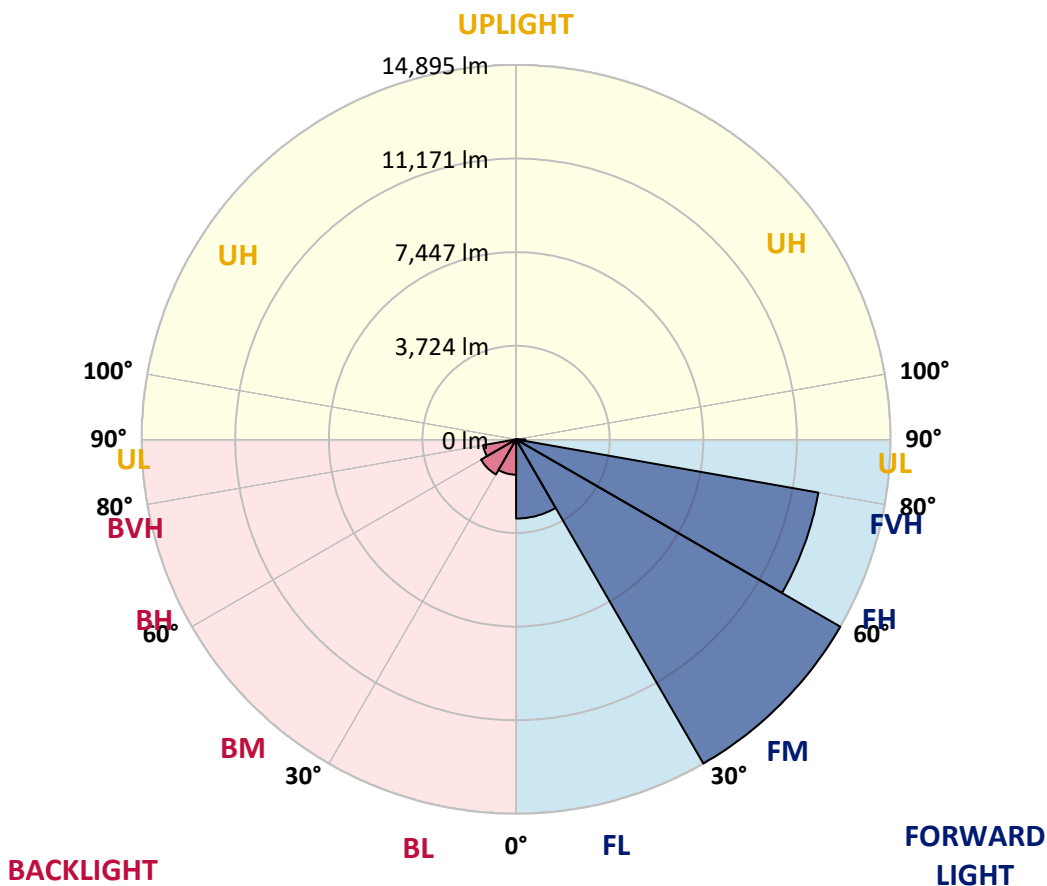
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3149.7	9.0			
FM (30°-60°)	14894.9	42.6			
FH (60°-80°)	12213.4	34.9			G5
FVH (80°-90°)	370.8	1.1			G3/500
BL (0°-30°)	1404.7	4.0	B3/2500		
BM (30°-60°)	1609.8	4.6	B2/2500		
BH (60°-80°)	1334.9	3.8	B3/2500		G3/2500
BVH (80°-90°)	21.0	0.1			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 II Short





REPORT NUMBER: P643146

CATALOG NUMBER: GWS-SA6E-735-U-SL2-W-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	8488.4	8488.4	8488.4	8488.4	8488.4	8488.4	8488.4	8488.4	8488.4	8488.4	8488.4
2.5°	8194.1	8219.4	8184.6	8270.0	8285.9	8380.8	8434.6	8472.6	8469.4	8516.9	8516.9
5°	7713.0	7738.3	7719.3	7811.1	7883.9	8032.7	8156.1	8298.5	8304.8	8450.4	8504.2
7.5°	7304.7	7307.9	7307.9	7421.8	7516.8	7700.3	7883.9	8102.3	8127.6	8352.3	8494.7
10°	6969.2	6978.7	6981.9	7111.7	7216.1	7437.6	7671.9	7934.5	7963.0	8266.9	8488.4
12.5°	6738.2	6741.4	6754.0	6890.1	7004.0	7235.1	7472.5	7773.1	7811.1	8168.7	8459.9
15°	6627.4	6621.1	6627.4	6741.4	6855.3	7076.8	7320.5	7643.4	7684.5	8086.5	8463.1
17.5°	6621.1	6611.6	6605.3	6690.7	6763.5	6959.7	7206.6	7557.9	7602.2	8048.5	8497.9
20°	6712.9	6706.5	6674.9	6712.9	6728.7	6890.1	7133.8	7491.4	7535.8	8042.1	8573.9
22.5°	6953.4	6937.6	6890.1	6855.3	6769.8	6864.8	7083.2	7444.0	7494.6	8058.0	8672.0
25°	7311.0	7304.7	7244.6	7159.1	6940.7	6902.8	7086.3	7444.0	7491.4	8077.0	8776.4
27.5°	7849.1	7811.1	7735.1	7586.4	7273.1	7051.5	7149.6	7463.0	7510.4	8102.3	8861.9
30°	8396.6	8393.5	8368.1	8216.2	7751.0	7336.4	7282.6	7513.6	7557.9	8124.4	8941.0
32.5°	8963.2	8972.6	9035.9	8918.8	8409.3	7760.5	7523.1	7618.0	7649.7	8168.7	9010.6
35°	9501.2	9520.2	9687.9	9729.1	9210.0	8403.0	7915.6	7826.9	7830.1	8266.9	9102.4
37.5°	10017.1	10080.4	10349.4	10548.8	10207.0	9181.5	8482.1	8181.4	8156.1	8463.1	9241.7
40°	10602.6	10722.9	11061.5	11400.2	11292.6	10210.1	9254.3	8725.8	8672.0	8823.9	9491.7
42.5°	11251.4	11381.2	11830.6	12305.3	12356.0	11454.0	10219.6	9520.2	9428.4	9431.6	9960.1
45°	11947.7	12121.8	12644.0	13327.6	13634.6	12840.2	11409.7	10593.1	10501.3	10365.2	10713.4
47.5°	12862.4	13014.3	13517.5	14305.6	14894.3	14327.7	12970.0	11973.0	11805.3	11605.9	11884.4
50°	13650.4	13783.4	14217.0	15204.4	16429.3	16245.7	14739.2	13697.9	13536.5	13197.9	13428.9
52.5°	13824.5	13929.0	14327.7	15438.6	17603.5	18666.9	16907.2	15783.6	15669.7	15043.0	15131.6
55°	13042.8	13201.0	13558.7	14793.0	17910.5	21034.3	19720.8	18135.2	17897.8	16897.7	17055.9
57.5°	11067.8	11349.5	11685.0	13289.6	17078.1	22293.9	23651.7	20626.0	20410.8	18682.7	18685.9
60°	8111.8	8339.7	8564.4	10032.9	15103.2	22208.5	27218.6	23423.8	23031.4	20141.8	20088.0
62.5°	5899.5	6016.6	6013.4	6535.6	10371.6	20746.3	29092.3	27639.5	26724.9	21702.1	21395.1
65°	4639.8	4636.7	4772.8	4943.7	5791.9	16014.7	29323.3	33795.4	32807.9	23794.1	23154.8
67.5°	3611.2	3680.8	3816.9	4320.2	4351.8	8380.8	27291.4	37602.8	37583.8	26987.6	25215.2
70°	2785.2	2880.1	3073.2	3807.4	4019.5	4690.5	20420.3	36397.0	36704.0	28415.0	23756.1
72.5°	1788.2	1781.9	2066.7	3076.3	3861.2	3908.7	11292.6	28911.9	29260.0	25737.4	19208.1
75°	1000.1	1006.5	1167.9	1883.1	3598.6	3677.7	5592.5	20616.5	20891.9	20065.8	14758.2
77.5°	392.5	405.1	547.5	990.6	2373.7	3285.2	3323.2	14058.7	14099.9	12435.1	9051.8
80°	158.2	167.7	278.5	614.0	1446.4	2212.3	2373.7	8282.7	8114.9	4813.9	2633.2
82.5°	47.5	50.6	110.8	348.1	756.4	1573.0	1601.5	3177.6	3000.4	1034.9	671.0
85°	3.2	3.2	25.3	107.6	269.0	395.6	1066.6	1034.9	917.8	259.5	297.5
87.5°	0.0	0.0	3.2	3.2	6.3	12.7	113.9	189.9	193.1	47.5	132.9
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°	8488.4	8488.4	8488.4	8488.4	8488.4	8488.4	8488.4	8488.4	8488.4	8488.4	8488.4
2.5°	8516.9	8403.0	8393.5	8304.8	8216.2	8105.4	7975.7	7880.7	7814.3	7697.2	7675.0
5°	8504.2	8352.3	8209.9	7956.7	7675.0	7371.2	7105.3	6858.5	6703.4	6598.9	6554.6
7.5°	8478.9	8285.9	7956.7	7478.8	7007.2	6475.5	6060.9	5681.1	5421.6	5269.6	5203.2
10°	8459.9	8200.4	7665.5	6940.7	6209.6	5475.4	4845.5	4282.2	3968.9	3722.0	3680.8
12.5°	8421.9	8077.0	7292.1	6310.9	5367.8	4393.0	3589.1	2899.1	2421.2	2206.0	2130.0
15°	8384.0	7947.2	6918.6	5646.3	4449.9	3247.2	2272.4	1607.8	1278.6	1177.4	1171.0
17.5°	8377.6	7830.1	6513.5	5016.5	3487.8	2126.8	1294.5	1041.3	971.6	946.3	946.3
20°	8396.6	7732.0	6114.7	4291.7	2541.5	1294.5	965.3	902.0	860.9	838.7	838.7
22.5°	8415.6	7630.7	5731.7	3560.6	1686.9	946.3	851.4	797.6	750.1	724.8	712.1
25°	8428.3	7519.9	5307.6	2826.3	1101.4	822.9	746.9	677.3	620.3	588.7	588.7
27.5°	8425.1	7387.0	4880.4	2107.9	854.5	731.1	639.3	566.5	509.6	474.7	477.9
30°	8399.8	7241.4	4437.3	1471.7	746.9	639.3	547.5	471.6	414.6	386.1	383.0
32.5°	8380.8	7086.3	3924.5	1034.9	671.0	560.2	465.2	392.5	345.0	322.8	319.7
35°	8358.6	6934.4	3437.1	788.1	604.5	484.2	392.5	332.3	294.3	275.4	275.4
37.5°	8365.0	6776.2	2908.6	677.3	538.0	420.9	335.5	284.8	253.2	234.2	231.0
40°	8463.1	6681.2	2389.5	614.0	477.9	364.0	291.2	246.9	215.2	196.2	193.1
42.5°	8706.8	6684.4	1892.6	566.5	424.1	310.2	253.2	212.1	183.6	161.4	158.2
45°	9194.2	6817.3	1452.7	515.9	367.1	269.0	218.4	180.4	151.9	132.9	129.8
47.5°	9991.8	7212.9	1101.4	471.6	319.7	234.2	186.7	151.9	126.6	110.8	107.6
50°	11260.9	7928.2	867.2	417.8	269.0	202.6	158.2	126.6	104.4	88.6	85.5
52.5°	12786.4	9001.1	743.8	370.3	231.0	177.2	136.1	104.4	85.5	72.8	69.6
55°	14539.8	10282.9	686.8	322.8	196.2	151.9	110.8	85.5	69.6	60.1	53.8
57.5°	16147.6	11438.1	683.6	275.4	167.7	129.8	91.8	72.8	60.1	47.5	44.3
60°	17714.3	12403.5	642.5	227.9	145.6	107.6	79.1	60.1	50.6	41.1	38.0
62.5°	19135.3	13188.4	538.0	183.6	123.4	88.6	66.5	53.8	44.3	34.8	34.8
65°	20920.4	14188.5	411.4	148.8	101.3	72.8	57.0	47.5	41.1	31.6	31.6
67.5°	22765.5	14717.0	294.3	123.4	82.3	63.3	50.6	44.3	34.8	28.5	28.5
70°	20619.7	12435.1	212.1	101.3	69.6	53.8	44.3	41.1	34.8	28.5	25.3
72.5°	16103.3	8966.3	158.2	79.1	60.1	50.6	41.1	38.0	31.6	25.3	25.3
75°	11941.4	5228.5	120.3	63.3	47.5	41.1	41.1	38.0	31.6	25.3	22.2
77.5°	6491.3	1823.0	91.8	50.6	38.0	31.6	34.8	34.8	28.5	22.2	19.0
80°	1718.6	500.1	63.3	38.0	31.6	25.3	25.3	31.6	25.3	19.0	19.0
82.5°	500.1	145.6	44.3	31.6	25.3	22.2	22.2	22.2	19.0	15.8	12.7
85°	243.7	53.8	31.6	25.3	22.2	19.0	15.8	15.8	12.7	9.5	9.5
87.5°	107.6	22.2	25.3	22.2	22.2	15.8	12.7	9.5	9.5	6.3	3.2
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)