

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: P638251

Luminaire Tested: GWS-SA4E-740-U-SL2-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638251  
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-SA4E-740-U-SL2-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (64) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

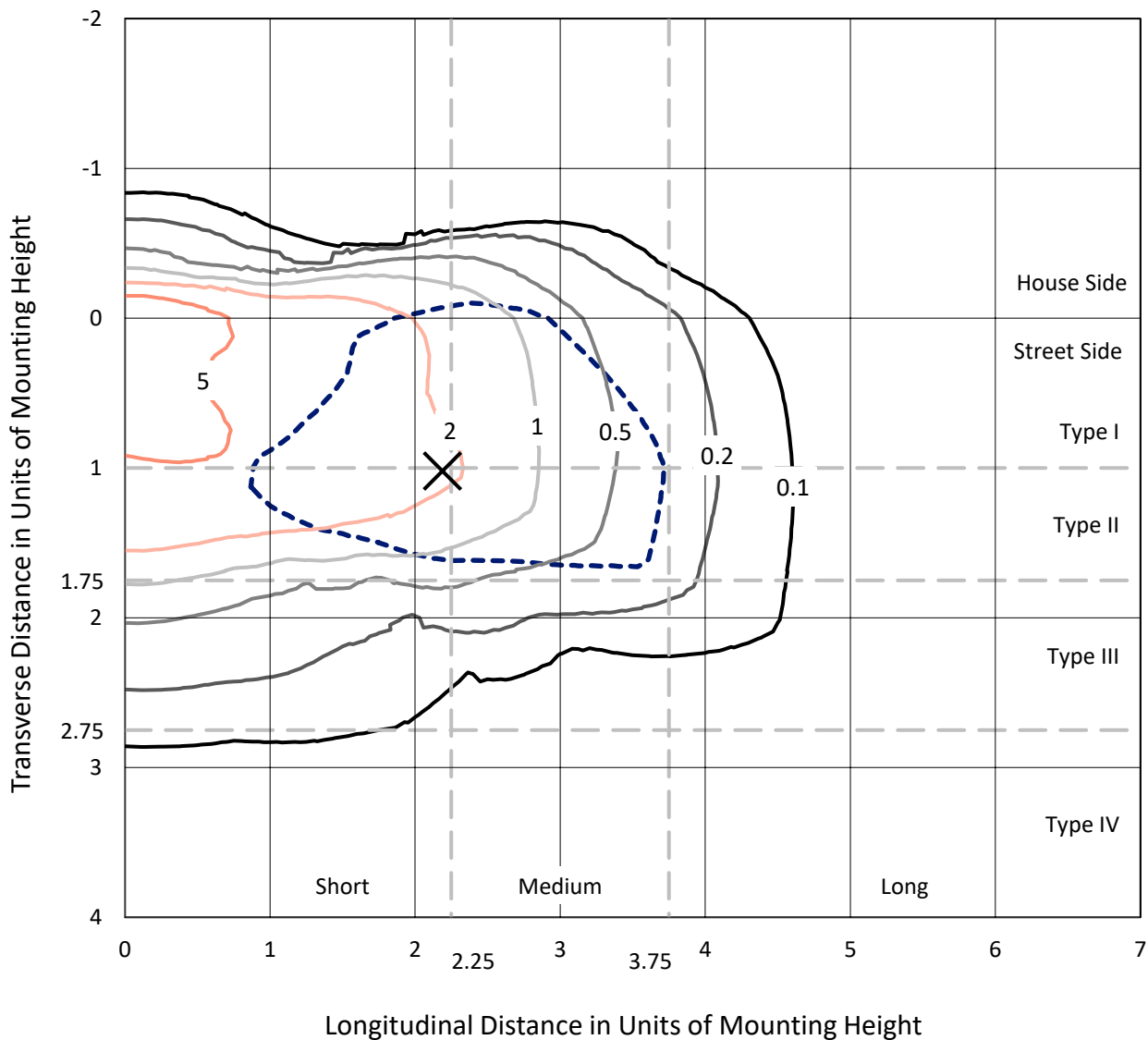
Lumens per Lamp: N/A  
Luminaire Lumens: 24259.2 lumens  
Efficiency: N/A  
Efficacy: 119.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 202.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

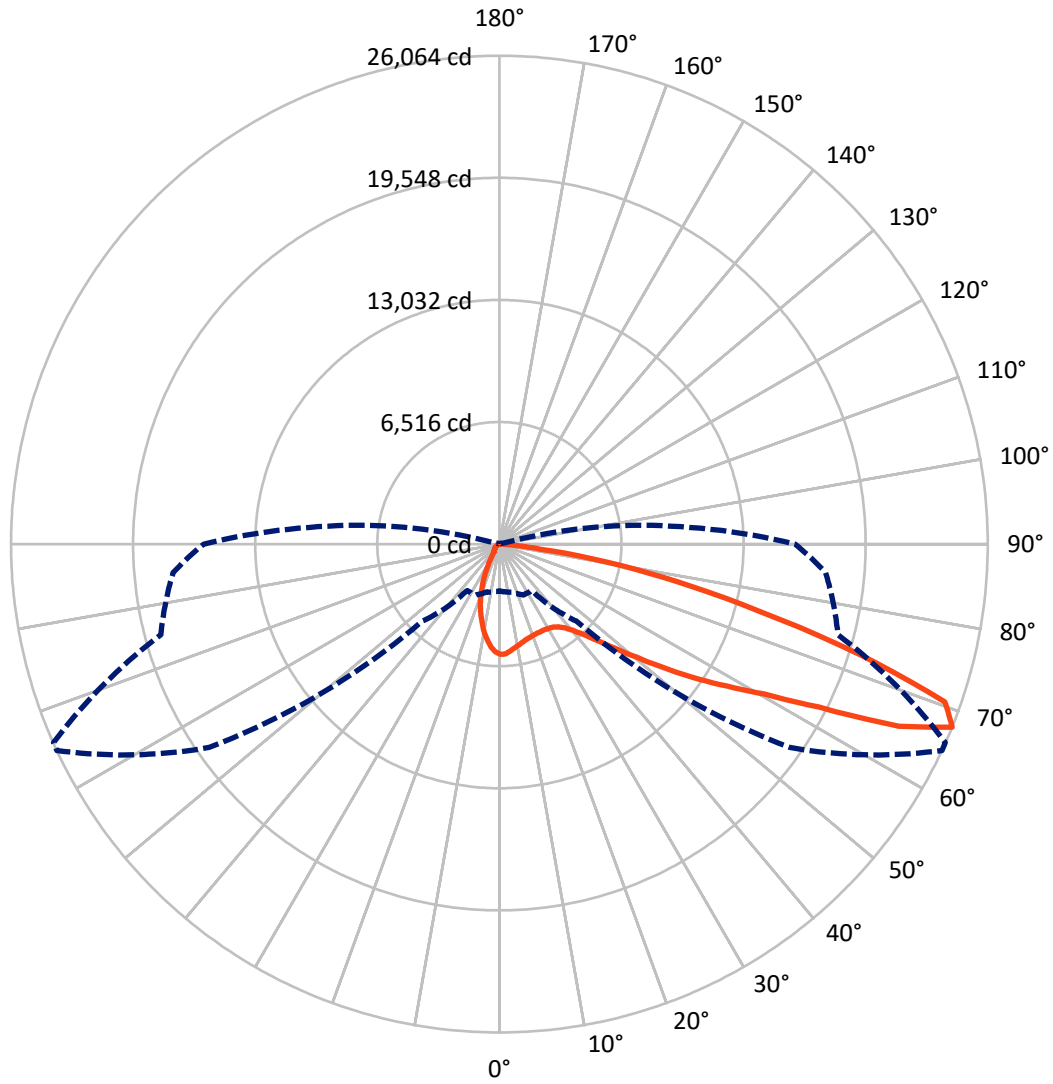
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc  
 Type II - Short - N/A

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### 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	3029.2	0.0	3029.2
	% Fixture	12.5	0.0	12.5
<b>Street Side</b>	Lumens	21230.0	0.0	21230.0
	% Fixture	87.5	0.0	87.5
<b>Total</b>	Lumens	24259.2	0.0	24259.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	488.7	2.0
10°-20°	1098.5	4.5
20°-30°	1569.7	6.5
30°-40°	2283.7	9.4
40°-50°	3576.6	14.7
50°-60°	5579.7	23.0
60°-70°	6129.0	25.3
70°-80°	3261.8	13.4
80°-90°	271.6	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°	24259.2	100.0
0°-180°	24259.2	100.0

**Coefficient of Utilization**



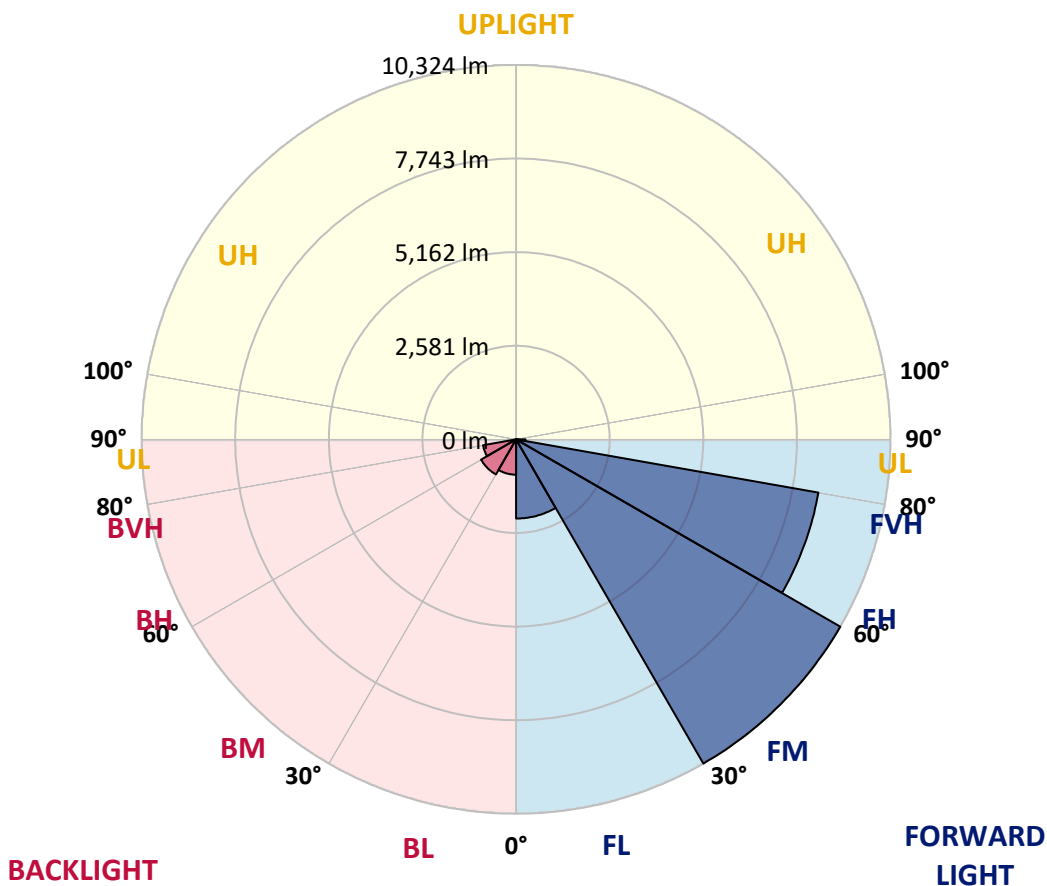
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2183.2	9.0			
FM (30°-60°)	10324.2	42.6			
FH (60°-80°)	8465.5	34.9			G4/12000
FVH (80°-90°)	257.0	1.1			G3/500
BL (0°-30°)	973.7	4.0	B2/1000		
BM (30°-60°)	1115.8	4.6	B2/2500		
BH (60°-80°)	925.2	3.8	B2/1000		G2/1000
BVH (80°-90°)	14.5	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°	66°	75°	85°
0°	5883.6	5883.6	5883.6	5883.6	5883.6	5883.6	5883.6	5883.6	5883.6	5883.6	5883.6
2.5°	5679.6	5697.2	5673.0	5732.3	5743.2	5809.0	5846.3	5872.7	5870.5	5903.4	5903.4
5°	5346.2	5363.7	5350.5	5414.2	5464.6	5567.7	5653.3	5752.0	5756.4	5857.3	5894.6
7.5°	5063.2	5065.4	5065.4	5144.3	5210.1	5337.4	5464.6	5616.0	5633.5	5789.3	5888.0
10°	4830.6	4837.2	4839.4	4929.3	5001.7	5155.3	5317.6	5499.7	5519.5	5730.1	5883.6
12.5°	4670.5	4672.7	4681.4	4775.8	4854.8	5014.9	5179.4	5387.8	5414.2	5662.1	5863.9
15°	4593.7	4589.3	4593.7	4672.7	4751.6	4905.2	5074.1	5297.9	5326.4	5605.0	5866.1
17.5°	4589.3	4582.7	4578.3	4637.6	4688.0	4824.0	4995.2	5238.7	5269.4	5578.7	5890.2
20°	4652.9	4648.5	4626.6	4652.9	4663.9	4775.8	4944.7	5192.6	5223.3	5574.3	5942.9
22.5°	4819.7	4808.7	4775.8	4751.6	4692.4	4758.2	4909.6	5159.7	5194.8	5585.3	6010.9
25°	5067.5	5063.2	5021.5	4962.2	4810.9	4784.6	4911.8	5159.7	5192.6	5598.4	6083.3
27.5°	5440.5	5414.2	5361.5	5258.4	5041.2	4887.7	4955.7	5172.8	5205.8	5616.0	6142.5
30°	5820.0	5817.8	5800.3	5695.0	5372.5	5085.1	5047.8	5207.9	5238.7	5631.3	6197.3
32.5°	6212.7	6219.3	6263.1	6182.0	5828.8	5379.1	5214.5	5280.3	5302.3	5662.1	6245.6
35°	6585.6	6598.8	6715.0	6743.6	6383.8	5824.4	5486.6	5425.1	5427.3	5730.1	6309.2
37.5°	6943.2	6987.1	7173.5	7311.7	7074.8	6364.1	5879.2	5670.8	5653.3	5866.1	6405.7
40°	7349.0	7432.4	7667.1	7901.9	7827.3	7077.0	6414.5	6048.2	6010.9	6116.2	6579.0
42.5°	7798.8	7888.7	8200.2	8529.3	8564.4	7939.2	7083.6	6598.8	6535.2	6537.4	6903.7
45°	8281.4	8402.0	8764.0	9237.9	9450.6	8900.0	7908.4	7342.5	7278.8	7184.5	7425.8
47.5°	8915.4	9020.7	9369.5	9915.7	10323.8	9931.1	8990.0	8298.9	8182.7	8044.5	8237.5
50°	9461.6	9553.8	9854.3	10538.7	11387.7	11260.5	10216.3	9494.5	9382.6	9147.9	9308.1
52.5°	9582.3	9654.7	9931.1	10701.1	12201.6	12938.7	11719.0	10940.2	10861.2	10426.9	10488.3
55°	9040.4	9150.1	9398.0	10253.6	12414.4	14579.6	13669.2	12570.2	12405.6	11712.4	11822.1
57.5°	7671.5	7866.8	8099.3	9211.5	11837.4	15452.7	16393.8	14296.6	14147.5	12949.7	12951.9
60°	5622.6	5780.5	5936.3	6954.2	10468.5	15393.5	18866.2	16235.9	15963.9	13961.0	13923.7
62.5°	4089.1	4170.3	4168.1	4530.1	7188.9	14380.0	20164.9	19158.0	18524.0	15042.5	14829.7
65°	3216.0	3213.8	3308.2	3426.6	4014.6	11100.3	20325.0	23424.8	22740.3	16492.6	16049.4
67.5°	2503.1	2551.3	2645.7	2994.5	3016.4	5809.0	18916.7	26063.9	26050.7	18706.1	17477.6
70°	1930.5	1996.3	2130.1	2639.1	2786.1	3251.1	14154.0	25228.1	25440.8	19695.4	16466.2
72.5°	1239.5	1235.1	1432.5	2132.3	2676.4	2709.3	7827.3	20039.8	20281.2	17839.5	13313.8
75°	693.2	697.6	809.5	1305.3	2494.3	2549.1	3876.3	14290.0	14480.9	13908.3	10229.4
77.5°	272.0	280.8	379.5	686.6	1645.3	2277.1	2303.4	9744.6	9773.1	8619.2	6274.1
80°	109.7	116.3	193.0	425.6	1002.5	1533.4	1645.3	5741.0	5624.8	3336.7	1825.2
82.5°	32.9	35.1	76.8	241.3	524.3	1090.3	1110.0	2202.5	2079.7	717.4	465.1
85°	2.2	2.2	17.5	74.6	186.5	274.2	739.3	717.4	636.2	179.9	206.2
87.5°	0.0	0.0	2.2	2.2	4.4	8.8	79.0	131.6	133.8	32.9	92.1
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°	5883.6	5883.6	5883.6	5883.6	5883.6	5883.6	5883.6	5883.6	5883.6	5883.6	5883.6
2.5°	5903.4	5824.4	5817.8	5756.4	5695.0	5618.2	5528.2	5462.4	5416.4	5335.2	5319.8
5°	5894.6	5789.3	5690.6	5515.1	5319.8	5109.2	4925.0	4753.8	4646.3	4574.0	4543.2
7.5°	5877.0	5743.2	5515.1	5183.8	4856.9	4488.4	4201.0	3937.8	3757.9	3652.6	3606.5
10°	5863.9	5684.0	5313.2	4810.9	4304.1	3795.2	3358.6	2968.1	2751.0	2579.8	2551.3
12.5°	5837.6	5598.4	5054.4	4374.3	3720.6	3044.9	2487.7	2009.5	1678.2	1529.0	1476.4
15°	5811.2	5508.5	4795.5	3913.6	3084.4	2250.8	1575.1	1114.4	886.3	816.1	811.7
17.5°	5806.8	5427.3	4514.7	3477.1	2417.5	1474.2	897.2	721.7	673.5	655.9	655.9
20°	5820.0	5359.3	4238.3	2974.7	1761.6	897.2	669.1	625.2	596.7	581.3	581.3
22.5°	5833.2	5289.1	3972.9	2468.0	1169.3	655.9	590.1	552.8	519.9	502.4	493.6
25°	5841.9	5212.3	3678.9	1959.0	763.4	570.4	517.7	469.5	430.0	408.0	408.0
27.5°	5839.7	5120.2	3382.8	1461.0	592.3	506.8	443.1	392.7	353.2	329.1	331.3
30°	5822.2	5019.3	3075.6	1020.1	517.7	443.1	379.5	326.9	287.4	267.6	265.4
32.5°	5809.0	4911.8	2720.2	717.4	465.1	388.3	322.5	272.0	239.1	223.8	221.6
35°	5793.7	4806.5	2382.4	546.2	419.0	335.6	272.0	230.3	204.0	190.9	190.9
37.5°	5798.1	4696.8	2016.1	469.5	372.9	291.8	232.5	197.4	175.5	162.3	160.1
40°	5866.1	4631.0	1656.3	425.6	331.3	252.3	201.8	171.1	149.2	136.0	133.8
42.5°	6035.0	4633.2	1311.9	392.7	294.0	215.0	175.5	147.0	127.2	111.9	109.7
45°	6372.8	4725.3	1006.9	357.6	254.5	186.5	151.4	125.0	105.3	92.1	89.9
47.5°	6925.6	4999.5	763.4	326.9	221.6	162.3	129.4	105.3	87.7	76.8	74.6
50°	7805.3	5495.3	601.1	289.6	186.5	140.4	109.7	87.7	72.4	61.4	59.2
52.5°	8862.7	6239.0	515.5	256.7	160.1	122.8	94.3	72.4	59.2	50.5	48.3
55°	10078.1	7127.5	476.0	223.8	136.0	105.3	76.8	59.2	48.3	41.7	37.3
57.5°	11192.5	7928.2	473.8	190.9	116.3	89.9	63.6	50.5	41.7	32.9	30.7
60°	12278.4	8597.3	445.3	157.9	100.9	74.6	54.8	41.7	35.1	28.5	26.3
62.5°	13263.4	9141.3	372.9	127.2	85.6	61.4	46.1	37.3	30.7	24.1	24.1
65°	14500.6	9834.6	285.2	103.1	70.2	50.5	39.5	32.9	28.5	21.9	21.9
67.5°	15779.6	10200.9	204.0	85.6	57.0	43.9	35.1	30.7	24.1	19.7	19.7
70°	14292.2	8619.2	147.0	70.2	48.3	37.3	30.7	28.5	24.1	19.7	17.5
72.5°	11161.8	6214.9	109.7	54.8	41.7	35.1	28.5	26.3	21.9	17.5	17.5
75°	8277.0	3624.1	83.4	43.9	32.9	28.5	28.5	26.3	21.9	17.5	15.4
77.5°	4499.4	1263.6	63.6	35.1	26.3	21.9	24.1	24.1	19.7	15.4	13.2
80°	1191.2	346.6	43.9	26.3	21.9	17.5	17.5	21.9	17.5	13.2	13.2
82.5°	346.6	100.9	30.7	21.9	17.5	15.4	15.4	15.4	13.2	11.0	8.8
85°	168.9	37.3	21.9	17.5	15.4	13.2	11.0	11.0	8.8	6.6	6.6
87.5°	74.6	15.4	17.5	15.4	15.4	11.0	8.8	6.6	6.6	4.4	2.2
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)