

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: P642729

Luminaire Tested: GWS-SA6D-740-U-T2R-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642729  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-14)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA6D-740-U-T2R-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (96) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

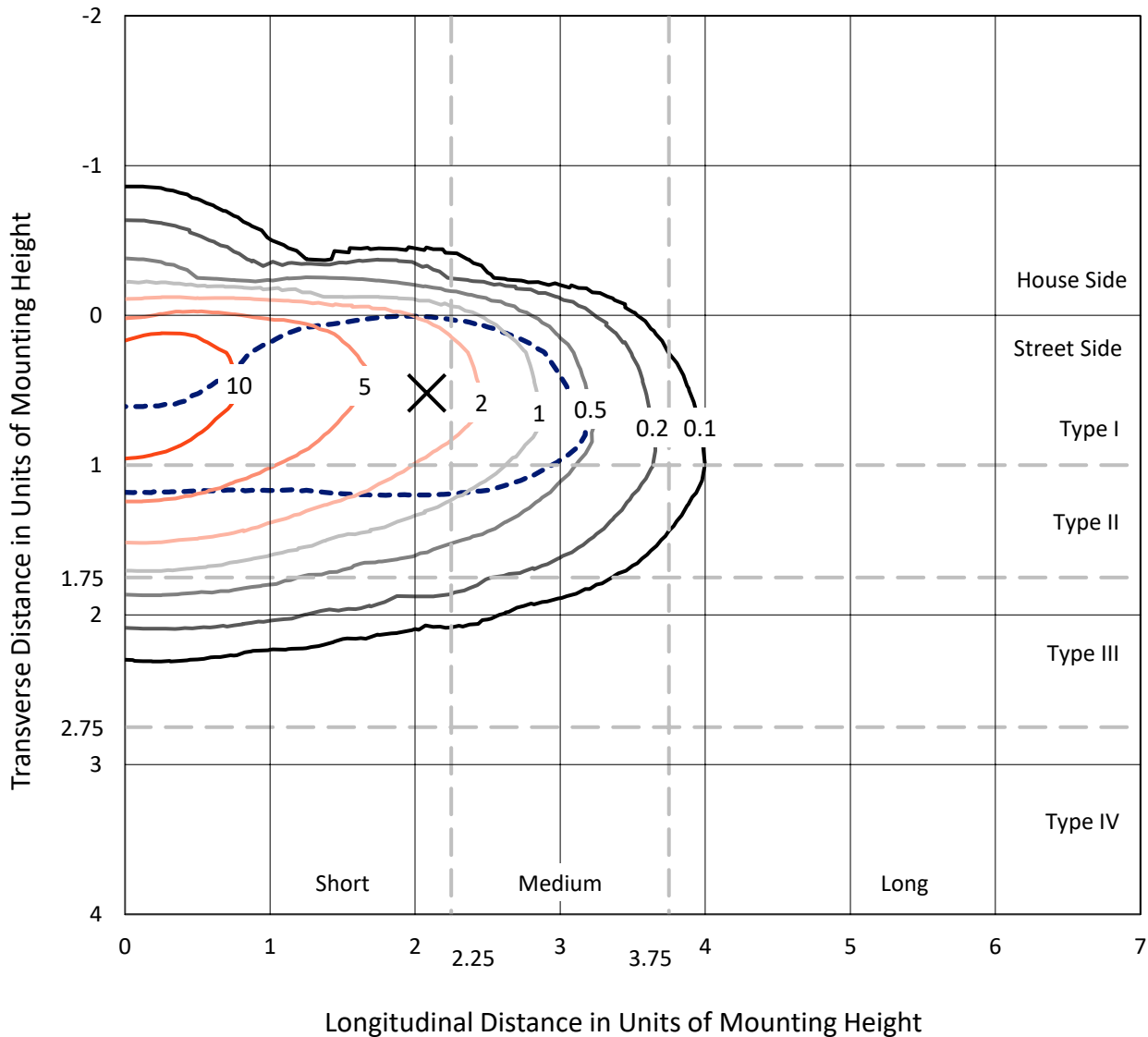
Lumens per Lamp: N/A  
Luminaire Lumens: 28889.5 lumens  
Efficiency: N/A  
Efficacy: 117.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 245.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

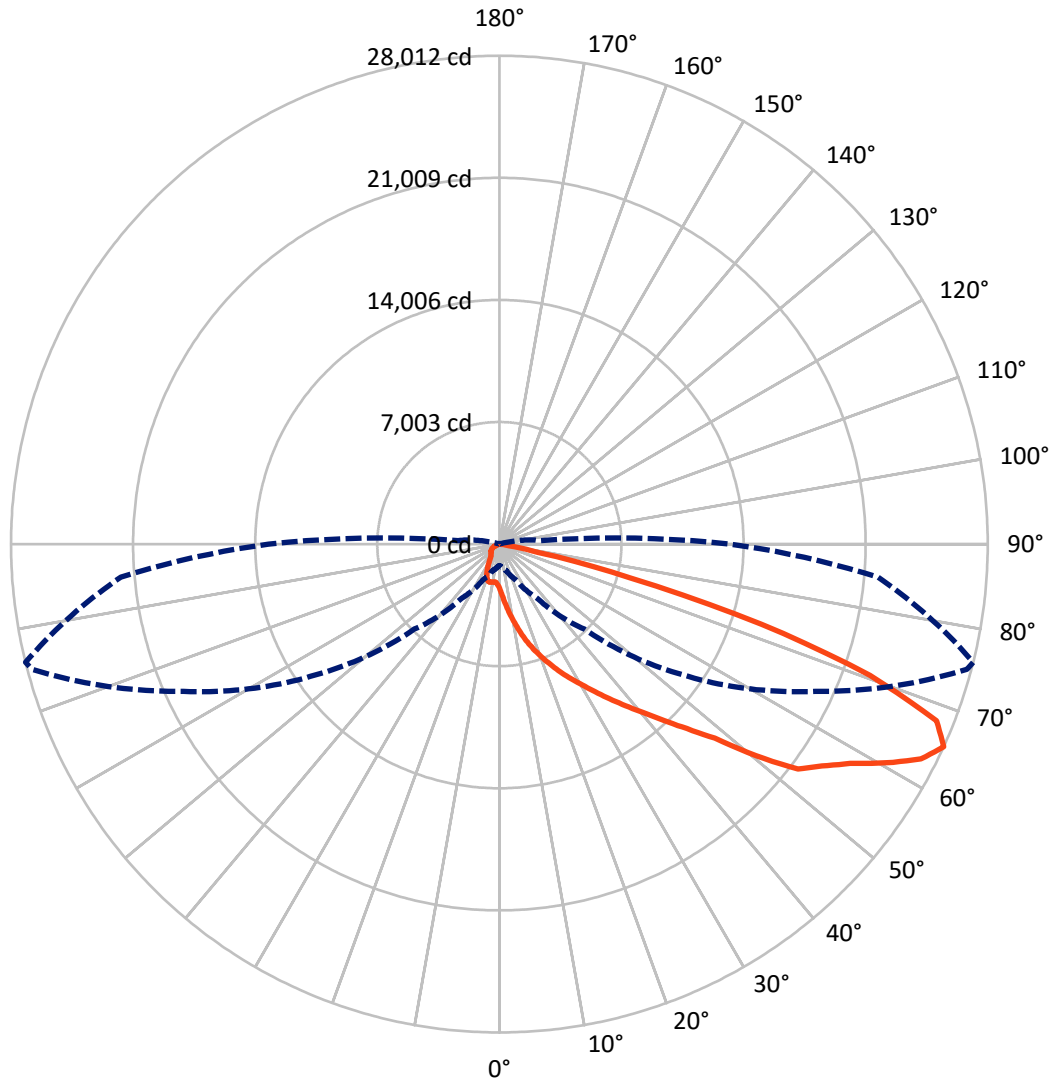
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1597.4	0.0	1597.4
	% Fixture	5.5	0.0	5.5
<b>Street Side</b>	Lumens	27292.1	0.0	27292.1
	% Fixture	94.5	0.0	94.5
<b>Total</b>	Lumens	28889.5	0.0	28889.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	311.2	1.1
10°-20°	1180.7	4.1
20°-30°	2408.8	8.3
30°-40°	4284.2	14.8
40°-50°	6333.0	21.9
50°-60°	7250.9	25.1
60°-70°	5532.1	19.1
70°-80°	1549.6	5.4
80°-90°	39.0	0.1
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°	28889.5	100.0
0°-180°	28889.5	100.0

**Coefficient of Utilization**



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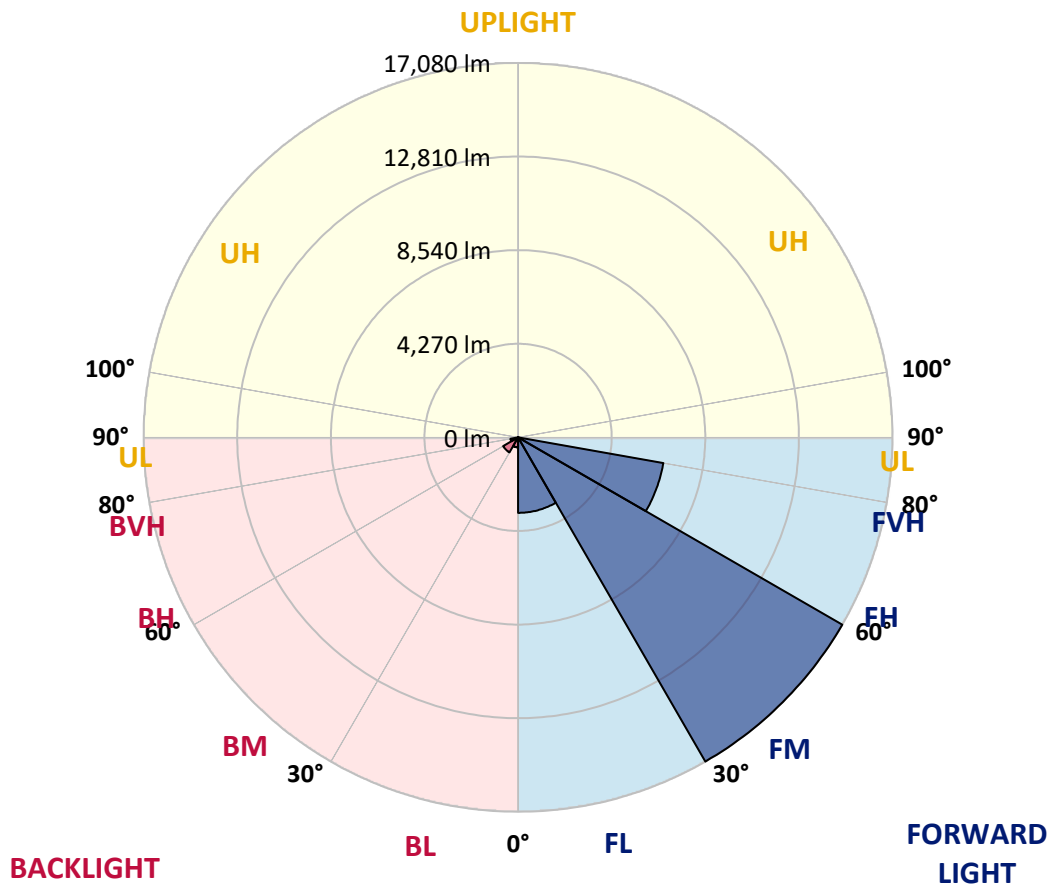
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3444.9	11.9			
FM (30°-60°)	17079.9	59.1			
FH (60°-80°)	6730.5	23.3			G3/7500
FVH (80°-90°)	36.7	0.1			G1/100
BL (0°-30°)	455.8	1.6	B1/500		
BM (30°-60°)	788.2	2.7	B1/1000		
BH (60°-80°)	351.2	1.2	B1/500		G1/500
BVH (80°-90°)	2.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2557.8	2557.8	2557.8	2557.8	2557.8	2557.8	2557.8	2557.8	2557.8	2557.8	2557.8
2.5°	3942.0	4001.0	3954.8	3877.8	3728.8	3585.0	3400.1	3145.9	2943.0	2917.3	2727.3
5°	5323.6	5318.4	5218.3	5118.1	4961.5	4714.9	4342.6	3870.0	3415.5	3377.0	2950.7
7.5°	6145.3	6153.0	6096.5	6019.5	5865.4	5611.2	5223.4	4653.3	3988.2	3911.1	3256.3
10°	6836.1	6833.6	6792.5	6756.5	6617.9	6448.4	6032.3	5405.7	4604.5	4483.8	3597.8
12.5°	7354.9	7372.9	7393.4	7429.4	7370.3	7203.4	6810.5	6127.4	5228.5	5095.0	3988.2
15°	7765.8	7770.9	7848.0	7986.6	8035.4	7948.1	7591.1	6825.9	5844.9	5729.3	4437.6
17.5°	7889.0	7899.3	8030.3	8284.5	8541.3	8590.1	8320.5	7529.5	6450.9	6327.7	4874.2
20°	8148.4	8171.5	8269.1	8492.5	8816.1	9078.0	8972.8	8240.9	7057.0	6895.2	5321.0
22.5°	8965.1	8977.9	8944.5	8972.8	9139.7	9442.7	9506.9	8929.1	7678.5	7506.4	5803.8
25°	10369.8	10374.9	10141.2	9920.4	9794.5	9851.0	9992.3	9563.4	8294.8	8125.3	6253.2
27.5°	11828.4	11846.4	11566.5	11191.5	10742.1	10485.3	10444.2	10143.8	8916.3	8728.8	6697.5
30°	13202.3	13202.3	12907.0	12449.9	11849.0	11348.2	11052.9	10729.3	9581.4	9375.9	7152.0
32.5°	14437.6	14427.3	14049.8	13554.2	12960.9	12411.4	11789.9	11340.5	10321.0	10092.4	7675.9
35°	15457.1	15431.4	15002.5	14527.4	13893.1	13484.8	12791.4	11997.9	11122.2	10893.7	8215.2
37.5°	16227.5	16199.2	15806.3	15303.0	14714.9	14450.4	13870.0	12786.3	11967.1	11759.1	8813.5
40°	16646.1	16589.6	16317.4	15942.4	15449.4	15218.2	14976.8	13764.7	12960.9	12701.6	9519.7
42.5°	16769.3	16702.6	16522.8	16348.2	16050.3	15868.0	16127.3	14869.0	14052.4	13828.9	10326.1
45°	16404.7	16366.2	16350.8	16476.6	16530.5	16581.9	17221.3	16091.4	15256.8	15087.3	11340.5
47.5°	15526.4	15516.1	15652.2	16176.1	16746.2	17288.1	18410.3	17598.8	16818.1	16635.8	12758.1
50°	13903.4	14008.7	14388.8	15308.1	16448.3	17688.7	19522.3	19689.2	19345.1	19078.0	14607.0
52.5°	11366.2	11569.1	12421.6	13818.7	15457.1	17575.7	20035.9	21363.6	21715.4	21438.1	15932.2
55°	8918.8	9108.9	9869.0	11641.0	13826.4	16715.4	20059.0	21941.4	22709.2	22452.4	16828.4
57.5°	6643.5	6818.2	7509.0	9203.9	11607.6	15023.1	19509.5	22262.4	23888.0	23723.6	18243.4
60°	4342.6	4514.6	5138.7	6620.4	9003.6	12557.7	18156.1	22195.6	25493.0	25477.6	19982.0
62.5°	2408.8	2544.9	2996.9	4152.5	6284.0	9725.2	16029.7	21525.4	27046.7	27144.3	21414.9
65°	1232.7	1320.0	1594.8	2283.0	3803.3	6895.2	13233.1	19989.7	27765.7	28012.3	21792.4
67.5°	806.4	834.6	901.4	1186.4	2036.5	4337.4	9958.9	17526.9	26753.9	27041.5	20526.4
70°	654.9	678.0	716.5	791.0	1050.3	2303.5	6540.8	13998.4	22354.8	22550.0	16345.6
72.5°	480.2	511.0	585.5	634.3	757.6	1263.5	3402.7	9188.5	15351.8	15695.9	10272.2
75°	354.4	372.4	434.0	500.8	618.9	798.7	1302.0	4830.5	7927.6	7727.3	4314.3
77.5°	213.1	226.0	277.3	321.0	441.7	498.2	454.5	1784.8	2411.4	2267.6	1042.6
80°	105.3	118.1	182.3	241.4	282.5	200.3	190.0	498.2	536.7	536.7	261.9
82.5°	36.0	46.2	97.6	159.2	138.7	77.0	89.9	128.4	143.8	151.5	77.0
85°	0.0	0.0	23.1	46.2	20.5	10.3	23.1	28.2	36.0	38.5	25.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	7.7	10.3	10.3
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°	2557.8	2557.8	2557.8	2557.8	2557.8	2557.8	2557.8	2557.8	2557.8	2557.8	2557.8
2.5°	2624.5	2503.8	2321.5	2157.2	2031.3	1913.2	1823.3	1751.4	1738.6	1697.5	1702.6
5°	2742.7	2524.4	2188.0	1928.6	1746.3	1623.0	1520.3	1443.2	1409.9	1376.5	1350.8
7.5°	2925.0	2609.1	2136.6	1820.7	1607.6	1417.6	1258.3	1129.9	1068.3	1029.8	1004.1
10°	3148.4	2727.3	2139.2	1756.5	1440.7	1150.5	932.2	791.0	724.2	703.6	701.1
12.5°	3415.5	2876.2	2159.7	1651.3	1199.3	855.2	690.8	626.6	606.1	588.1	588.1
15°	3698.0	3043.1	2159.7	1458.7	914.2	667.7	598.4	557.3	531.6	521.3	516.2
17.5°	3995.9	3199.8	2108.4	1194.1	701.1	588.1	531.6	493.1	472.5	457.1	452.0
20°	4314.3	3348.7	1980.0	914.2	600.9	526.4	472.5	434.0	413.5	398.0	398.0
22.5°	4637.9	3487.4	1772.0	703.6	531.6	467.4	416.0	380.1	359.5	344.1	344.1
25°	4938.4	3579.9	1504.9	580.4	480.2	416.0	369.8	333.8	310.7	300.5	295.3
27.5°	5218.3	3638.9	1209.5	511.0	431.4	372.4	323.6	290.2	272.2	264.5	259.4
30°	5508.5	3654.3	924.5	464.8	390.3	328.7	282.5	256.8	241.4	231.1	231.1
32.5°	5790.9	3636.4	706.2	426.3	354.4	290.2	251.7	228.6	215.7	208.0	205.4
35°	6078.6	3554.2	572.7	392.9	318.4	254.2	223.4	205.4	197.7	187.5	187.5
37.5°	6391.9	3443.8	498.2	359.5	282.5	228.6	200.3	187.5	177.2	169.5	166.9
40°	6782.2	3315.3	457.1	331.3	249.1	205.4	179.8	166.9	159.2	151.5	148.9
42.5°	7244.5	3189.5	436.6	300.5	223.4	182.3	161.8	146.4	138.7	128.4	125.8
45°	7899.3	3161.3	413.5	267.1	200.3	164.4	141.2	125.8	115.6	107.9	105.3
47.5°	8952.2	3240.9	374.9	231.1	177.2	143.8	120.7	107.9	95.0	87.3	82.2
50°	9997.4	3220.3	336.4	200.3	156.7	123.3	102.7	89.9	77.0	69.3	66.8
52.5°	10567.5	3122.7	300.5	177.2	136.1	105.3	87.3	71.9	64.2	56.5	53.9
55°	11083.7	3084.2	264.5	154.1	115.6	92.4	71.9	59.1	53.9	46.2	43.7
57.5°	12095.5	3174.1	233.7	133.5	100.2	79.6	61.6	48.8	43.7	36.0	33.4
60°	13153.5	3184.4	200.3	115.6	87.3	66.8	48.8	38.5	33.4	25.7	23.1
62.5°	13705.7	2925.0	164.4	97.6	71.9	56.5	41.1	30.8	25.7	15.4	15.4
65°	13243.4	2365.2	138.7	79.6	56.5	43.7	30.8	23.1	15.4	7.7	2.6
67.5°	11720.6	1682.1	115.6	64.2	41.1	30.8	23.1	15.4	2.6	0.0	0.0
70°	8582.4	960.4	89.9	46.2	30.8	20.5	15.4	7.7	0.0	0.0	0.0
72.5°	5274.8	513.6	66.8	30.8	23.1	15.4	12.8	5.1	0.0	0.0	0.0
75°	2000.5	246.5	41.1	20.5	18.0	12.8	7.7	2.6	0.0	0.0	0.0
77.5°	541.9	120.7	23.1	15.4	12.8	7.7	5.1	0.0	0.0	0.0	0.0
80°	141.2	56.5	15.4	10.3	7.7	5.1	0.0	0.0	0.0	0.0	0.0
82.5°	48.8	25.7	7.7	7.7	5.1	2.6	0.0	0.0	0.0	0.0	0.0
85°	20.5	10.3	5.1	5.1	2.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.7	2.6	2.6	2.6	2.6	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)