

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: P642230

Luminaire Tested: GWS-SA6C-740-U-T2-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642230  
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-SA6C-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**

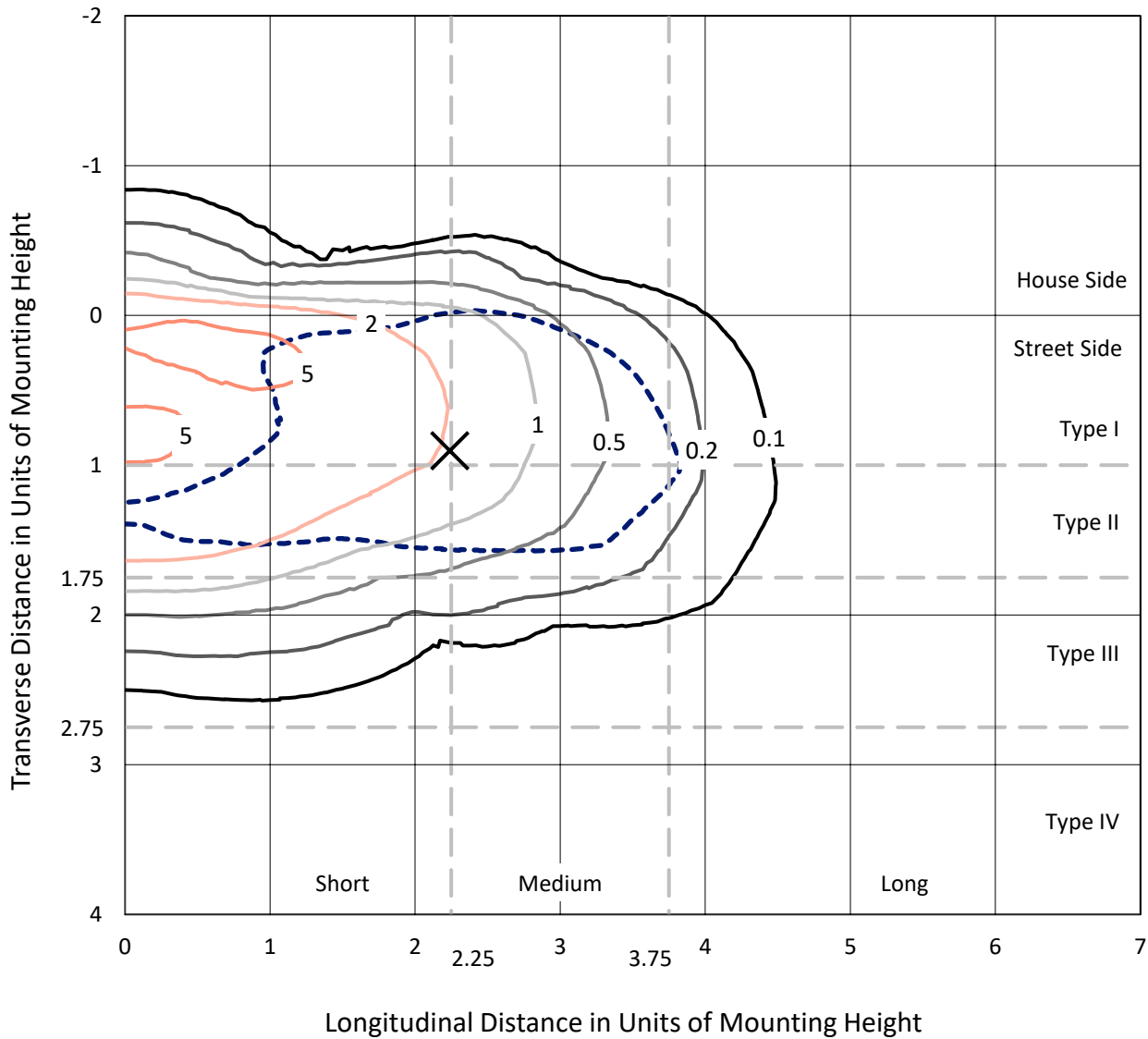
Lumens per Lamp: N/A  
Luminaire Lumens: 21269.3 lumens  
Efficiency: N/A  
Efficacy: 112.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 189.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

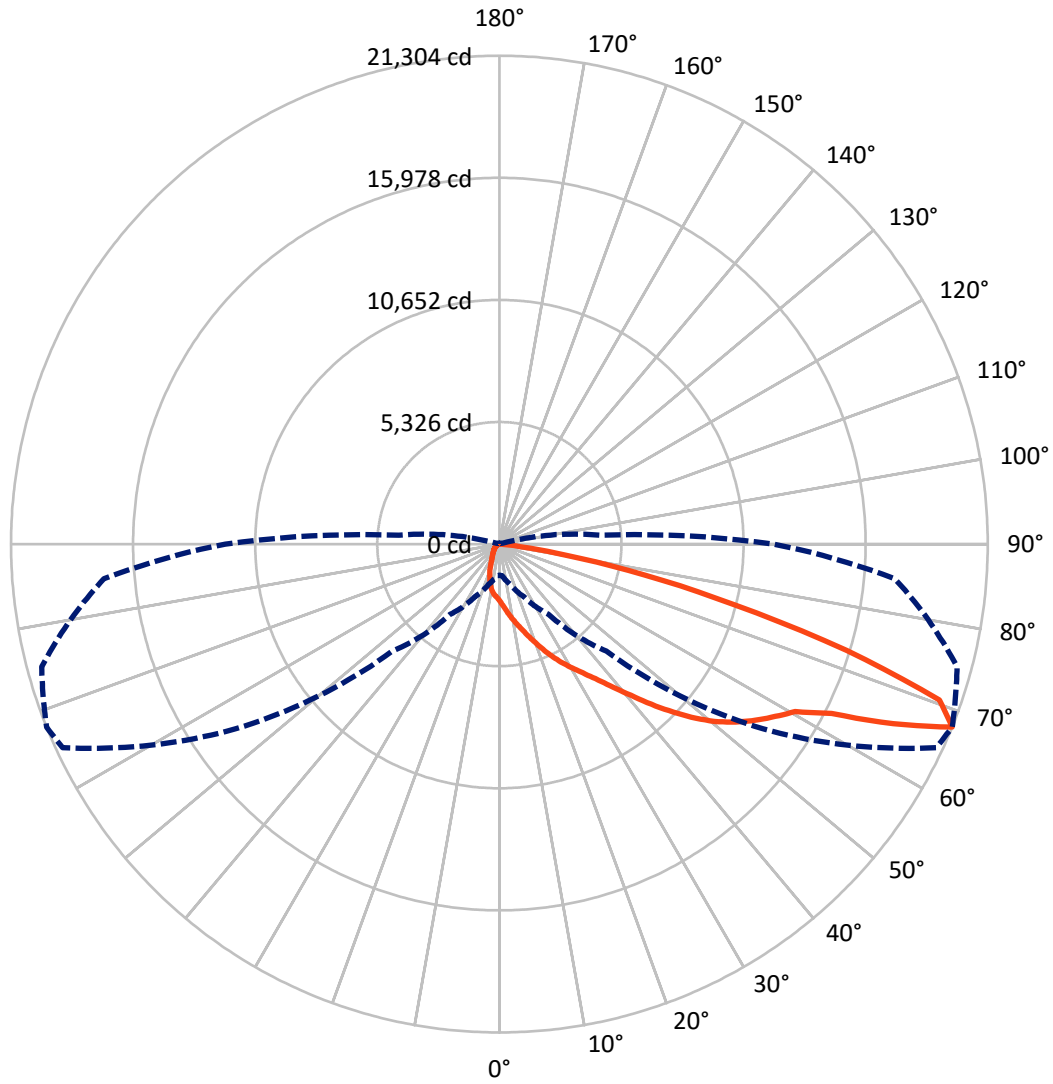
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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	1535.9	0.0	1535.9
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	19733.4	0.0	19733.4
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	21269.3	0.0	21269.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	241.4	1.1
10°-20°	693.3	3.3
20°-30°	1191.3	5.6
30°-40°	2071.3	9.7
40°-50°	3614.2	17.0
50°-60°	5451.2	25.6
60°-70°	5466.1	25.7
70°-80°	2411.6	11.3
80°-90°	128.8	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°	21269.3	100.0
0°-180°	21269.3	100.0

**Coefficient of Utilization**



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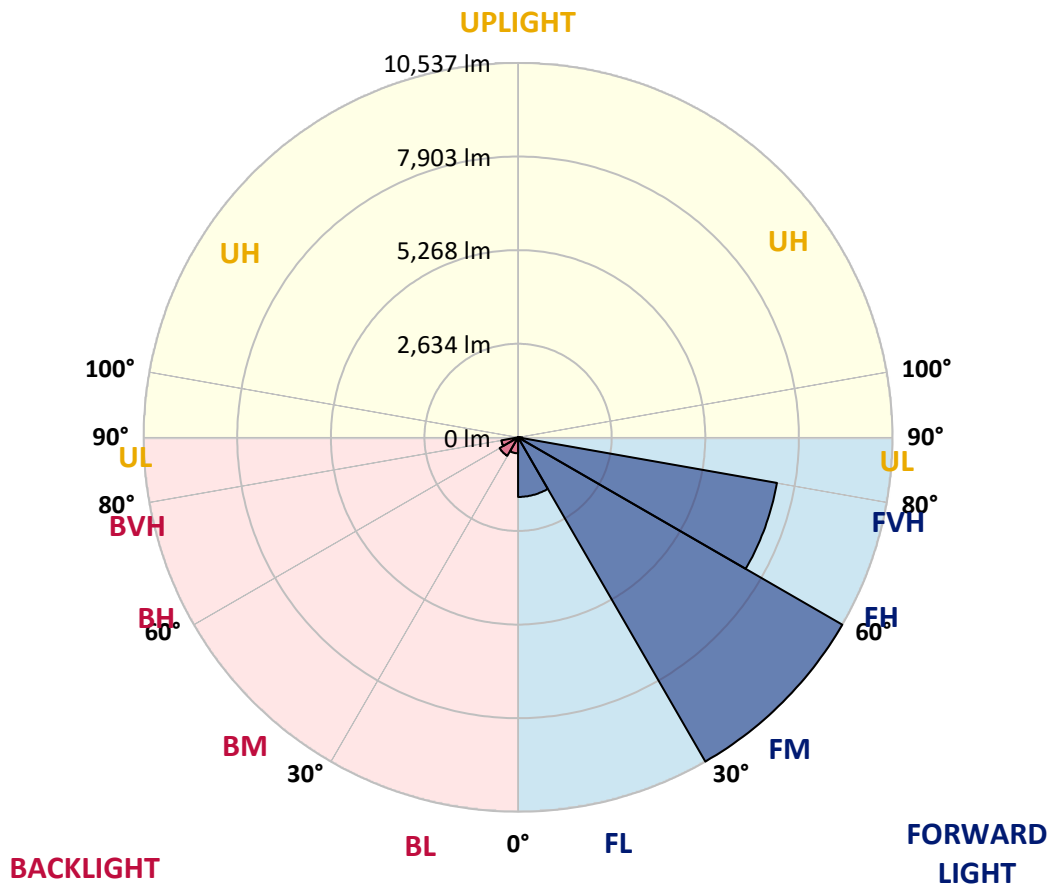
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1676.7	7.9			
FM (30°-60°)	10536.8	49.5			
FH (60°-80°)	7398.4	34.8			G3/7500
FVH (80°-90°)	121.5	0.6			G2/225
BL (0°-30°)	449.3	2.1	B1/500		
BM (30°-60°)	600.0	2.8	B1/1000		
BH (60°-80°)	479.3	2.3	B1/500		G1/500
BVH (80°-90°)	7.3	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°	68°	75°	85°
0°	2475.2	2475.2	2475.2	2475.2	2475.2	2475.2	2475.2	2475.2	2475.2	2475.2	2475.2
2.5°	2882.3	2900.6	2882.3	2886.4	2833.5	2809.0	2756.1	2682.8	2664.5	2617.7	2546.4
5°	3234.5	3250.7	3232.4	3228.4	3167.3	3122.5	3035.0	2908.8	2872.1	2780.5	2640.1
7.5°	3425.8	3436.0	3442.1	3452.3	3429.9	3393.2	3313.8	3157.1	3118.4	2969.8	2772.4
10°	3446.2	3454.3	3484.8	3545.9	3590.7	3613.1	3568.3	3423.8	3362.7	3218.2	2935.2
12.5°	3389.2	3401.4	3450.2	3552.0	3676.2	3790.2	3818.7	3692.5	3637.5	3452.3	3126.6
15°	3313.8	3324.0	3391.2	3529.6	3716.9	3926.5	4044.6	3989.6	3928.6	3735.2	3338.3
17.5°	3197.8	3212.1	3305.7	3493.0	3735.2	4034.4	4288.9	4307.2	4264.4	4054.8	3572.4
20°	3132.7	3142.9	3226.3	3419.7	3723.0	4113.8	4516.8	4689.9	4643.0	4423.2	3841.0
22.5°	3187.6	3195.8	3250.7	3401.4	3682.3	4158.6	4728.5	5072.5	5046.1	4818.1	4124.0
25°	3476.7	3503.1	3470.6	3497.0	3700.6	4183.0	4899.5	5455.2	5461.3	5231.3	4417.1
27.5°	4062.9	4028.3	3951.0	3818.7	3843.1	4248.2	5046.1	5815.5	5868.4	5634.3	4677.7
30°	4659.3	4639.0	4592.2	4386.6	4215.6	4392.7	5170.2	6183.9	6267.4	6031.3	4909.7
32.5°	5329.0	5349.4	5265.9	5019.6	4728.5	4685.8	5298.5	6534.1	6690.8	6481.1	5182.5
35°	6129.0	6135.1	5970.2	5697.5	5367.7	5170.2	5528.5	6920.8	7209.9	7055.2	5546.8
37.5°	6908.6	6945.2	6855.7	6426.2	6133.1	5772.8	5909.1	7417.5	7824.6	7763.5	6004.8
40°	7598.6	7655.6	7627.1	7211.9	6827.2	6523.9	6499.5	7999.6	8567.5	8636.8	6609.4
42.5°	8148.2	8184.9	8207.3	7912.1	7572.2	7401.2	7228.2	8675.4	9444.9	9727.8	7350.3
45°	8728.4	8740.6	8787.4	8587.9	8290.7	8305.0	8089.2	9495.8	10369.0	10936.9	8201.2
47.5°	9467.3	9508.0	9485.6	9275.9	9007.2	9168.0	8978.7	10340.5	11280.9	12227.4	9072.4
50°	10367.0	10409.7	10389.4	10145.1	9845.9	9913.0	9795.0	11160.8	12160.3	13444.7	9797.0
52.5°	10831.1	10865.7	11118.1	11228.0	11071.3	10643.8	10491.1	12062.6	12903.2	14446.2	10462.6
55°	10607.2	10631.6	11181.2	11645.3	12219.3	11791.8	11191.3	12758.7	13558.7	15227.8	10957.3
57.5°	9678.9	9811.3	10558.3	11344.0	12551.1	12925.6	12327.2	13515.9	14189.7	15771.3	11443.8
60°	7775.7	7769.6	8840.3	10250.9	11903.8	13237.1	13931.2	14539.8	14822.7	16188.6	12095.1
62.5°	4297.0	4335.7	5760.6	7619.0	10104.4	12431.0	15134.2	16308.7	16265.9	16917.3	13114.9
65°	2139.3	2216.7	2990.2	4364.2	6723.4	10273.3	15341.8	19007.8	18885.7	18633.3	15221.7
67.5°	1357.7	1388.2	1815.7	2536.3	3737.2	6603.3	14049.2	21020.9	21303.9	20668.8	17312.2
70°	879.3	930.2	1262.0	1734.3	2255.4	3403.4	10291.6	19716.2	20365.5	20444.9	16009.5
72.5°	478.3	515.0	806.1	1237.6	1628.4	1701.7	5780.9	14796.3	15840.5	17342.7	12524.6
75°	272.8	299.2	441.7	840.7	1194.9	1036.1	2562.7	9904.9	10570.5	12394.3	8974.7
77.5°	164.9	187.3	248.3	409.1	749.1	692.1	968.9	6029.2	6452.6	7395.1	4710.2
80°	75.3	89.6	156.7	225.9	409.1	327.7	370.5	2811.1	2902.7	3035.0	1559.2
82.5°	34.6	40.7	71.2	134.3	232.1	189.3	142.5	649.3	914.0	865.1	396.9
85°	4.1	4.1	26.5	55.0	65.1	48.9	59.0	146.6	185.2	260.5	114.0
87.5°	0.0	0.0	2.0	2.0	4.1	6.1	12.2	18.3	26.5	42.7	28.5
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°	2475.2	2475.2	2475.2	2475.2	2475.2	2475.2	2475.2	2475.2	2475.2	2475.2	2475.2
2.5°	2513.9	2456.9	2406.0	2330.7	2279.8	2222.8	2184.1	2137.3	2119.0	2104.7	2084.4
5°	2570.9	2479.3	2355.1	2216.7	2102.7	1994.8	1895.1	1829.9	1772.9	1764.8	1736.3
7.5°	2664.5	2528.1	2318.5	2092.5	1899.2	1720.0	1579.6	1465.6	1408.6	1390.3	1357.7
10°	2788.7	2601.4	2263.5	1917.5	1638.6	1424.9	1266.1	1137.9	1048.3	1015.7	991.3
12.5°	2927.1	2668.6	2176.0	1701.7	1384.2	1139.9	938.4	802.0	745.0	724.6	706.3
15°	3085.9	2731.7	2037.6	1485.9	1135.8	838.6	696.2	637.1	612.7	606.6	600.5
17.5°	3238.5	2772.4	1872.7	1262.0	873.2	651.4	584.2	561.8	555.7	549.6	545.5
20°	3411.5	2800.9	1679.3	1050.3	677.8	551.6	519.1	502.8	490.6	478.3	476.3
22.5°	3588.6	2800.9	1469.7	842.7	567.9	494.6	458.0	427.5	405.1	392.9	388.8
25°	3757.6	2762.2	1262.0	673.8	500.7	439.7	392.9	358.3	327.7	313.5	309.4
27.5°	3877.7	2662.5	1080.9	569.9	453.9	390.8	333.8	295.2	270.7	256.5	254.4
30°	3953.0	2513.9	914.0	508.9	413.2	339.9	282.9	250.4	232.1	221.9	217.8
32.5°	4010.0	2330.7	765.4	466.1	374.5	295.2	246.3	219.8	203.6	195.4	193.4
35°	4124.0	2157.7	655.4	427.5	333.8	258.5	215.8	195.4	183.2	173.0	171.0
37.5°	4282.8	2013.1	567.9	392.9	295.2	230.0	195.4	177.1	166.9	156.7	154.7
40°	4516.8	1921.5	502.8	358.3	260.5	207.6	179.1	162.8	148.6	138.4	136.4
42.5°	4877.1	1878.8	460.0	323.6	230.0	187.3	164.9	144.5	130.3	120.1	118.1
45°	5306.6	1901.2	423.4	289.0	209.7	173.0	146.6	126.2	112.0	101.8	99.7
47.5°	5766.7	1980.6	392.9	256.5	189.3	158.8	130.3	107.9	95.7	85.5	83.5
50°	6247.0	2110.8	366.4	225.9	173.0	142.5	112.0	93.6	81.4	73.3	71.2
52.5°	6664.3	2287.9	339.9	203.6	158.8	126.2	97.7	81.4	69.2	61.1	59.0
55°	7063.3	2454.9	319.6	183.2	142.5	109.9	85.5	69.2	59.0	50.9	48.9
57.5°	7496.9	2631.9	295.2	164.9	128.2	97.7	75.3	59.0	50.9	42.7	40.7
60°	8127.9	2894.5	258.5	150.6	112.0	85.5	65.1	52.9	44.8	34.6	32.6
62.5°	9037.8	3372.9	217.8	130.3	95.7	73.3	55.0	44.8	36.6	28.5	24.4
65°	10739.5	4187.1	179.1	107.9	77.4	61.1	46.8	36.6	28.5	20.4	18.3
67.5°	11964.9	4398.8	144.5	87.5	63.1	46.8	38.7	28.5	20.4	14.2	12.2
70°	10460.6	3159.1	112.0	71.2	52.9	36.6	30.5	22.4	14.2	10.2	8.1
72.5°	7881.6	2064.0	83.5	55.0	40.7	30.5	22.4	18.3	12.2	8.1	6.1
75°	5555.0	1192.8	61.1	40.7	28.5	22.4	18.3	14.2	10.2	6.1	6.1
77.5°	2847.7	492.6	42.7	28.5	20.4	14.2	12.2	8.1	8.1	6.1	4.1
80°	865.1	162.8	24.4	18.3	14.2	10.2	6.1	6.1	6.1	4.1	2.0
82.5°	197.4	52.9	14.2	14.2	10.2	8.1	6.1	2.0	2.0	0.0	0.0
85°	50.9	16.3	12.2	10.2	10.2	8.1	4.1	2.0	0.0	0.0	0.0
87.5°	18.3	10.2	10.2	10.2	8.1	6.1	4.1	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)