

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: P636290

Luminaire Tested: GWS-SA3F-740-U-T2-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636290  
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-SA3F-740-U-T2-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (48) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

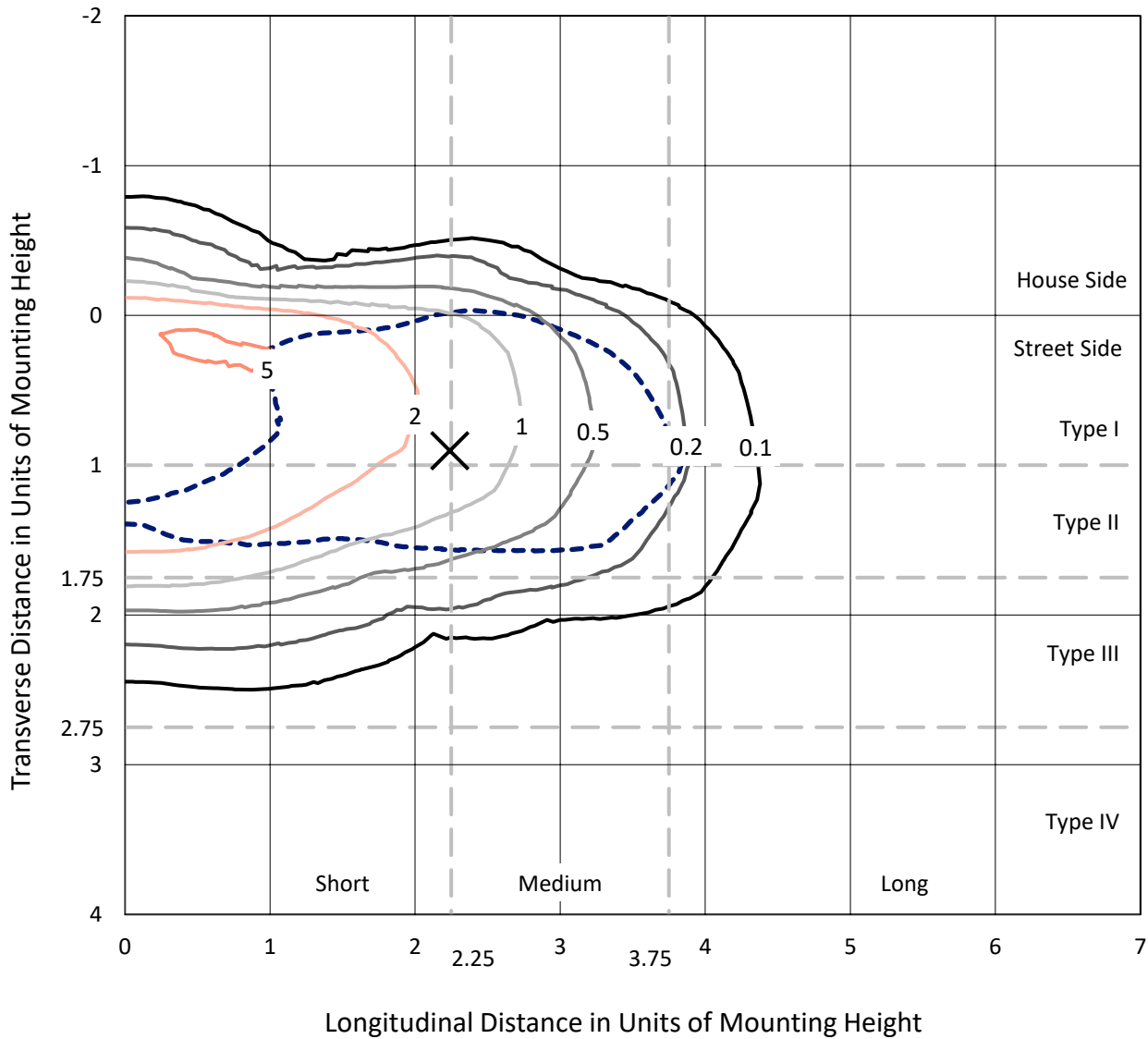
Lumens per Lamp: N/A  
Luminaire Lumens: 18314.9 lumens  
Efficiency: N/A  
Efficacy: 100.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 183.2  
Input Voltage (V): 120  
Input Current (Ain): 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

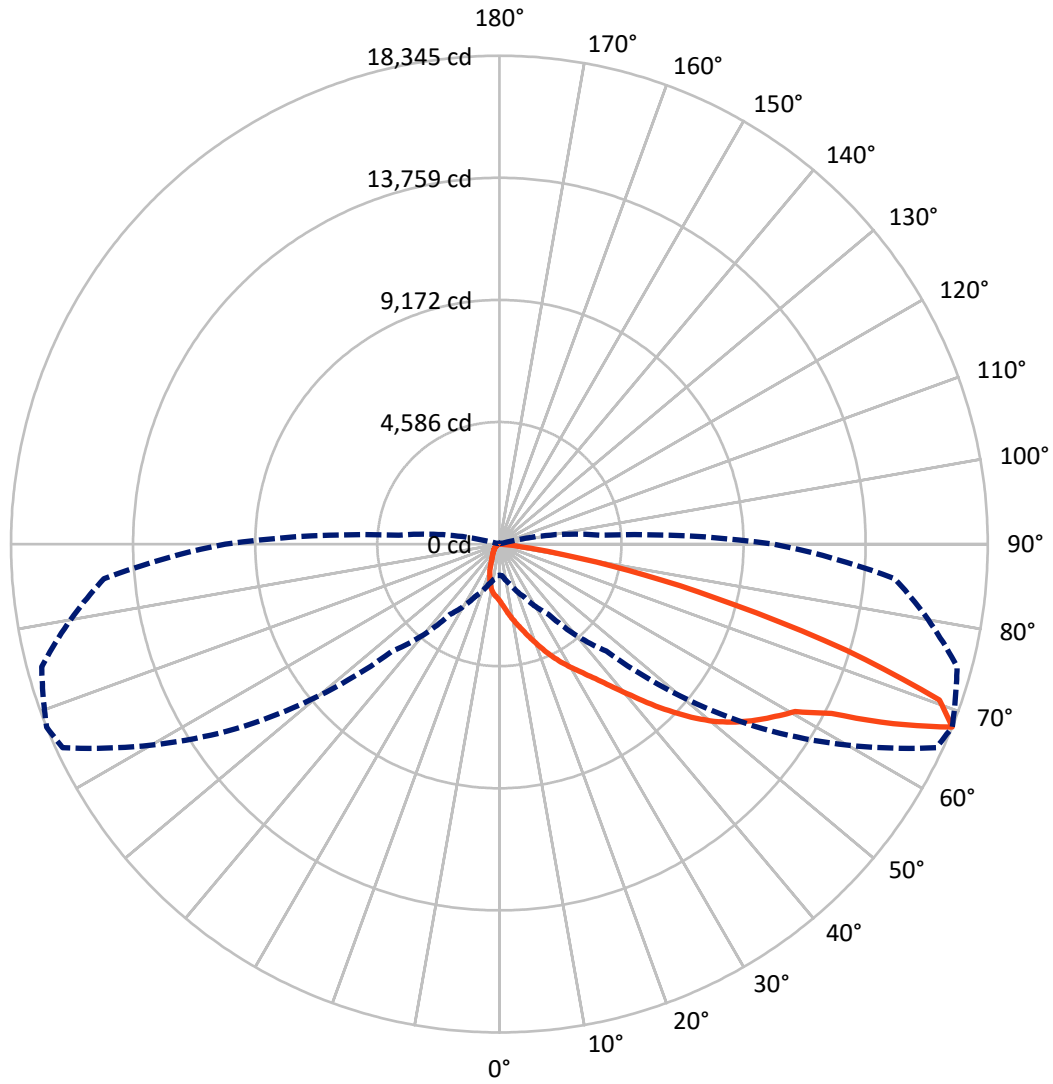
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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	1322.6	0.0	1322.6
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	16992.4	0.0	16992.4
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	18314.9	0.0	18314.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	207.9	1.1
10°-20°	597.0	3.3
20°-30°	1025.9	5.6
30°-40°	1783.6	9.7
40°-50°	3112.2	17.0
50°-60°	4694.0	25.6
60°-70°	4706.9	25.7
70°-80°	2076.7	11.3
80°-90°	110.9	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°	18314.9	100.0
0°-180°	18314.9	100.0

**Coefficient of Utilization**



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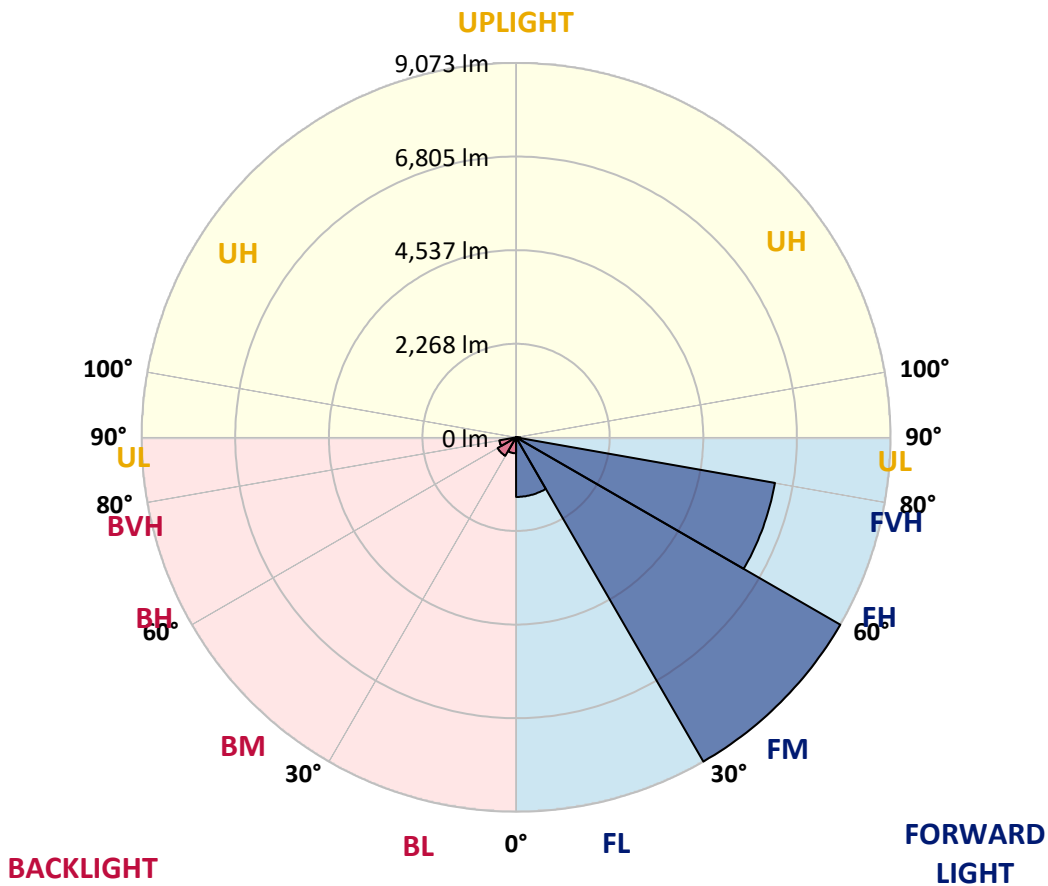
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1443.8	7.9			
FM (30°-60°)	9073.2	49.5			
FH (60°-80°)	6370.8	34.8			G3/7500
FVH (80°-90°)	104.7	0.6			G2/225
BL (0°-30°)	386.9	2.1	B1/500		
BM (30°-60°)	516.6	2.8	B1/1000		
BH (60°-80°)	412.7	2.3	B1/500		G1/500
BVH (80°-90°)	6.3	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°	2131.4	2131.4	2131.4	2131.4	2131.4	2131.4	2131.4	2131.4	2131.4	2131.4	2131.4
2.5°	2481.9	2497.7	2481.9	2485.5	2439.9	2418.8	2373.3	2310.2	2294.4	2254.1	2192.7
5°	2785.2	2799.2	2783.4	2779.9	2727.3	2688.8	2613.4	2504.7	2473.2	2394.3	2273.4
7.5°	2949.9	2958.7	2964.0	2972.7	2953.4	2921.9	2853.5	2718.6	2685.3	2557.3	2387.3
10°	2967.5	2974.5	3000.8	3053.4	3091.9	3111.2	3072.6	2948.2	2895.6	2771.2	2527.5
12.5°	2918.4	2928.9	2971.0	3058.6	3165.5	3263.7	3288.2	3179.6	3132.2	2972.7	2692.3
15°	2853.5	2862.3	2920.1	3039.3	3200.6	3381.1	3482.8	3435.5	3382.9	3216.4	2874.6
17.5°	2753.6	2765.9	2846.5	3007.8	3216.4	3474.0	3693.1	3708.9	3672.1	3491.6	3076.1
20°	2697.5	2706.3	2778.2	2944.7	3205.8	3542.4	3889.4	4038.4	3998.1	3808.8	3307.5
22.5°	2744.9	2751.9	2799.2	2928.9	3170.8	3580.9	4071.7	4367.9	4345.2	4148.8	3551.1
25°	2993.8	3016.5	2988.5	3011.3	3186.6	3602.0	4219.0	4697.5	4702.7	4504.7	3803.5
27.5°	3498.6	3468.8	3402.2	3288.2	3309.3	3658.1	4345.2	5007.7	5053.3	4851.7	4027.9
30°	4012.1	3994.6	3954.3	3777.3	3630.0	3782.5	4452.1	5325.0	5396.8	5193.5	4227.7
32.5°	4588.8	4606.3	4534.5	4322.4	4071.7	4034.9	4562.5	5626.4	5761.4	5580.9	4462.6
35°	5277.6	5282.9	5140.9	4906.1	4622.1	4452.1	4760.6	5959.5	6208.4	6075.2	4776.3
37.5°	5949.0	5980.5	5903.4	5533.5	5281.1	4970.9	5088.3	6387.2	6737.7	6685.1	5170.7
40°	6543.2	6592.2	6567.7	6210.1	5878.8	5617.7	5596.6	6888.5	7377.5	7437.1	5691.3
42.5°	7016.4	7048.0	7067.2	6813.1	6520.4	6373.1	6224.1	7470.4	8132.9	8376.6	6329.3
45°	7515.9	7526.5	7566.8	7395.0	7139.1	7151.4	6965.6	8176.8	8928.7	9417.7	7062.0
47.5°	8152.2	8187.3	8168.0	7987.4	7756.1	7894.6	7731.5	8904.2	9713.9	10529.0	7812.2
50°	8926.9	8963.8	8946.2	8735.9	8478.2	8536.1	8434.4	9610.5	10471.1	11577.2	8436.2
52.5°	9326.6	9356.4	9573.7	9668.4	9533.4	9165.3	9033.9	10387.0	11110.9	12439.5	9009.3
55°	9133.8	9154.8	9628.1	10027.7	10522.0	10153.9	9636.8	10986.5	11675.3	13112.6	9435.3
57.5°	8334.5	8448.4	9091.7	9768.3	10807.7	11130.2	10614.9	11638.5	12218.7	13580.6	9854.2
60°	6695.6	6690.4	7612.4	8827.0	10250.3	11398.4	11996.1	12520.2	12763.8	13939.9	10415.1
62.5°	3700.1	3733.4	4960.4	6560.7	8700.8	10704.3	13032.0	14043.3	14006.5	14567.4	11293.2
65°	1842.2	1908.8	2574.8	3758.0	5789.5	8846.3	13210.8	16367.5	16262.4	16045.0	13107.3
67.5°	1169.1	1195.4	1563.5	2184.0	3218.1	5686.0	12097.7	18101.0	18344.7	17797.8	14907.5
70°	757.2	801.0	1086.7	1493.4	1942.1	2930.7	8862.1	16977.5	17536.6	17605.0	13785.7
72.5°	411.9	443.5	694.1	1065.7	1402.2	1465.3	4977.9	12741.0	13640.2	14933.7	10784.9
75°	234.9	257.7	380.4	723.9	1028.9	892.2	2206.8	8529.1	9102.2	10672.7	7728.0
77.5°	142.0	161.3	213.8	352.3	645.0	595.9	834.3	5191.8	5556.3	6367.9	4055.9
80°	64.9	77.1	135.0	194.6	352.3	282.2	319.0	2420.6	2499.5	2613.4	1342.6
82.5°	29.8	35.1	61.3	115.7	199.8	163.0	122.7	559.1	787.0	744.9	341.8
85°	3.5	3.5	22.8	47.3	56.1	42.1	50.8	126.2	159.5	224.4	98.2
87.5°	0.0	0.0	1.8	1.8	3.5	5.3	10.5	15.8	22.8	36.8	24.5
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°	2131.4	2131.4	2131.4	2131.4	2131.4	2131.4	2131.4	2131.4	2131.4	2131.4	2131.4
2.5°	2164.7	2115.6	2071.8	2006.9	1963.1	1914.0	1880.7	1840.4	1824.7	1812.4	1794.9
5°	2213.8	2134.9	2028.0	1908.8	1810.6	1717.7	1631.8	1575.8	1526.7	1519.7	1495.1
7.5°	2294.4	2177.0	1996.4	1801.9	1635.4	1481.1	1360.2	1262.0	1212.9	1197.2	1169.1
10°	2401.3	2240.1	1949.1	1651.1	1411.0	1227.0	1090.2	979.8	902.7	874.6	853.6
12.5°	2520.5	2297.9	1873.7	1465.3	1191.9	981.6	808.0	690.6	641.5	624.0	608.2
15°	2657.2	2352.2	1754.5	1279.5	978.1	722.1	599.5	548.6	527.6	522.3	517.1
17.5°	2788.7	2387.3	1612.6	1086.7	751.9	560.9	503.0	483.8	478.5	473.3	469.7
20°	2937.7	2411.8	1446.0	904.4	583.7	475.0	447.0	432.9	422.4	411.9	410.2
22.5°	3090.2	2411.8	1265.5	725.7	489.0	425.9	394.4	368.1	348.8	338.3	334.8
25°	3235.6	2378.5	1086.7	580.2	431.2	378.6	338.3	308.5	282.2	269.9	266.4
27.5°	3339.1	2292.6	930.7	490.8	390.9	336.5	287.5	254.2	233.1	220.9	219.1
30°	3403.9	2164.7	787.0	438.2	355.8	292.7	243.6	215.6	199.8	191.1	187.5
32.5°	3453.0	2006.9	659.0	401.4	322.5	254.2	212.1	189.3	175.3	168.3	166.5
35°	3551.1	1858.0	564.4	368.1	287.5	222.6	185.8	168.3	157.8	149.0	147.2
37.5°	3687.9	1733.5	489.0	338.3	254.2	198.1	168.3	152.5	143.7	135.0	133.2
40°	3889.4	1654.6	432.9	308.5	224.4	178.8	154.2	140.2	128.0	119.2	117.4
42.5°	4199.7	1617.8	396.1	278.7	198.1	161.3	142.0	124.4	112.2	103.4	101.7
45°	4569.5	1637.1	364.6	248.9	180.5	149.0	126.2	108.7	96.4	87.6	85.9
47.5°	4965.6	1705.5	338.3	220.9	163.0	136.7	112.2	92.9	82.4	73.6	71.9
50°	5379.3	1817.6	315.5	194.6	149.0	122.7	96.4	80.6	70.1	63.1	61.3
52.5°	5738.6	1970.1	292.7	175.3	136.7	108.7	84.1	70.1	59.6	52.6	50.8
55°	6082.2	2113.9	275.2	157.8	122.7	94.7	73.6	59.6	50.8	43.8	42.1
57.5°	6455.5	2266.4	254.2	142.0	110.4	84.1	64.9	50.8	43.8	36.8	35.1
60°	6998.9	2492.5	222.6	129.7	96.4	73.6	56.1	45.6	38.6	29.8	28.0
62.5°	7782.4	2904.4	187.5	112.2	82.4	63.1	47.3	38.6	31.6	24.5	21.0
65°	9247.7	3605.5	154.2	92.9	66.6	52.6	40.3	31.6	24.5	17.5	15.8
67.5°	10302.9	3787.8	124.4	75.4	54.3	40.3	33.3	24.5	17.5	12.3	10.5
70°	9007.6	2720.3	96.4	61.3	45.6	31.6	26.3	19.3	12.3	8.8	7.0
72.5°	6786.8	1777.3	71.9	47.3	35.1	26.3	19.3	15.8	10.5	7.0	5.3
75°	4783.4	1027.1	52.6	35.1	24.5	19.3	15.8	12.3	8.8	5.3	5.3
77.5°	2452.1	424.2	36.8	24.5	17.5	12.3	10.5	7.0	7.0	5.3	3.5
80°	744.9	140.2	21.0	15.8	12.3	8.8	5.3	5.3	5.3	3.5	1.8
82.5°	170.0	45.6	12.3	12.3	8.8	7.0	5.3	1.8	1.8	0.0	0.0
85°	43.8	14.0	10.5	8.8	8.8	7.0	3.5	1.8	0.0	0.0	0.0
87.5°	15.8	8.8	8.8	8.8	7.0	5.3	3.5	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)