

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: P635740

Luminaire Tested: GWS-SA3E-735-U-T2-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P635740  
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-SA3E-735-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) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

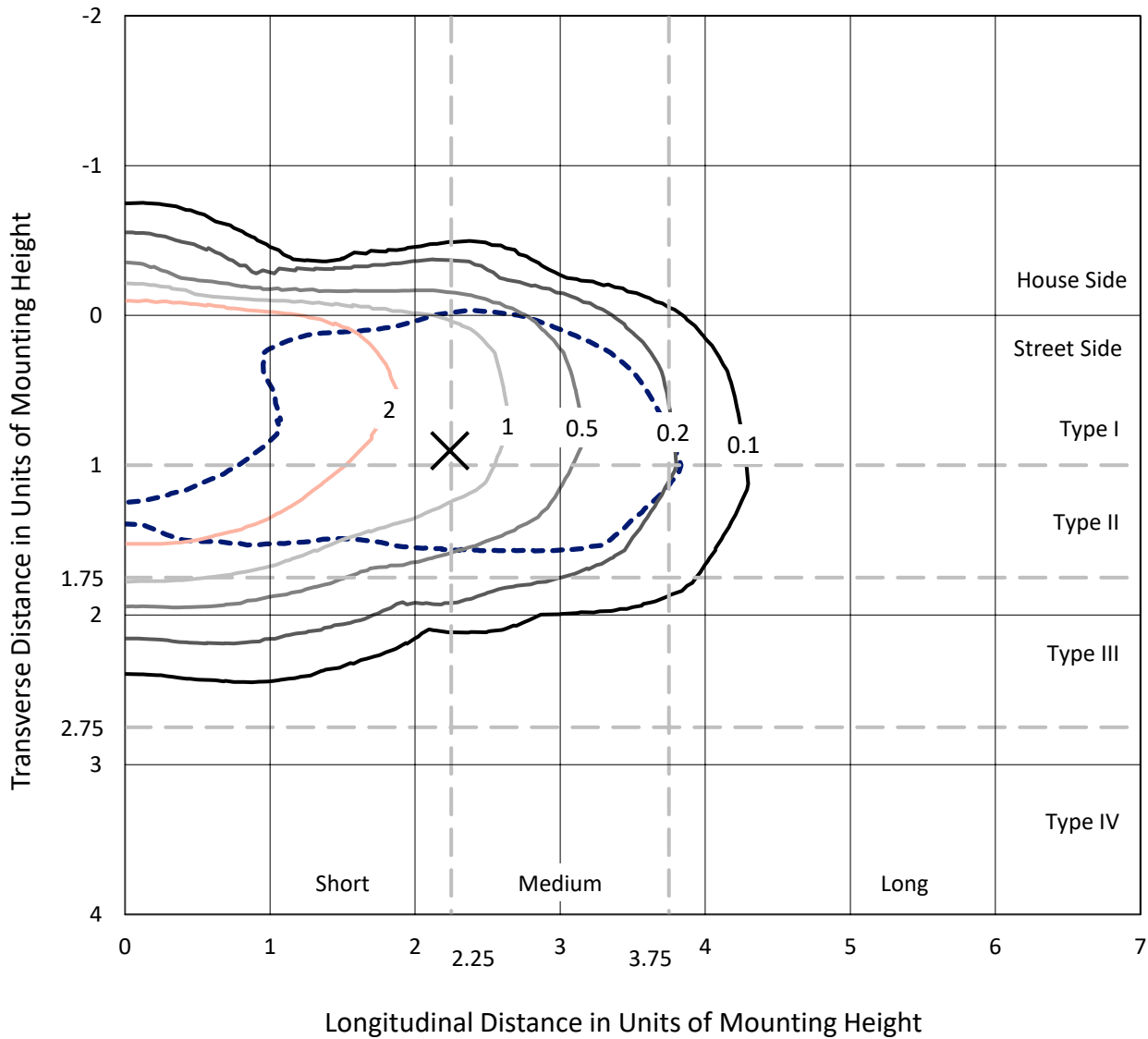
Lumens per Lamp: N/A  
Luminaire Lumens: 16247.2 lumens  
Efficiency: N/A  
Efficacy: 102.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 159.2  
Input Voltage (V): 120  
Input Current (Ain): 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

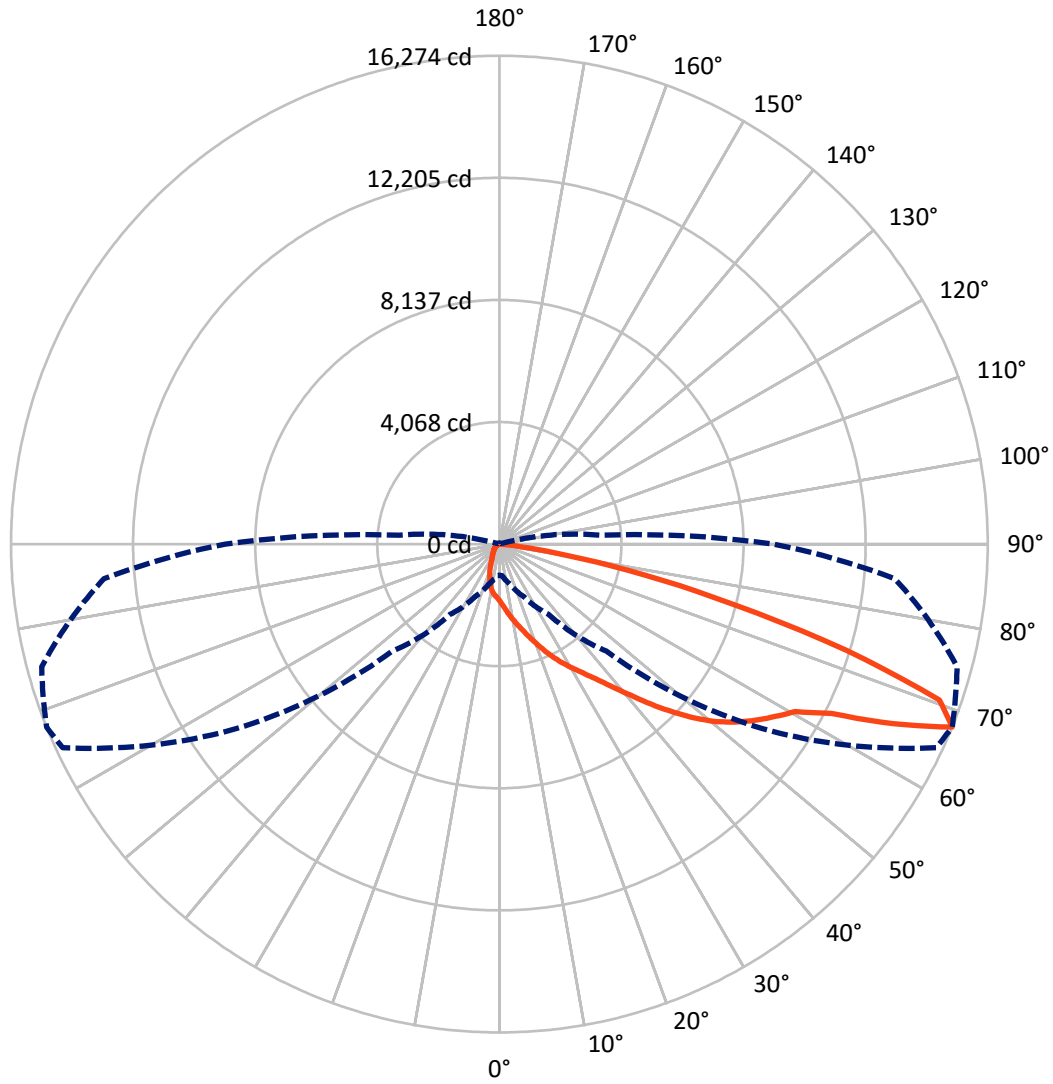
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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	1173.2	0.0	1173.2
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	15074.0	0.0	15074.0
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	16247.2	0.0	16247.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	184.4	1.1
10°-20°	529.6	3.3
20°-30°	910.0	5.6
30°-40°	1582.2	9.7
40°-50°	2760.8	17.0
50°-60°	4164.0	25.6
60°-70°	4175.5	25.7
70°-80°	1842.2	11.3
80°-90°	98.4	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°	16247.2	100.0
0°-180°	16247.2	100.0

**Coefficient of Utilization**



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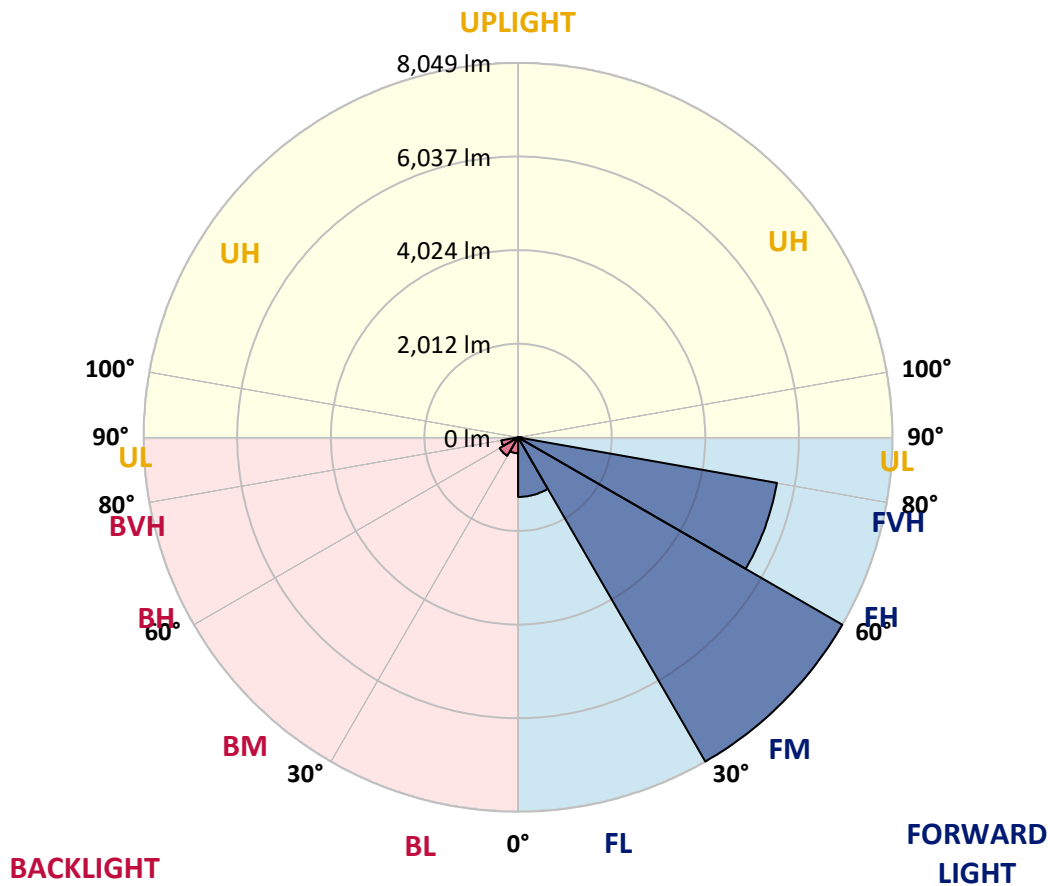
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1280.8	7.9			
FM (30°-60°)	8048.8	49.5			
FH (60°-80°)	5651.5	34.8			G3/7500
FVH (80°-90°)	92.9	0.6			G1/100
BL (0°-30°)	343.2	2.1	B1/500		
BM (30°-60°)	458.3	2.8	B1/1000		
BH (60°-80°)	366.1	2.3	B1/500		G1/500
BVH (80°-90°)	5.6	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°	1890.8	1890.8	1890.8	1890.8	1890.8	1890.8	1890.8	1890.8	1890.8	1890.8	1890.8
2.5°	2201.7	2215.7	2201.7	2204.9	2164.4	2145.8	2105.3	2049.4	2035.4	1999.6	1945.2
5°	2470.7	2483.2	2469.2	2466.1	2419.4	2385.2	2318.4	2222.0	2194.0	2124.0	2016.7
7.5°	2616.9	2624.7	2629.3	2637.1	2620.0	2592.0	2531.4	2411.7	2382.1	2268.6	2117.8
10°	2632.4	2638.7	2662.0	2708.6	2742.8	2760.0	2725.7	2615.3	2568.7	2458.3	2242.2
12.5°	2588.9	2598.2	2635.6	2713.3	2808.2	2895.2	2917.0	2820.6	2778.6	2637.1	2388.3
15°	2531.4	2539.2	2590.5	2696.2	2839.3	2999.4	3089.6	3047.6	3001.0	2853.2	2550.0
17.5°	2442.8	2453.6	2525.2	2668.2	2853.2	3081.8	3276.2	3290.2	3257.5	3097.4	2728.9
20°	2393.0	2400.8	2464.5	2612.2	2843.9	3142.5	3450.3	3582.5	3546.7	3378.8	2934.1
22.5°	2435.0	2441.2	2483.2	2598.2	2812.8	3176.7	3612.0	3874.8	3854.6	3680.5	3150.2
25°	2655.8	2676.0	2651.1	2671.3	2826.8	3195.3	3742.6	4167.1	4171.8	3996.1	3374.1
27.5°	3103.6	3077.2	3018.1	2917.0	2935.7	3245.1	3854.6	4442.4	4482.8	4304.0	3573.2
30°	3559.2	3543.6	3507.9	3350.8	3220.2	3355.5	3949.5	4723.8	4787.5	4607.2	3750.4
32.5°	4070.7	4086.3	4022.5	3834.4	3612.0	3579.4	4047.4	4991.2	5111.0	4950.8	3958.8
35°	4681.8	4686.5	4560.5	4352.2	4100.3	3949.5	4223.1	5286.7	5507.5	5389.3	4237.1
37.5°	5277.3	5305.3	5236.9	4908.8	4684.9	4409.7	4513.9	5666.1	5977.0	5930.4	4587.0
40°	5804.4	5848.0	5826.2	5509.0	5215.1	4983.5	4964.8	6110.8	6544.6	6597.4	5048.8
42.5°	6224.3	6252.3	6269.4	6043.9	5784.2	5653.6	5521.5	6627.0	7214.7	7430.9	5614.8
45°	6667.4	6676.7	6712.5	6560.1	6333.1	6344.0	6179.2	7253.6	7920.7	8354.5	6264.7
47.5°	7231.8	7262.9	7245.8	7085.7	6880.4	7003.3	6858.7	7898.9	8617.3	9340.3	6930.2
50°	7919.1	7951.8	7936.2	7749.6	7521.1	7572.4	7482.2	8525.5	9289.0	10270.1	7483.7
52.5°	8273.6	8300.1	8492.9	8576.8	8457.1	8130.6	8014.0	9214.3	9856.5	11035.1	7992.2
55°	8102.6	8121.3	8541.1	8895.6	9334.1	9007.5	8548.9	9746.1	10357.2	11632.2	8370.0
57.5°	7393.6	7494.6	8065.3	8665.5	9587.5	9873.6	9416.5	10324.5	10839.2	12047.4	8741.7
60°	5939.7	5935.1	6752.9	7830.5	9093.1	10111.5	10641.8	11106.7	11322.8	12366.1	9239.2
62.5°	3282.4	3311.9	4400.4	5820.0	7718.5	9495.8	11560.7	12457.9	12425.2	12922.8	10018.2
65°	1634.2	1693.3	2284.2	3333.7	5135.8	7847.6	11719.3	14519.7	14426.4	14233.6	11627.6
67.5°	1037.1	1060.4	1387.0	1937.4	2854.8	5044.1	10731.9	16057.5	16273.6	15788.5	13224.4
70°	671.7	710.6	964.0	1324.8	1722.8	2599.8	7861.6	15060.8	15556.8	15617.4	12229.3
72.5°	365.4	393.4	615.7	945.4	1243.9	1299.9	4415.9	11302.6	12100.2	13247.8	9567.3
75°	208.4	228.6	337.4	642.2	912.7	791.4	1957.6	7566.2	8074.6	9467.8	6855.6
77.5°	125.9	143.1	189.7	312.5	572.2	528.7	740.1	4605.6	4929.0	5649.0	3598.0
80°	57.5	68.4	119.7	172.6	312.5	250.3	283.0	2147.3	2217.3	2318.4	1191.1
82.5°	26.4	31.1	54.4	102.6	177.3	144.6	108.8	496.0	698.2	660.8	303.2
85°	3.1	3.1	20.2	42.0	49.8	37.3	45.1	112.0	141.5	199.0	87.1
87.5°	0.0	0.0	1.6	1.6	3.1	4.7	9.3	14.0	20.2	32.7	21.8
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°	1890.8	1890.8	1890.8	1890.8	1890.8	1890.8	1890.8	1890.8	1890.8	1890.8	1890.8
2.5°	1920.3	1876.8	1837.9	1780.4	1741.5	1698.0	1668.4	1632.6	1618.7	1607.8	1592.2
5°	1963.8	1893.9	1799.0	1693.3	1606.2	1523.8	1447.6	1397.9	1354.3	1348.1	1326.3
7.5°	2035.4	1931.2	1771.0	1598.4	1450.7	1313.9	1206.6	1119.5	1076.0	1062.0	1037.1
10°	2130.2	1987.2	1729.1	1464.7	1251.7	1088.4	967.1	869.2	800.8	775.9	757.2
12.5°	2235.9	2038.5	1662.2	1299.9	1057.3	870.7	716.8	612.6	569.1	553.5	539.6
15°	2357.2	2086.7	1556.5	1135.1	867.6	640.6	531.8	486.7	468.0	463.4	458.7
17.5°	2473.8	2117.8	1430.5	964.0	667.1	497.6	446.3	429.2	424.5	419.8	416.7
20°	2606.0	2139.5	1282.8	802.3	517.8	421.4	396.5	384.1	374.7	365.4	363.8
22.5°	2741.3	2139.5	1122.6	643.7	433.8	377.8	349.9	326.5	309.4	300.1	297.0
25°	2870.3	2110.0	964.0	514.7	382.5	335.9	300.1	273.7	250.3	239.5	236.3
27.5°	2962.1	2033.8	825.7	435.4	346.7	298.5	255.0	225.5	206.8	195.9	194.4
30°	3019.6	1920.3	698.2	388.7	315.6	259.7	216.1	191.3	177.3	169.5	166.4
32.5°	3063.2	1780.4	584.6	356.1	286.1	225.5	188.1	167.9	155.5	149.3	147.7
35°	3150.2	1648.2	500.7	326.5	255.0	197.5	164.8	149.3	139.9	132.2	130.6
37.5°	3271.5	1537.8	433.8	300.1	225.5	175.7	149.3	135.3	127.5	119.7	118.2
40°	3450.3	1467.8	384.1	273.7	199.0	158.6	136.8	124.4	113.5	105.7	104.2
42.5°	3725.5	1435.2	351.4	247.2	175.7	143.1	125.9	110.4	99.5	91.7	90.2
45°	4053.6	1452.3	323.4	220.8	160.2	132.2	112.0	96.4	85.5	77.7	76.2
47.5°	4405.0	1512.9	300.1	195.9	144.6	121.3	99.5	82.4	73.1	65.3	63.8
50°	4772.0	1612.4	279.9	172.6	132.2	108.8	85.5	71.5	62.2	56.0	54.4
52.5°	5090.7	1747.7	259.7	155.5	121.3	96.4	74.6	62.2	52.9	46.6	45.1
55°	5395.5	1875.2	244.1	139.9	108.8	84.0	65.3	52.9	45.1	38.9	37.3
57.5°	5726.7	2010.5	225.5	125.9	98.0	74.6	57.5	45.1	38.9	32.7	31.1
60°	6208.7	2211.1	197.5	115.1	85.5	65.3	49.8	40.4	34.2	26.4	24.9
62.5°	6903.8	2576.5	166.4	99.5	73.1	56.0	42.0	34.2	28.0	21.8	18.7
65°	8203.7	3198.4	136.8	82.4	59.1	46.6	35.8	28.0	21.8	15.5	14.0
67.5°	9139.7	3360.1	110.4	66.9	48.2	35.8	29.5	21.8	15.5	10.9	9.3
70°	7990.6	2413.2	85.5	54.4	40.4	28.0	23.3	17.1	10.9	7.8	6.2
72.5°	6020.6	1576.7	63.8	42.0	31.1	23.3	17.1	14.0	9.3	6.2	4.7
75°	4243.3	911.2	46.6	31.1	21.8	17.1	14.0	10.9	7.8	4.7	4.7
77.5°	2175.3	376.3	32.7	21.8	15.5	10.9	9.3	6.2	6.2	4.7	3.1
80°	660.8	124.4	18.7	14.0	10.9	7.8	4.7	4.7	4.7	3.1	1.6
82.5°	150.8	40.4	10.9	10.9	7.8	6.2	4.7	1.6	1.6	0.0	0.0
85°	38.9	12.4	9.3	7.8	7.8	6.2	3.1	1.6	0.0	0.0	0.0
87.5°	14.0	7.8	7.8	7.8	6.2	4.7	3.1	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)