

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: P633745

Luminaire Tested: GWS-SA2F-735-U-SL3-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633745  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-34)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2F-735-U-SL3-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (32) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

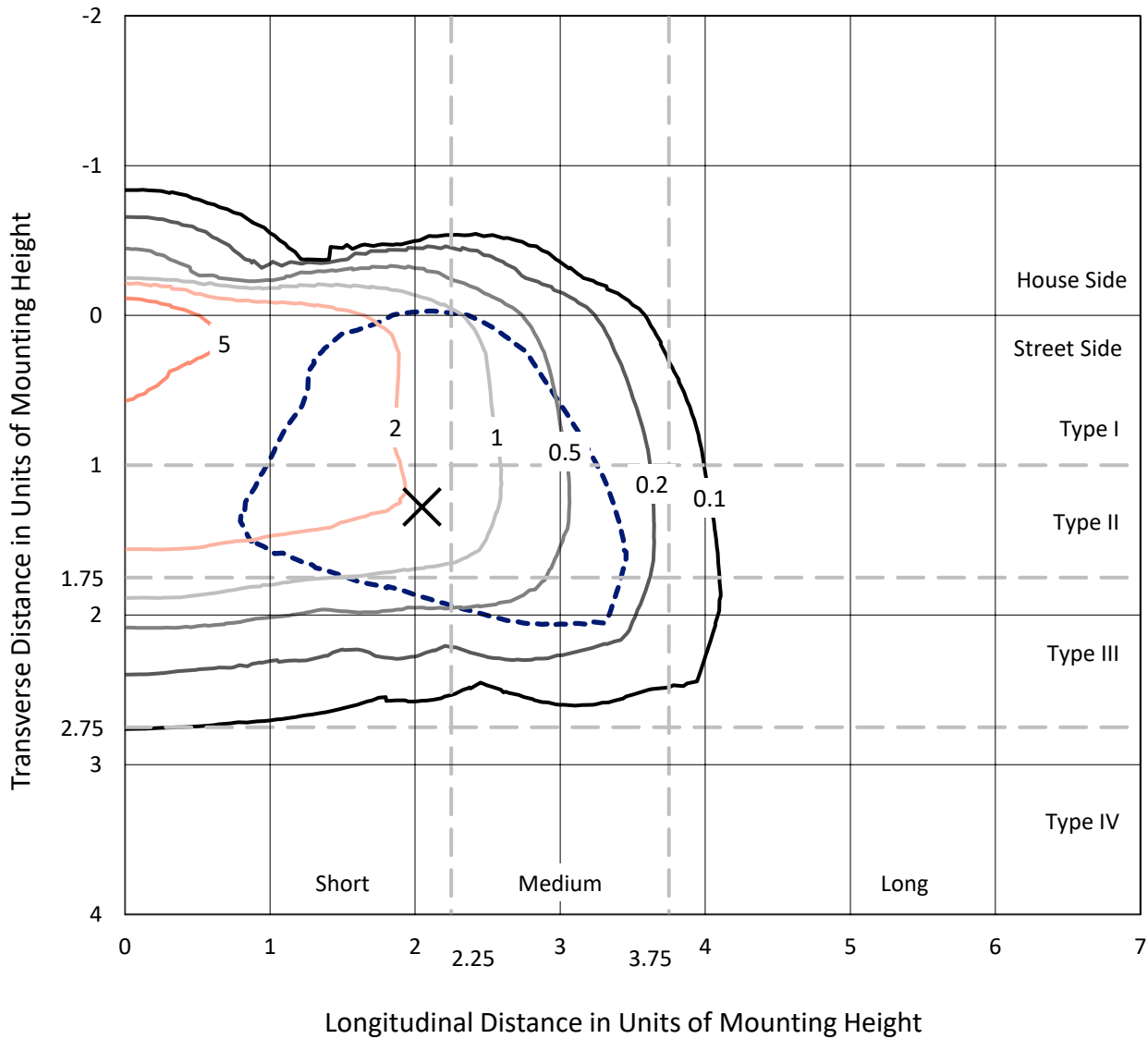
Lumens per Lamp: N/A  
Luminaire Lumens: 12959 lumens  
Efficiency: N/A  
Efficacy: 104.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 124.5  
Input Voltage (V): 120  
Input Current (Ain): 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

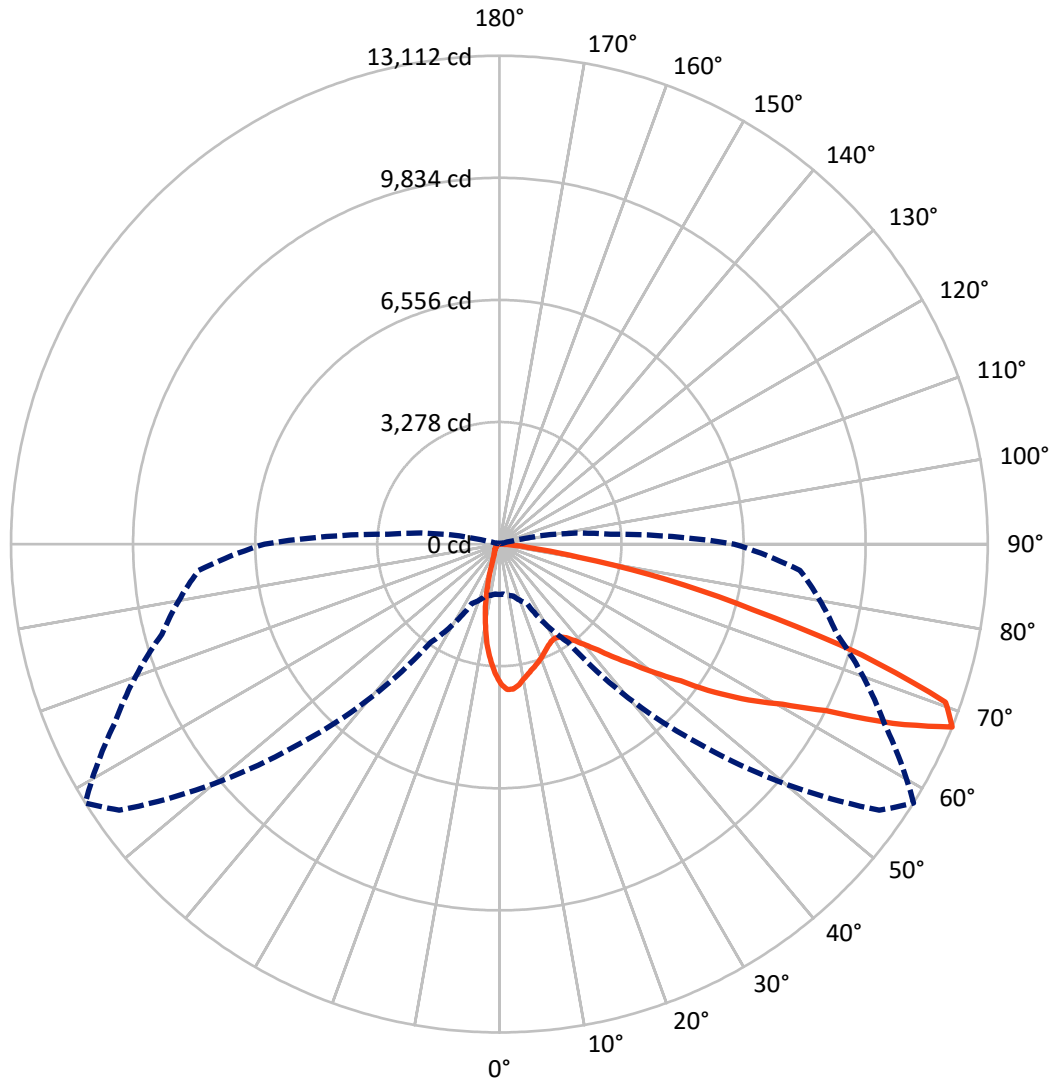
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1266.0	0.0	1266.0
	% Fixture	9.8	0.0	9.8
<b>Street Side</b>	Lumens	11693.0	0.0	11693.0
	% Fixture	90.2	0.0	90.2
<b>Total</b>	Lumens	12959.0	0.0	12959.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	303.8	2.3
10°-20°	632.3	4.9
20°-30°	852.7	6.6
30°-40°	1198.2	9.2
40°-50°	1850.5	14.3
50°-60°	2959.2	22.8
60°-70°	3503.9	27.0
70°-80°	1550.1	12.0
80°-90°	108.4	0.8
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°	12959.0	100.0
0°-180°	12959.0	100.0

**Coefficient of Utilization**



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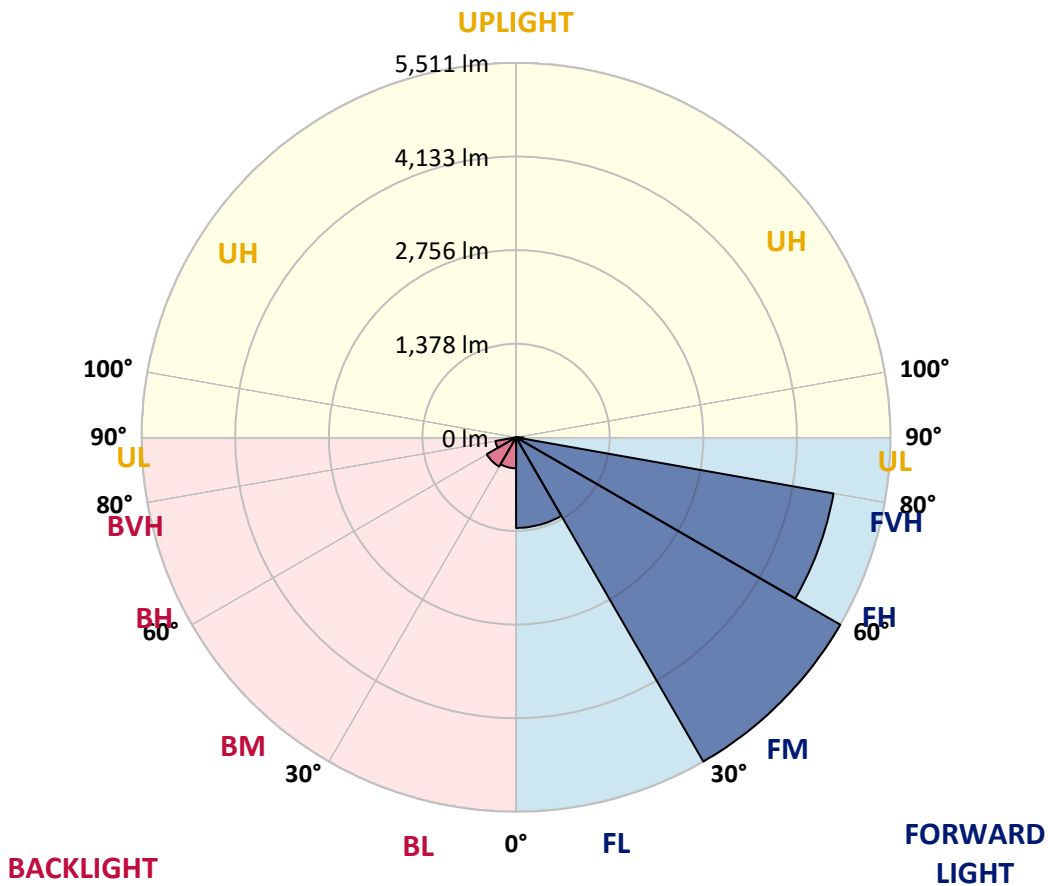
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1333.2	10.3			
FM (30°-60°)	5511.2	42.5			
FH (60°-80°)	4744.9	36.6			G2/5000
FVH (80°-90°)	103.7	0.8			G2/225
BL (0°-30°)	455.6	3.5	B1/500		
BM (30°-60°)	496.7	3.8	B1/1000		
BH (60°-80°)	309.1	2.4	B1/500		G1/500
BVH (80°-90°)	4.6	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-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3738.0	3738.0	3738.0	3738.0	3738.0	3738.0	3738.0	3738.0	3738.0	3738.0	3738.0
2.5°	3931.8	3938.7	3947.9	3959.3	3957.1	3946.7	3934.1	3905.4	3887.1	3829.7	3759.8
5°	3805.7	3804.5	3827.4	3849.2	3888.2	3908.9	3937.6	3911.2	3902.0	3833.2	3719.6
7.5°	3559.1	3571.7	3598.1	3632.5	3688.7	3749.5	3818.3	3810.2	3837.8	3791.9	3650.8
10°	3317.0	3310.2	3351.5	3403.1	3489.1	3567.1	3666.9	3665.7	3738.0	3733.4	3572.8
12.5°	3104.9	3103.7	3135.8	3194.3	3295.3	3404.2	3539.6	3543.0	3632.5	3669.2	3506.3
15°	2925.9	2928.2	2959.2	3020.0	3124.4	3257.4	3414.5	3443.2	3544.1	3618.7	3440.9
17.5°	2798.6	2799.8	2818.1	2870.9	2973.0	3115.2	3304.4	3343.4	3473.0	3580.8	3388.2
20°	2740.1	2735.5	2739.0	2765.4	2844.5	2974.1	3192.0	3242.5	3407.7	3554.5	3340.0
22.5°	2748.1	2741.3	2725.2	2721.8	2757.3	2856.0	3072.7	3134.7	3336.5	3538.4	3296.4
25°	2819.3	2804.3	2781.4	2747.0	2733.2	2782.6	2968.4	3032.6	3270.0	3539.6	3263.1
27.5°	2928.2	2912.2	2883.5	2837.6	2783.7	2763.1	2897.3	2958.0	3223.0	3565.9	3247.1
30°	3067.0	3054.4	3026.9	2971.8	2899.5	2814.7	2882.3	2932.8	3200.1	3619.8	3254.0
32.5°	3231.0	3221.8	3198.9	3148.4	3065.9	2936.2	2932.8	2971.8	3218.4	3697.8	3280.3
35°	3389.3	3392.7	3393.9	3366.4	3278.0	3120.9	3071.6	3085.4	3294.1	3814.8	3340.0
37.5°	3560.2	3552.2	3593.5	3613.0	3528.1	3360.6	3286.1	3287.2	3438.6	3988.0	3452.4
40°	3689.8	3692.1	3781.6	3861.9	3826.3	3664.6	3557.9	3556.8	3661.1	4225.4	3633.6
42.5°	3811.4	3826.3	3958.2	4095.8	4145.2	4001.8	3924.9	3896.3	3973.1	4546.6	3905.4
45°	3941.0	3962.8	4147.5	4343.6	4473.2	4388.3	4327.5	4339.0	4348.2	4920.5	4271.3
47.5°	4092.4	4106.2	4334.4	4610.8	4852.8	4831.0	4834.5	4820.7	4816.1	5391.9	4755.3
50°	4275.9	4308.0	4570.7	4901.0	5231.3	5375.9	5424.0	5429.8	5355.2	5905.8	5256.6
52.5°	4665.9	4704.9	4929.7	5218.7	5644.3	5948.2	6144.3	6105.3	5990.6	6403.5	5806.0
55°	5125.8	5155.6	5372.4	5671.8	6148.9	6575.6	7041.3	7025.2	6744.2	6927.7	6257.9
57.5°	5169.4	5202.7	5538.7	5997.5	6797.0	7350.9	7840.7	7892.3	7480.6	7299.3	6661.6
60°	4679.6	4747.3	5206.1	5823.2	7044.7	8393.5	8717.0	8727.3	8020.8	7676.7	7154.8
62.5°	3750.6	3782.7	4244.9	5050.1	6662.8	9001.4	10055.5	9837.6	8714.7	8260.5	7935.9
65°	1965.9	2096.7	2499.3	3390.5	5403.4	8789.3	11665.9	11606.2	9962.6	9096.6	8543.8
67.5°	1348.8	1347.7	1442.9	1767.5	3221.8	7567.7	12456.1	13112.2	11405.5	9383.4	8103.4
70°	1026.5	1030.0	1114.9	1325.9	1668.8	5037.5	11589.0	12710.8	11673.9	8519.7	6553.8
72.5°	681.3	688.2	829.3	1071.3	1332.8	2469.4	9006.0	10170.2	9822.7	6842.8	4613.1
75°	407.2	412.9	513.8	778.8	1184.8	1382.1	5722.2	7030.9	6761.4	4716.4	2472.9
77.5°	167.5	172.0	263.8	485.2	867.1	1073.6	3164.5	4600.5	4050.0	1875.3	675.6
80°	70.0	72.3	127.3	339.5	625.1	673.3	1465.8	2162.0	1659.7	403.7	206.5
82.5°	25.2	26.4	47.0	187.0	388.8	507.0	739.8	854.5	468.0	131.9	111.3
85°	1.1	1.1	11.5	63.1	148.0	143.4	423.2	409.5	154.8	55.1	66.5
87.5°	0.0	0.0	1.1	1.1	2.3	5.7	40.1	71.1	33.3	13.8	28.7
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°	3738.0	3738.0	3738.0	3738.0	3738.0	3738.0	3738.0	3738.0	3738.0	3738.0	3738.0
2.5°	3713.9	3653.1	3586.6	3524.6	3426.0	3367.5	3295.3	3263.1	3217.3	3205.8	3212.7
5°	3638.2	3533.8	3374.4	3229.9	3042.9	2892.7	2741.3	2677.0	2594.5	2539.4	2516.5
7.5°	3531.5	3395.0	3146.1	2883.5	2626.6	2352.4	2143.7	2006.1	1881.0	1812.2	1798.5
10°	3423.7	3245.9	2889.2	2513.0	2115.0	1787.0	1504.8	1296.1	1126.3	1049.5	989.8
12.5°	3312.5	3091.1	2627.7	2136.8	1674.6	1227.3	878.6	675.6	554.0	505.8	513.8
15°	3210.4	2942.0	2368.5	1760.6	1179.1	740.9	485.2	409.5	380.8	371.6	370.5
17.5°	3112.9	2800.9	2110.4	1394.7	777.6	454.2	371.6	353.3	345.2	340.7	340.7
20°	3024.6	2665.6	1858.1	1050.6	502.4	360.1	336.1	326.9	320.0	316.6	316.6
22.5°	2942.0	2534.8	1611.5	743.2	370.5	323.4	308.5	299.4	291.3	286.7	286.7
25°	2867.4	2416.7	1376.4	511.5	318.9	295.9	279.9	269.5	255.8	247.7	247.7
27.5°	2813.5	2311.1	1150.4	372.8	287.9	266.1	247.7	234.0	219.1	209.9	207.6
30°	2781.4	2221.7	922.2	306.2	259.2	237.4	216.8	199.6	182.4	173.2	172.0
32.5°	2763.1	2139.1	713.4	267.2	235.1	209.9	187.0	168.6	151.4	141.1	139.9
35°	2769.9	2074.9	534.5	240.9	212.2	185.8	160.6	142.2	127.3	118.1	115.8
37.5°	2829.6	2046.2	401.4	220.2	192.7	165.2	138.8	121.6	107.8	100.9	99.8
40°	2945.4	2051.9	315.4	204.2	176.6	144.5	119.3	103.2	92.9	87.2	86.0
42.5°	3125.5	2100.1	260.4	190.4	159.4	126.2	103.2	90.6	80.3	74.6	73.4
45°	3393.9	2199.9	227.1	174.3	141.1	109.0	89.5	78.0	68.8	61.9	60.8
47.5°	3782.7	2373.1	205.3	159.4	125.0	94.1	76.8	65.4	57.3	51.6	50.5
50°	4196.8	2580.7	187.0	144.5	111.3	81.4	65.4	53.9	47.0	41.3	40.1
52.5°	4638.4	2804.3	173.2	130.8	98.6	70.0	55.1	44.7	37.9	32.1	31.0
55°	5062.7	3029.2	157.1	121.6	83.7	59.6	45.9	36.7	29.8	25.2	25.2
57.5°	5475.6	3235.6	139.9	106.7	68.8	50.5	37.9	29.8	24.1	20.6	19.5
60°	5968.8	3521.2	120.4	90.6	57.3	42.4	31.0	24.1	19.5	16.1	16.1
62.5°	6701.8	3818.3	103.2	75.7	48.2	35.6	25.2	19.5	16.1	13.8	12.6
65°	6941.5	3657.7	87.2	61.9	39.0	28.7	20.6	17.2	13.8	12.6	11.5
67.5°	6301.5	2998.2	72.3	50.5	32.1	24.1	18.4	14.9	12.6	11.5	10.3
70°	4917.1	2127.6	56.2	37.9	26.4	19.5	16.1	13.8	11.5	10.3	10.3
72.5°	3344.6	1258.2	44.7	28.7	21.8	17.2	13.8	12.6	11.5	10.3	9.2
75°	1647.1	447.3	34.4	21.8	17.2	14.9	12.6	11.5	10.3	9.2	9.2
77.5°	443.9	123.9	26.4	17.2	13.8	11.5	11.5	11.5	10.3	8.0	8.0
80°	150.3	51.6	19.5	12.6	11.5	9.2	8.0	10.3	9.2	8.0	6.9
82.5°	82.6	25.2	13.8	10.3	8.0	6.9	6.9	6.9	6.9	5.7	5.7
85°	52.8	13.8	9.2	8.0	8.0	5.7	4.6	4.6	3.4	3.4	3.4
87.5°	24.1	8.0	8.0	6.9	6.9	5.7	3.4	2.3	1.1	1.1	1.1
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)