

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: P635287

Luminaire Tested: GWS-SA3D-740-U-SL4-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P635287  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-36)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA3D-740-U-SL4-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (48) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

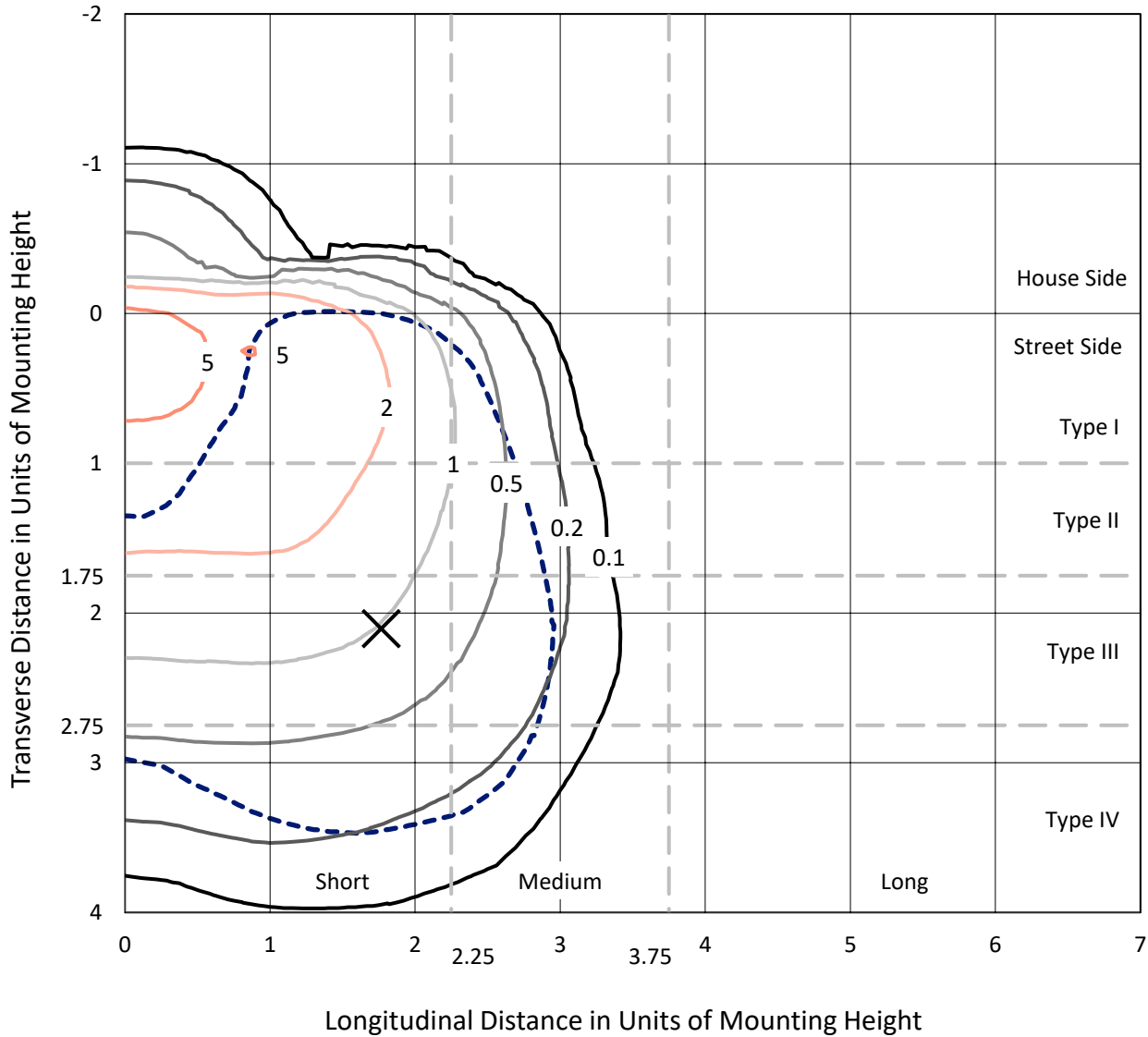
Lumens per Lamp: N/A  
Luminaire Lumens: 13865.8 lumens  
Efficiency: N/A  
Efficacy: 114.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 120.8  
Input Voltage (V): 120  
Input Current (Ain): 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

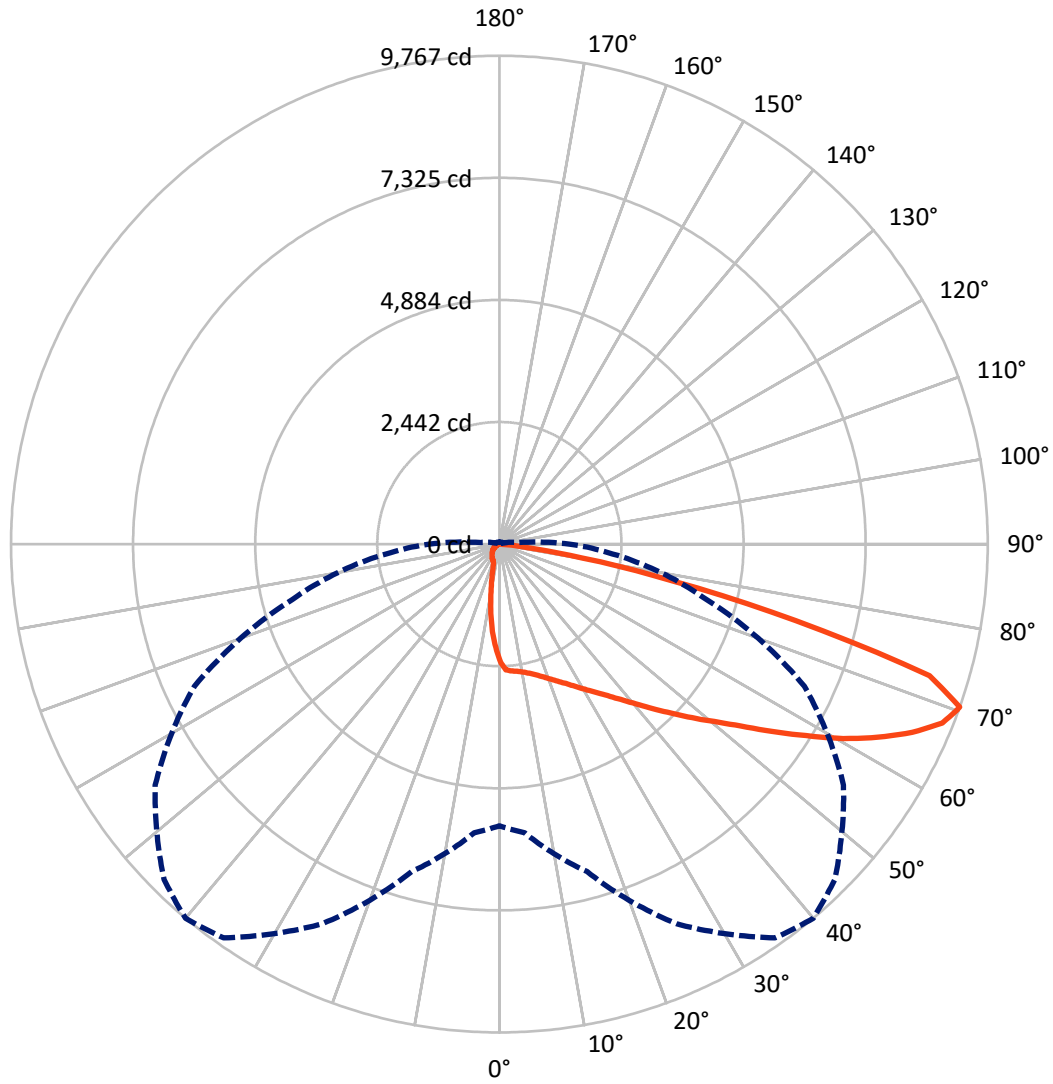
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1133.9	0.0	1133.9
	% Fixture	8.2	0.0	8.2
<b>Street Side</b>	Lumens	12731.9	0.0	12731.9
	% Fixture	91.8	0.0	91.8
<b>Total</b>	Lumens	13865.8	0.0	13865.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	198.9	1.4
10°-20°	504.4	3.6
20°-30°	844.1	6.1
30°-40°	1325.8	9.6
40°-50°	2097.1	15.1
50°-60°	3059.2	22.1
60°-70°	3792.3	27.4
70°-80°	1918.7	13.8
80°-90°	125.3	0.9
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°	13865.8	100.0
0°-180°	13865.8	100.0

**Coefficient of Utilization**



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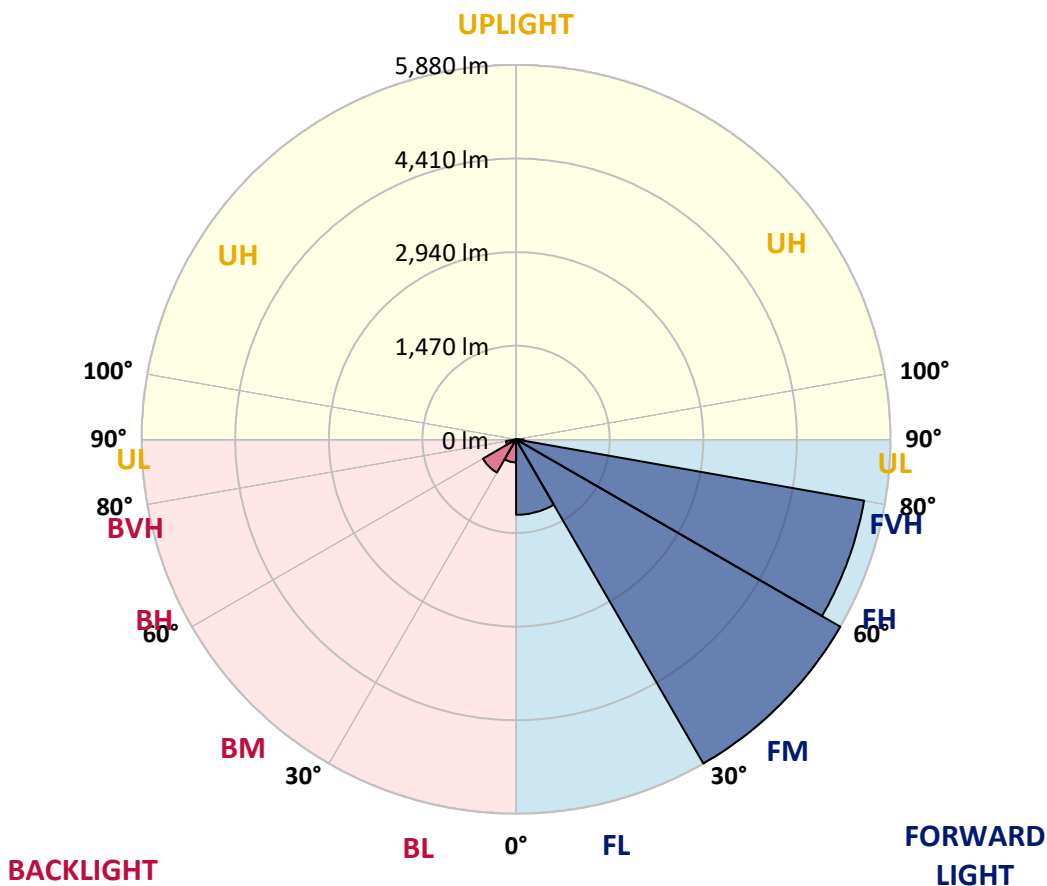
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1185.3	8.5			
FM (30°-60°)	5880.3	42.4			
FH (60°-80°)	5549.3	40.0			G3/7500
FVH (80°-90°)	117.0	0.8			G2/225
BL (0°-30°)	362.1	2.6	B1/500		
BM (30°-60°)	601.8	4.3	B1/1000		
BH (60°-80°)	161.7	1.2	B1/500		G1/500
BVH (80°-90°)	8.3	0.1			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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2352.9	2352.9	2352.9	2352.9	2352.9	2352.9	2352.9	2352.9	2352.9	2352.9	2352.9
2.5°	2529.5	2538.3	2537.1	2540.8	2532.0	2518.1	2515.6	2496.7	2462.6	2419.7	2371.8
5°	2581.2	2591.3	2583.7	2579.9	2563.5	2548.4	2544.6	2524.4	2485.3	2427.3	2344.0
7.5°	2625.4	2627.9	2622.8	2614.0	2590.0	2569.9	2556.0	2528.2	2481.5	2423.5	2327.6
10°	2632.9	2631.7	2634.2	2635.5	2620.3	2602.7	2591.3	2553.5	2494.2	2432.3	2328.9
12.5°	2624.1	2624.1	2640.5	2659.4	2659.4	2650.6	2639.2	2605.2	2535.8	2462.6	2354.1
15°	2635.5	2639.2	2670.8	2706.1	2717.5	2708.6	2703.6	2668.3	2596.3	2515.6	2399.5
17.5°	2675.8	2679.6	2730.1	2783.1	2796.9	2786.8	2776.8	2741.4	2664.5	2576.2	2451.3
20°	2735.1	2745.2	2809.6	2877.7	2890.3	2877.7	2857.5	2808.3	2731.3	2641.8	2500.5
22.5°	2843.6	2849.9	2919.3	2991.2	2997.5	2977.3	2947.1	2878.9	2798.2	2711.2	2556.0
25°	2987.4	2996.3	3065.7	3135.0	3118.6	3088.4	3046.7	2969.8	2877.7	2793.2	2626.6
27.5°	3159.0	3169.1	3237.2	3297.8	3254.9	3219.6	3172.9	3077.0	2983.7	2906.7	2717.5
30°	3344.5	3353.3	3413.9	3468.1	3411.3	3369.7	3314.2	3215.8	3121.2	3063.1	2846.1
32.5°	3523.6	3522.4	3580.4	3624.5	3566.5	3533.7	3483.2	3383.6	3307.9	3282.6	3037.9
35°	3690.1	3690.1	3738.1	3782.2	3740.6	3722.9	3676.3	3596.8	3553.9	3584.2	3294.0
37.5°	3857.9	3849.1	3894.5	3943.7	3939.9	3941.2	3914.7	3876.9	3879.4	3986.6	3646.0
40°	3996.7	3992.9	4045.9	4110.3	4160.7	4201.1	4184.7	4198.6	4278.0	4478.6	4096.4
42.5°	4107.7	4116.6	4184.7	4286.9	4414.3	4496.3	4507.7	4564.4	4768.8	5079.1	4604.8
45°	4235.1	4236.4	4331.0	4487.5	4690.6	4820.5	4865.9	5012.3	5302.5	5702.4	5162.4
47.5°	4391.6	4376.4	4482.4	4701.9	4995.9	5187.6	5268.4	5451.3	5900.4	6310.5	5616.6
50°	4564.4	4536.7	4656.5	4955.5	5337.8	5577.5	5741.5	6008.9	6493.4	6810.0	5954.7
52.5°	4765.0	4738.5	4874.8	5246.9	5747.8	6039.2	6249.9	6519.9	7001.8	7191.0	6156.5
55°	5019.9	4993.4	5137.2	5596.4	6232.2	6610.7	6831.5	7058.6	7474.9	7472.4	6302.9
57.5°	5302.5	5265.9	5465.2	6038.0	6836.5	7230.2	7454.7	7565.7	7834.5	7690.6	6401.3
60°	5626.7	5593.9	5870.2	6564.0	7534.2	7898.8	8040.1	7994.7	8129.7	7819.3	6367.2
62.5°	5919.4	5904.2	6247.4	7121.7	8199.1	8506.9	8546.0	8347.9	8346.7	7821.8	6137.6
65°	6223.4	6252.4	6762.1	7763.8	8867.7	9074.6	9007.7	8698.6	8433.7	7512.8	5458.9
67.5°	6337.0	6421.5	7101.5	8344.1	9395.0	9556.5	9439.2	8874.0	8071.6	6473.2	4156.9
70°	5635.5	5794.5	6781.0	8376.9	9613.3	9767.2	9485.9	8402.2	6729.3	4288.1	2277.2
72.5°	4285.6	4471.1	5650.6	6859.2	8645.7	8996.4	8515.7	6845.4	4337.3	1878.5	764.5
75°	2398.3	2598.9	4208.7	5164.9	5804.6	6125.0	5948.4	4391.6	1921.4	490.8	228.3
77.5°	811.2	878.1	1958.0	3195.6	3831.4	3543.8	3000.1	2181.3	706.5	186.7	121.1
80°	480.7	505.9	729.2	1590.9	2016.0	1671.6	1319.6	806.2	359.6	99.7	84.5
82.5°	143.8	170.3	402.4	590.4	789.8	492.0	416.3	460.5	186.7	54.2	70.6
85°	0.0	0.0	85.8	182.9	206.9	80.7	80.7	261.1	34.1	22.7	51.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.3	6.3	3.8	5.0	11.4
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°	2352.9	2352.9	2352.9	2352.9	2352.9	2352.9	2352.9	2352.9	2352.9	2352.9	2352.9
2.5°	2337.7	2293.6	2241.8	2192.6	2146.0	2085.4	2056.4	2021.1	1990.8	1974.4	1983.2
5°	2291.0	2221.7	2115.7	2008.4	1900.0	1797.8	1705.7	1643.8	1588.3	1559.3	1565.6
7.5°	2250.7	2157.3	1992.0	1816.7	1642.6	1467.2	1324.7	1213.6	1127.9	1092.5	1086.2
10°	2233.0	2115.7	1882.3	1630.0	1362.5	1126.6	924.7	802.4	715.3	672.4	680.0
12.5°	2241.8	2094.2	1788.9	1447.0	1100.1	825.1	632.1	517.3	455.4	430.2	423.9
15°	2267.1	2089.2	1705.7	1260.3	849.0	576.5	436.5	389.8	377.2	374.7	374.7
17.5°	2296.1	2090.4	1619.9	1071.1	644.7	427.7	373.4	364.6	360.8	358.3	359.6
20°	2325.1	2090.4	1521.5	879.3	484.4	369.6	355.8	349.5	345.7	344.4	344.4
22.5°	2360.4	2090.4	1411.7	701.4	388.6	350.7	339.4	335.6	331.8	330.5	329.3
25°	2403.3	2091.7	1290.6	548.8	353.2	334.3	325.5	321.7	317.9	315.4	315.4
27.5°	2465.1	2101.8	1156.9	427.7	333.1	319.2	311.6	307.8	304.0	300.3	300.3
30°	2554.7	2127.0	1006.7	353.2	314.1	302.8	295.2	292.7	288.9	285.1	283.9
32.5°	2688.4	2171.2	851.6	316.7	296.5	285.1	276.3	273.8	270.0	266.2	264.9
35°	2875.2	2251.9	700.2	293.9	273.8	262.4	257.4	256.1	251.1	247.3	247.3
37.5°	3148.9	2383.1	555.1	271.2	254.8	246.0	239.7	237.2	232.1	228.3	227.1
40°	3483.2	2553.5	431.5	253.6	237.2	228.3	222.0	218.3	211.9	206.9	204.4
42.5°	3909.7	2761.6	340.6	234.7	220.8	211.9	206.9	199.3	190.5	182.9	181.7
45°	4353.7	2976.1	281.3	217.0	205.6	198.1	191.8	181.7	169.1	160.2	157.7
47.5°	4694.4	3109.8	246.0	198.1	189.2	182.9	175.4	162.7	147.6	137.5	135.0
50°	4937.9	3130.0	219.5	180.4	175.4	169.1	157.7	142.6	126.2	116.1	113.5
52.5°	5057.7	3039.2	198.1	164.0	160.2	153.9	140.0	123.6	106.0	95.9	93.4
55°	5112.0	2867.6	177.9	150.1	145.1	137.5	122.4	104.7	87.0	78.2	75.7
57.5°	5090.5	2614.0	160.2	136.3	129.9	121.1	104.7	85.8	71.9	63.1	61.8
60°	4931.5	2258.2	142.6	122.4	114.8	104.7	88.3	70.6	58.0	51.7	50.5
62.5°	4588.4	1816.7	124.9	106.0	100.9	90.8	75.7	58.0	47.9	44.2	42.9
65°	3885.7	1284.3	107.2	89.6	87.0	77.0	63.1	47.9	41.6	39.1	37.8
67.5°	2793.2	780.9	90.8	77.0	74.4	65.6	53.0	41.6	37.8	36.6	36.6
70°	1404.1	369.6	71.9	63.1	63.1	54.2	45.4	37.8	36.6	35.3	35.3
72.5°	476.9	157.7	54.2	49.2	51.7	46.7	39.1	35.3	35.3	35.3	35.3
75°	162.7	83.3	37.8	35.3	37.8	37.8	34.1	34.1	35.3	35.3	35.3
77.5°	106.0	55.5	26.5	24.0	29.0	29.0	29.0	31.5	34.1	34.1	34.1
80°	87.0	30.3	17.7	16.4	21.4	21.4	24.0	29.0	31.5	31.5	31.5
82.5°	74.4	18.9	10.1	11.4	15.1	16.4	20.2	24.0	27.8	29.0	29.0
85°	50.5	10.1	7.6	8.8	10.1	12.6	16.4	20.2	22.7	25.2	25.2
87.5°	13.9	3.8	5.0	6.3	6.3	8.8	12.6	15.1	17.7	18.9	18.9
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)