

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: P636012

Luminaire Tested: GWS-SA3E-830-U-T1-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636012
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3E-830-U-T1-W
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17437.9 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Medium
BUG Rating: B4 - U0 - G4

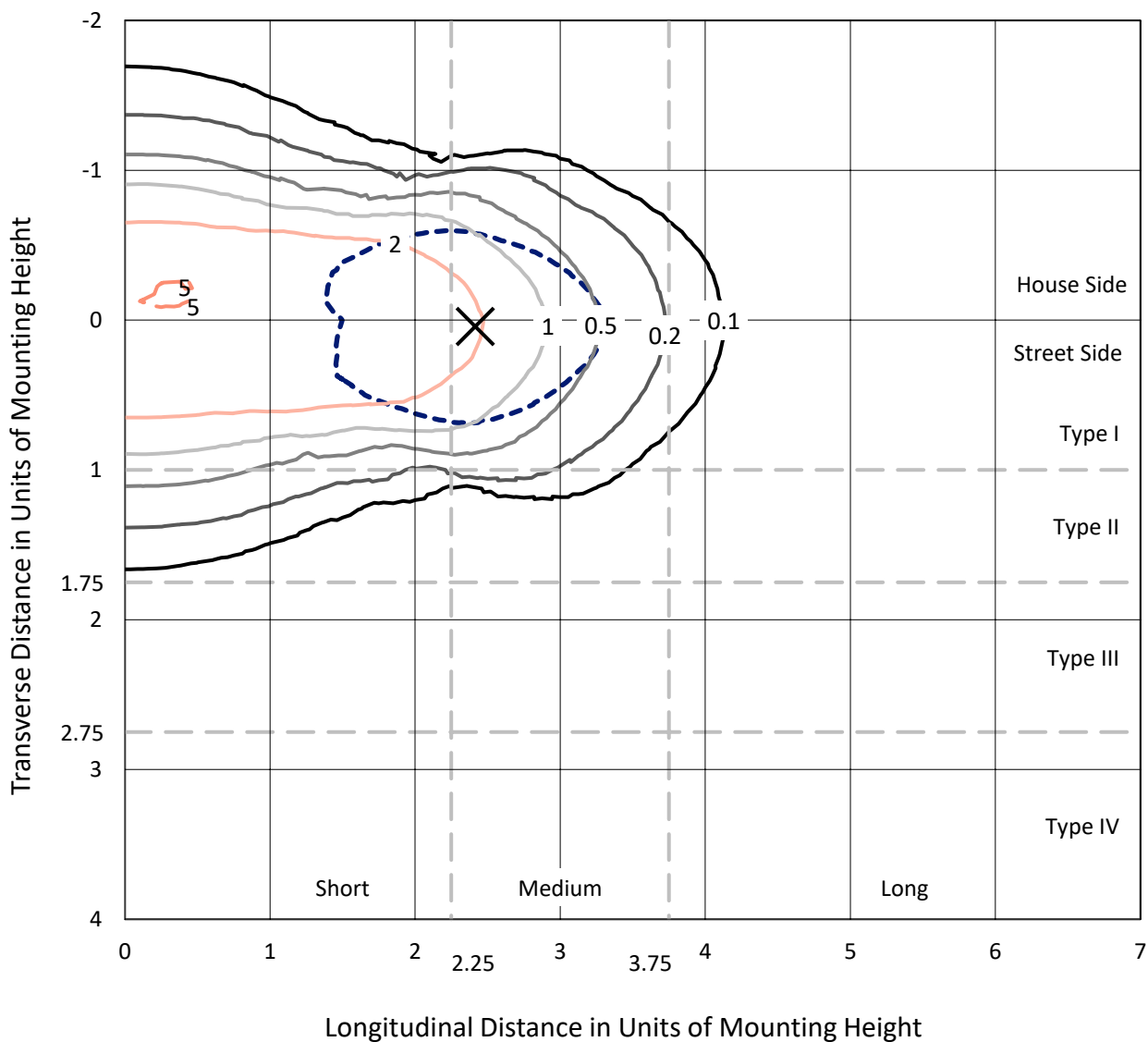
Input Watts (W): 159.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

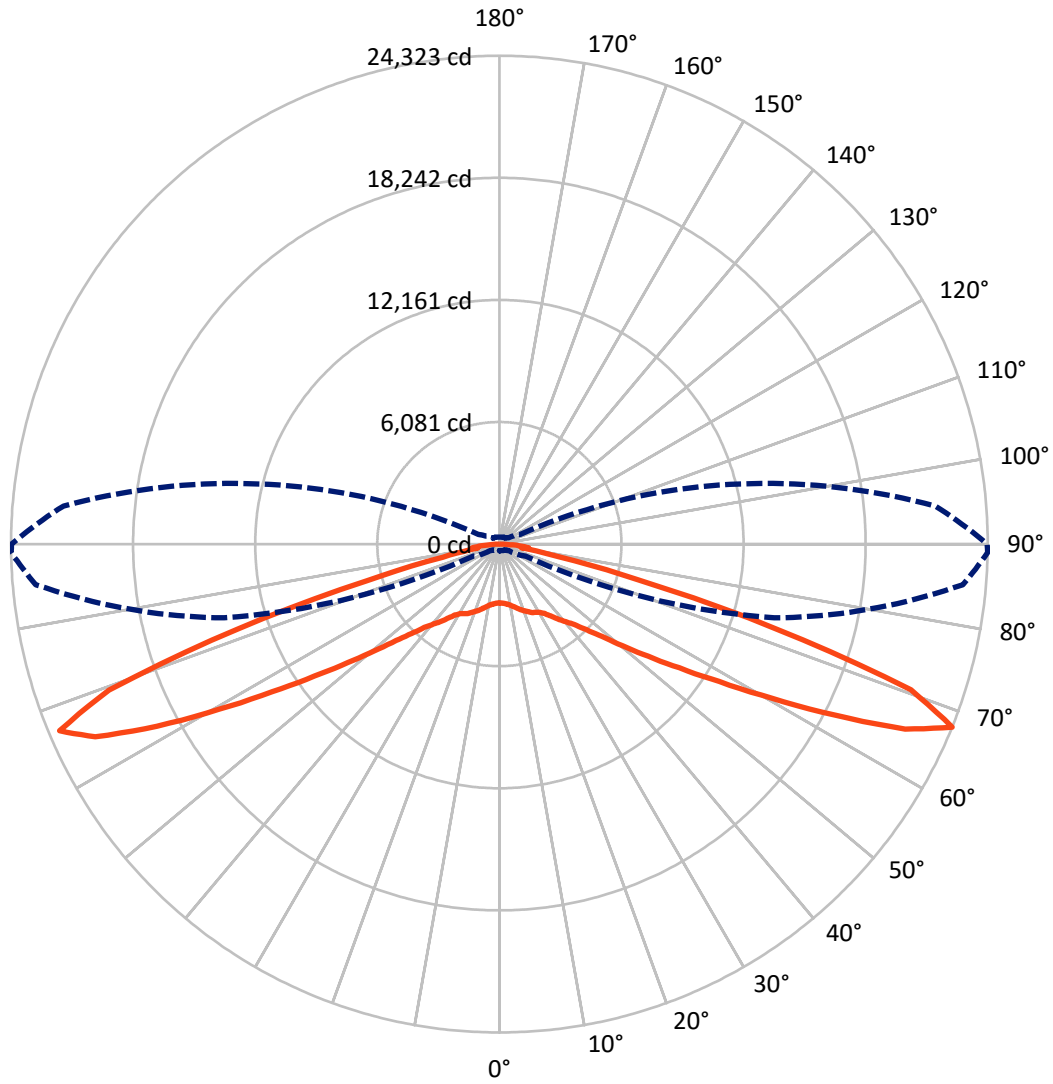
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type I - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 89-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8642.5	0.0	8642.5
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	8795.4	0.0	8795.4
	% Fixture	50.4	0.0	50.4
Total	Lumens	17437.9	0.0	17437.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	293.6	1.7
10°-20°	955.9	5.5
20°-30°	1616.0	9.3
30°-40°	2217.7	12.7
40°-50°	2828.1	16.2
50°-60°	3548.3	20.3
60°-70°	4279.5	24.5
70°-80°	1548.2	8.9
80°-90°	150.6	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°	17437.9	100.0
0°-180°	17437.9	100.0

Coefficient of Utilization



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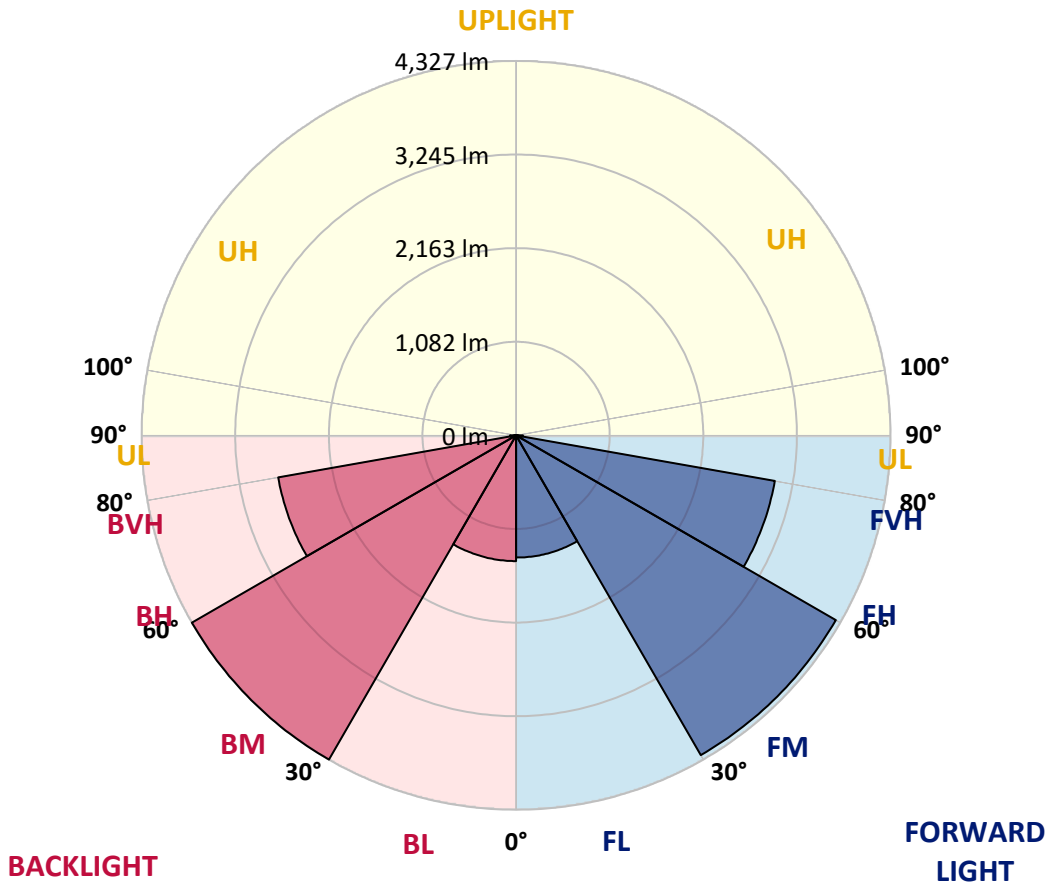
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1412.3	8.1			
FM (30°-60°)	4267.4	24.5			
FH (60°-80°)	3036.2	17.4			G2/5000
FVH (80°-90°)	79.4	0.5			G1/100
BL (0°-30°)	1453.2	8.3	B3/2500		
BM (30°-60°)	4326.7	24.8	B3/5000		
BH (60°-80°)	2791.5	16.0	B4/5000		G4/5000
BVH (80°-90°)	71.1	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type I Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	89°
0°	2926.8	2926.8	2926.8	2926.8	2926.8	2926.8	2926.8	2926.8	2926.8	2926.8	2926.8
2.5°	2935.6	2933.1	2926.8	2945.6	2941.8	2943.1	2950.6	2945.6	2936.8	2921.8	2943.1
5°	3018.2	3017.0	3003.2	3014.5	3002.0	2993.2	2991.9	2979.4	2969.4	2953.1	2975.7
7.5°	3098.4	3097.1	3085.9	3105.9	3095.9	3085.9	3074.6	3049.5	3025.7	3002.0	3027.0
10°	3159.8	3158.5	3156.0	3184.8	3187.3	3191.1	3186.1	3143.5	3102.1	3073.3	3098.4
12.5°	3194.8	3198.6	3204.8	3257.4	3283.7	3308.8	3315.0	3280.0	3211.1	3169.8	3199.8
15°	3171.0	3178.5	3209.8	3305.0	3377.7	3434.0	3457.8	3429.0	3340.1	3271.2	3305.0
17.5°	3057.1	3063.3	3124.7	3270.0	3430.3	3560.5	3599.3	3581.8	3482.9	3399.0	3431.5
20°	2899.3	2913.0	2979.4	3182.3	3421.5	3648.2	3752.1	3745.9	3638.2	3509.2	3548.0
22.5°	2756.5	2772.8	2842.9	3067.1	3362.6	3670.7	3906.2	3922.5	3779.7	3619.4	3650.7
25°	2596.2	2611.2	2701.4	2930.6	3261.2	3653.2	4037.7	4111.6	3940.0	3745.9	3774.7
27.5°	2432.1	2443.4	2532.3	2776.5	3128.4	3620.6	4141.6	4319.5	4097.8	3833.5	3853.6
30°	2288.1	2303.1	2384.5	2622.5	2983.2	3555.5	4226.8	4541.1	4279.4	3932.5	3948.8
32.5°	2149.1	2161.6	2250.5	2470.9	2829.1	3455.3	4303.2	4801.6	4548.6	4116.6	4116.6
35°	1973.8	1996.3	2096.5	2325.7	2683.8	3322.6	4358.3	5104.7	4916.8	4388.3	4389.6
37.5°	1812.2	1824.7	1929.9	2161.6	2531.1	3172.3	4363.3	5419.0	5382.7	4734.0	4736.5
40°	1628.1	1644.4	1757.1	1986.3	2355.7	3014.5	4315.7	5712.1	5871.2	5089.7	5075.9
42.5°	1441.5	1465.3	1573.0	1797.2	2166.6	2821.6	4189.2	5991.4	6491.1	5501.7	5467.9
45°	1261.1	1276.2	1383.9	1595.5	1950.0	2591.2	3986.3	6259.4	7227.5	6127.9	6079.1
47.5°	1058.3	1064.5	1176.0	1378.9	1725.8	2334.4	3695.8	6498.6	8036.5	6957.0	6873.1
50°	877.9	886.7	974.4	1148.4	1451.5	2030.1	3333.8	6638.9	9067.2	8087.9	7942.6
52.5°	710.1	718.9	789.0	928.0	1199.8	1683.2	2885.5	6606.3	10113.0	9491.8	9280.1
55°	573.6	579.9	627.4	736.4	944.3	1338.8	2355.7	6314.5	11273.9	11325.3	10869.4
57.5°	484.7	487.2	519.7	586.1	737.7	1032.0	1818.5	5625.7	12491.2	13664.7	12915.8
60°	433.3	434.6	449.6	490.9	582.4	787.7	1332.5	4528.6	13752.4	16591.5	15564.6
62.5°	400.8	400.8	413.3	437.1	483.4	606.2	979.4	3252.4	14657.9	19776.3	18755.6
65°	369.5	369.5	378.2	398.3	423.3	494.7	735.1	2097.7	15102.4	22438.9	22212.2
67.5°	329.4	330.6	336.9	358.2	380.7	413.3	557.3	1418.9	14179.4	23175.3	24322.5
70°	291.8	293.1	301.8	315.6	334.4	356.9	435.8	978.1	10320.9	19301.7	21747.6
72.5°	250.5	255.5	261.7	276.8	288.0	304.3	355.7	633.7	6005.2	12416.1	14376.1
75°	205.4	211.7	219.2	234.2	241.7	248.0	293.1	452.1	2889.2	6292.0	7164.9
77.5°	159.1	165.3	174.1	187.9	192.9	200.4	224.2	326.9	1383.9	2789.0	3007.0
80°	106.5	109.0	116.5	132.8	141.5	146.5	165.3	222.9	601.1	1119.6	1109.6
82.5°	65.1	66.4	68.9	78.9	82.7	87.7	107.7	136.5	286.8	1272.4	1459.0
85°	23.8	22.5	21.3	27.6	32.6	37.6	50.1	68.9	125.2	874.2	978.1
87.5°	0.0	0.0	0.0	1.3	2.5	2.5	5.0	10.0	30.1	326.9	224.2
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°	2926.8	2926.8	2926.8	2926.8	2926.8	2926.8	2926.8	2926.8	2926.8	2926.8	2926.8
2.5°	2936.8	2923.1	2940.6	2953.1	2980.7	2990.7	2993.2	2984.4	2984.4	2969.4	2971.9
5°	2970.6	2961.9	2990.7	3012.0	3052.0	3067.1	3077.1	3070.8	3074.6	3064.6	3067.1
7.5°	3022.0	3014.5	3064.6	3105.9	3147.2	3164.8	3173.5	3168.5	3169.8	3157.2	3161.0
10°	3093.4	3095.9	3156.0	3209.8	3265.0	3282.5	3286.2	3271.2	3258.7	3236.1	3237.4
12.5°	3191.1	3203.6	3288.7	3348.9	3405.2	3430.3	3402.7	3347.6	3296.3	3257.4	3252.4
15°	3297.5	3320.1	3442.8	3519.2	3580.6	3568.0	3486.6	3362.6	3261.2	3203.6	3192.3
17.5°	3425.3	3459.1	3613.1	3704.5	3757.1	3677.0	3506.7	3321.3	3179.8	3102.1	3087.1
20°	3545.5	3599.3	3793.5	3912.4	3918.7	3738.4	3497.9	3237.4	3059.6	2964.4	2944.3
22.5°	3655.7	3724.6	3982.6	4134.1	4052.7	3765.9	3444.0	3118.4	2914.3	2802.8	2785.3
25°	3775.9	3873.6	4203.0	4344.5	4186.7	3754.6	3331.3	2970.6	2739.0	2625.0	2612.5
27.5°	3858.6	3981.3	4424.7	4559.9	4296.9	3690.8	3186.1	2809.1	2578.6	2470.9	2453.4
30°	3953.8	4110.3	4668.9	4794.1	4364.5	3596.8	3030.8	2658.8	2429.6	2313.1	2300.6
32.5°	4126.6	4323.2	4971.9	5042.1	4385.8	3480.4	2881.7	2513.5	2274.3	2157.8	2140.3
35°	4404.6	4635.1	5397.8	5318.9	4369.6	3352.6	2740.2	2343.2	2115.3	2006.3	1988.8
37.5°	4755.3	5042.1	5872.4	5568.1	4324.5	3212.4	2572.4	2200.4	1972.5	1862.3	1852.3
40°	5082.2	5435.3	6404.7	5783.5	4233.0	3039.5	2410.8	2051.4	1818.5	1702.0	1679.4
42.5°	5491.7	5961.3	7020.8	5970.1	4082.8	2832.9	2229.2	1867.3	1625.6	1520.4	1492.8
45°	6114.1	6697.7	7737.2	6149.2	3858.6	2578.6	2001.3	1643.1	1413.9	1306.2	1284.9
47.5°	6890.6	7618.2	8513.7	6255.6	3517.9	2310.6	1743.3	1406.4	1177.2	1055.8	1045.7
50°	7981.4	8957.0	9346.5	6236.9	3137.2	1992.5	1452.8	1124.6	933.0	845.4	831.6
52.5°	9310.2	10637.7	10247.0	6011.4	2732.7	1630.6	1132.2	882.9	740.2	677.5	666.3
55°	10977.1	12650.3	11195.0	5528.0	2221.7	1248.6	889.2	696.3	598.6	561.1	556.1
57.5°	13041.0	15256.5	12108.0	4714.0	1670.7	953.1	685.1	574.8	528.5	506.0	504.7
60°	15765.0	18023.0	12900.8	3663.2	1196.0	728.9	566.1	513.5	477.2	462.1	460.9
62.5°	19003.6	20535.3	13394.2	2494.7	899.2	581.1	498.4	465.9	444.6	435.8	434.6
65°	22332.4	22123.3	13158.8	1634.4	682.5	493.4	447.1	429.6	410.8	402.0	402.0
67.5°	24298.7	21787.6	11351.6	1134.7	541.0	433.3	403.3	387.0	355.7	348.2	348.2
70°	21522.1	17654.8	7440.4	830.3	438.3	379.5	350.7	328.1	315.6	308.1	306.8
72.5°	14234.5	11488.1	3956.3	576.1	365.7	323.1	296.8	288.0	273.0	265.5	264.3
75°	7084.7	6034.0	2027.6	415.8	304.3	259.2	248.0	244.2	231.7	221.7	219.2
77.5°	2953.1	2686.4	945.5	301.8	231.7	209.1	199.1	199.1	185.4	174.1	169.1
80°	1113.4	991.9	447.1	206.6	171.6	155.3	149.0	144.0	132.8	119.0	111.5
82.5°	1489.1	973.1	219.2	129.0	112.7	100.2	91.4	87.7	81.4	75.1	70.1
85°	964.3	691.3	98.9	66.4	56.4	42.6	37.6	35.1	31.3	27.6	25.0
87.5°	196.6	231.7	30.1	12.5	7.5	3.8	3.8	1.3	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)