

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: P637277

Luminaire Tested: GWS-SA4C-740-U-T1-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637277
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-SA4C-740-U-T1-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19376.1 lumens
Efficiency: N/A
Efficacy: 150.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Medium
BUG Rating: B4 - U0 - G4

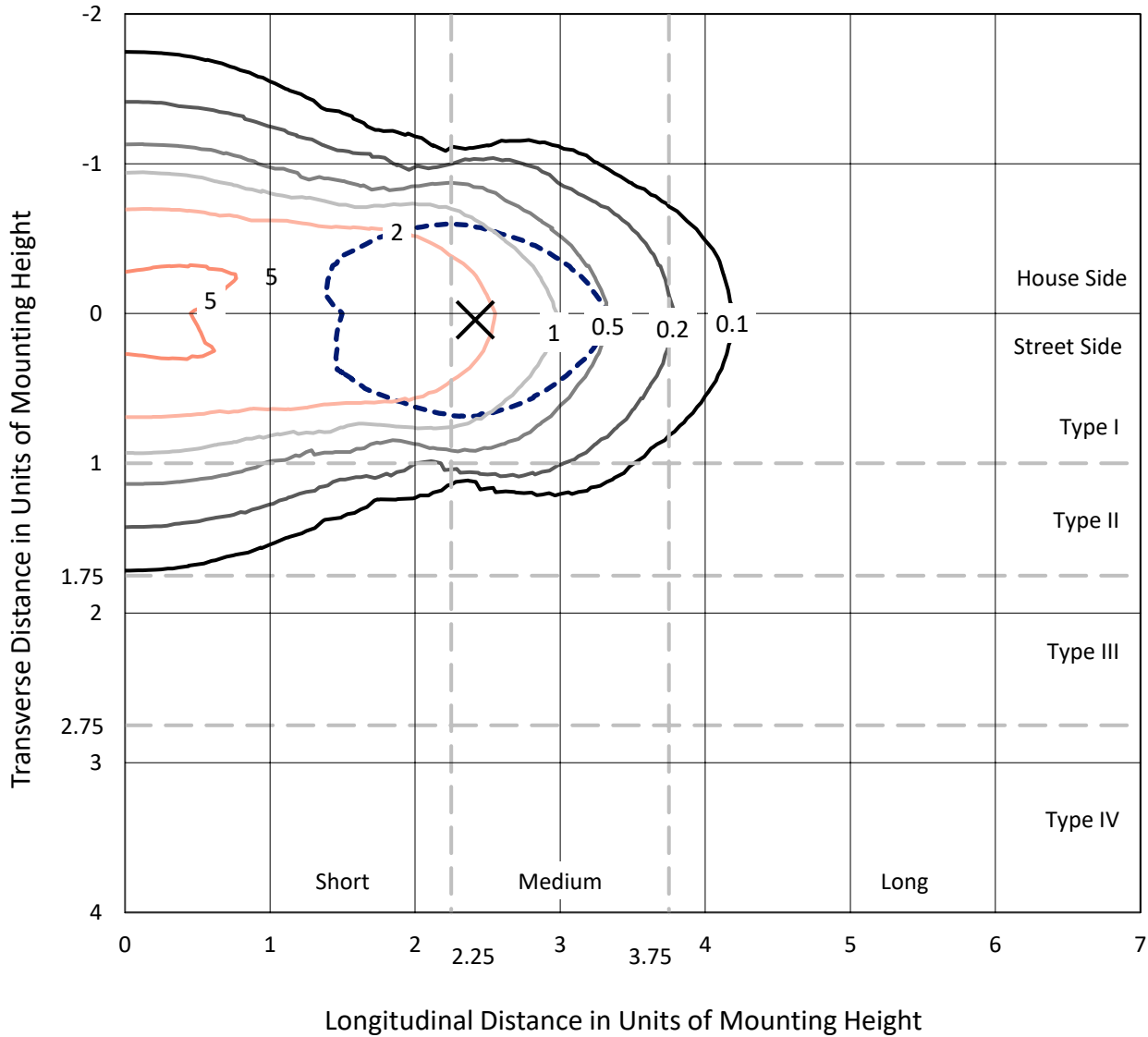
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P637277
 CATALOG NUMBER: GWS-SA4C-740-U-T1-W

Iso-Footcandle Lines of Horizontal Illumination

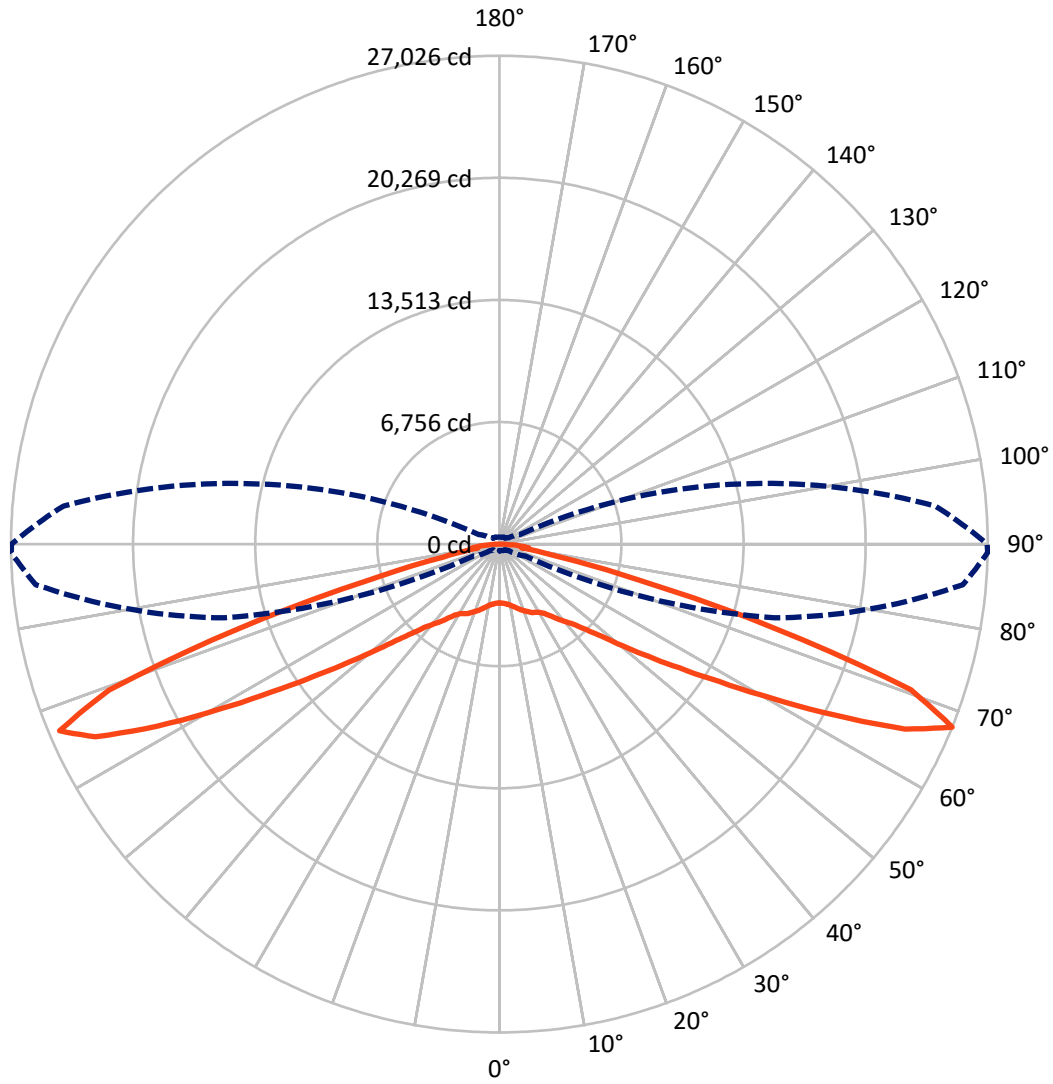
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type I - Medium - N/A

REPORT NUMBER: P637277
CATALOG NUMBER: GWS-SA4C-740-U-T1-W

Luminous Intensity Polar Plot



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

REPORT NUMBER: P637277

CATALOG NUMBER: GWS-SA4C-740-U-T1-W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9603.1	0.0	9603.1
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	9773.0	0.0	9773.0
	% Fixture	50.4	0.0	50.4
Total	Lumens	19376.1	0.0	19376.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	326.2	1.7
10°-20°	1062.2	5.5
20°-30°	1795.6	9.3
30°-40°	2464.2	12.7
40°-50°	3142.4	16.2
50°-60°	3942.7	20.3
60°-70°	4755.2	24.5
70°-80°	1720.3	8.9
80°-90°	167.3	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°	19376.1	100.0
0°-180°	19376.1	100.0

Coefficient of Utilization



REPORT NUMBER: P637277

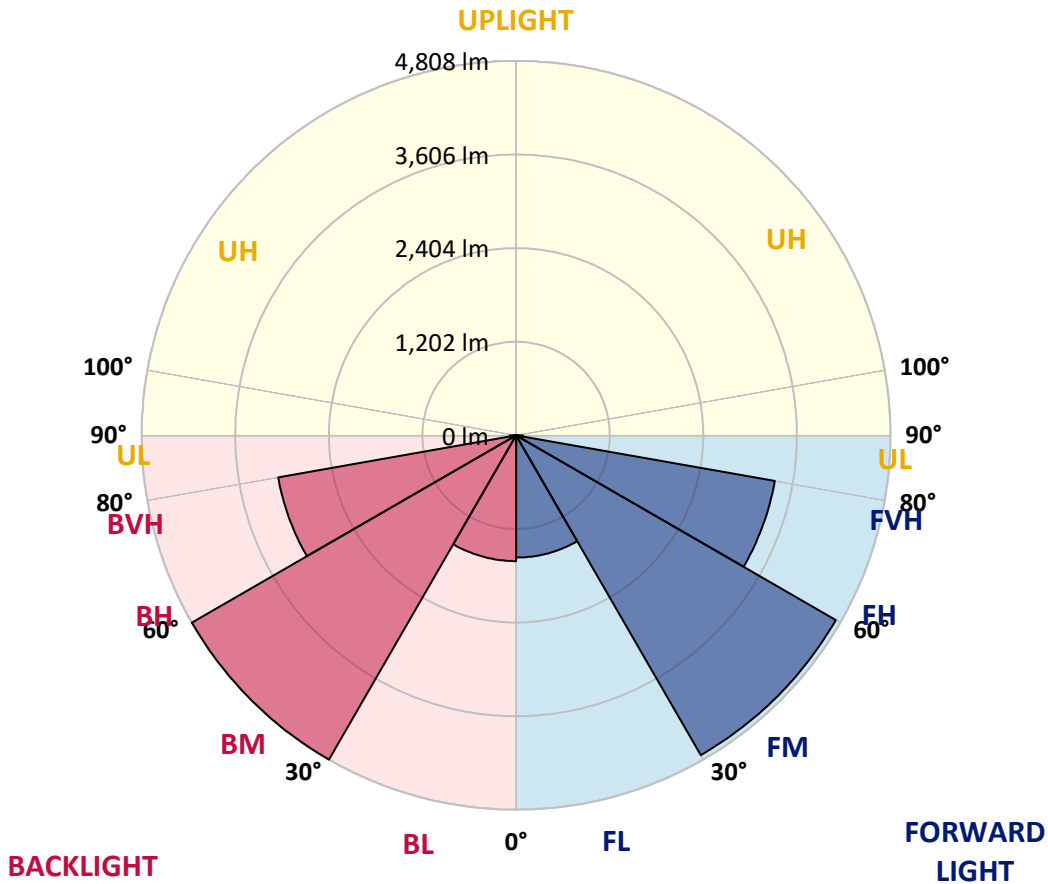
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1569.3	8.1			
FM (30°-60°)	4741.7	24.5			
FH (60°-80°)	3373.7	17.4			G2/5000
FVH (80°-90°)	88.3	0.5			G1/100
BL (0°-30°)	1614.7	8.3	B3/2500		
BM (30°-60°)	4807.6	24.8	B3/5000		
BH (60°-80°)	3101.8	16.0	B4/5000		G4/5000
BVH (80°-90°)	79.0	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





REPORT NUMBER: P637277

CATALOG NUMBER: GWS-SA4C-740-U-T1-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	89°
0°	3252.1	3252.1	3252.1	3252.1	3252.1	3252.1	3252.1	3252.1	3252.1	3252.1	3252.1
2.5°	3261.9	3259.1	3252.1	3273.0	3268.8	3270.2	3278.6	3273.0	3263.3	3246.6	3270.2
5°	3353.7	3352.3	3337.0	3349.5	3335.6	3325.9	3324.5	3310.6	3299.4	3281.3	3306.4
7.5°	3442.8	3441.4	3428.9	3451.1	3440.0	3428.9	3416.3	3388.5	3362.1	3335.6	3363.4
10°	3511.0	3509.6	3506.8	3538.8	3541.6	3545.7	3540.2	3492.9	3446.9	3414.9	3442.8
12.5°	3549.9	3554.1	3561.1	3619.5	3648.7	3676.6	3683.5	3644.5	3568.0	3522.1	3555.5
15°	3523.5	3531.8	3566.6	3672.4	3753.1	3815.7	3842.2	3810.1	3711.3	3634.8	3672.4
17.5°	3396.8	3403.8	3472.0	3633.4	3811.5	3956.3	3999.4	3979.9	3870.0	3776.7	3812.9
20°	3221.5	3236.8	3310.6	3536.0	3801.8	4053.7	4169.2	4162.2	4042.5	3899.2	3942.3
22.5°	3062.9	3081.0	3158.9	3408.0	3736.4	4078.7	4340.3	4358.4	4199.8	4021.7	4056.5
25°	2884.7	2901.4	3001.6	3256.3	3623.7	4059.2	4486.5	4568.6	4377.9	4162.2	4194.2
27.5°	2702.4	2715.0	2813.8	3085.1	3476.2	4023.1	4602.0	4799.6	4553.2	4259.6	4281.9
30°	2542.4	2559.1	2649.6	2914.0	3314.7	3950.7	4696.6	5045.9	4755.0	4369.6	4387.7
32.5°	2388.0	2401.9	2500.7	2745.6	3143.6	3839.4	4781.5	5335.3	5054.2	4574.1	4574.1
35°	2193.1	2218.2	2329.5	2584.2	2982.2	3691.9	4842.7	5672.1	5463.3	4876.1	4877.5
37.5°	2013.6	2027.5	2144.4	2401.9	2812.4	3524.9	4848.3	6021.4	5981.0	5260.2	5263.0
40°	1809.1	1827.1	1952.4	2207.0	2617.6	3349.5	4795.4	6347.0	6523.7	5655.4	5640.1
42.5°	1601.7	1628.1	1747.8	1996.9	2407.4	3135.2	4654.8	6657.3	7212.6	6113.2	6075.6
45°	1401.3	1418.0	1537.7	1772.9	2166.7	2879.2	4429.4	6955.1	8030.8	6809.0	6754.7
47.5°	1175.9	1182.8	1306.7	1532.1	1917.6	2593.9	4106.6	7220.9	8929.8	7730.2	7637.0
50°	975.5	985.2	1082.6	1276.1	1612.8	2255.8	3704.4	7376.8	10075.0	8986.8	8825.4
52.5°	789.0	798.8	876.7	1031.2	1333.1	1870.3	3206.2	7340.6	11237.0	10546.8	10311.6
55°	637.3	644.3	697.2	818.2	1049.3	1487.6	2617.6	7016.3	12527.0	12584.1	12077.5
57.5°	538.5	541.3	577.5	651.3	819.6	1146.7	2020.6	6251.0	13879.6	15183.5	14351.4
60°	481.5	482.9	499.6	545.5	647.1	875.3	1480.6	5032.0	15280.9	18435.7	17294.6
62.5°	445.3	445.3	459.2	485.7	537.1	673.5	1088.2	3613.9	16287.1	21974.4	20840.3
65°	410.5	410.5	420.3	442.5	470.4	549.7	816.9	2330.9	16781.1	24932.9	24681.1
67.5°	366.0	367.4	374.3	398.0	423.0	459.2	619.3	1576.7	15755.5	25751.2	27025.9
70°	324.2	325.6	335.4	350.7	371.6	396.6	484.3	1086.8	11468.0	21447.0	24164.8
72.5°	278.3	283.9	290.8	307.5	320.1	338.2	395.2	704.1	6672.6	13796.1	15973.9
75°	228.2	235.2	243.5	260.2	268.6	275.5	325.6	502.4	3210.4	6991.3	7961.2
77.5°	176.7	183.7	193.4	208.7	214.3	222.7	249.1	363.2	1537.7	3099.0	3341.2
80°	118.3	121.1	129.4	147.5	157.2	162.8	183.7	247.7	668.0	1244.1	1232.9
82.5°	72.4	73.8	76.5	87.7	91.8	97.4	119.7	151.7	318.7	1413.8	1621.2
85°	26.4	25.0	23.7	30.6	36.2	41.7	55.7	76.5	139.2	971.3	1086.8
87.5°	0.0	0.0	0.0	1.4	2.8	2.8	5.6	11.1	33.4	363.2	249.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P637277
 CATALOG NUMBER: GWS-SA4C-740-U-T1-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3252.1	3252.1	3252.1	3252.1	3252.1	3252.1	3252.1	3252.1	3252.1	3252.1	3252.1
2.5°	3263.3	3247.9	3267.4	3281.3	3312.0	3323.1	3325.9	3316.1	3316.1	3299.4	3302.2
5°	3300.8	3291.1	3323.1	3346.7	3391.3	3408.0	3419.1	3412.2	3416.3	3405.2	3408.0
7.5°	3357.9	3349.5	3405.2	3451.1	3497.0	3516.5	3526.3	3520.7	3522.1	3508.2	3512.3
10°	3437.2	3440.0	3506.8	3566.6	3627.8	3647.3	3651.5	3634.8	3620.9	3595.8	3597.2
12.5°	3545.7	3559.7	3654.3	3721.1	3783.7	3811.5	3780.9	3719.7	3662.6	3619.5	3613.9
15°	3664.0	3689.1	3825.5	3910.3	3978.5	3964.6	3874.2	3736.4	3623.7	3559.7	3547.1
17.5°	3806.0	3843.5	4014.7	4116.3	4174.7	4085.7	3896.4	3690.5	3533.2	3446.9	3430.2
20°	3939.6	3999.4	4215.1	4347.3	4354.3	4153.9	3886.7	3597.2	3399.6	3293.9	3271.6
22.5°	4062.0	4138.6	4425.2	4593.6	4503.2	4184.5	3826.8	3465.0	3238.2	3114.4	3094.9
25°	4195.6	4304.2	4670.1	4827.4	4652.1	4172.0	3701.6	3300.8	3043.4	2916.8	2902.8
27.5°	4287.5	4423.8	4916.5	5066.7	4774.5	4101.0	3540.2	3121.3	2865.3	2745.6	2726.1
30°	4393.2	4567.2	5187.8	5327.0	4849.7	3996.6	3367.6	2954.3	2699.7	2570.2	2556.3
32.5°	4585.3	4803.7	5524.6	5602.5	4873.3	3867.2	3202.0	2792.9	2527.1	2397.7	2378.2
35°	4894.2	5150.2	5997.7	5910.0	4855.2	3725.3	3044.8	2603.6	2350.4	2229.3	2209.8
37.5°	5283.8	5602.5	6525.1	6187.0	4805.1	3569.4	2858.3	2445.0	2191.7	2069.3	2058.1
40°	5647.0	6039.5	7116.5	6426.3	4703.5	3377.4	2678.8	2279.4	2020.6	1891.2	1866.1
42.5°	6102.1	6623.9	7801.2	6633.7	4536.6	3147.8	2477.0	2074.8	1806.3	1689.4	1658.8
45°	6793.7	7442.2	8597.2	6832.7	4287.5	2865.3	2223.7	1825.8	1571.1	1451.4	1427.8
47.5°	7656.5	8465.0	9460.0	6950.9	3908.9	2567.5	1937.1	1562.7	1308.1	1173.1	1162.0
50°	8868.5	9952.6	10385.4	6930.1	3485.9	2214.0	1614.2	1249.6	1036.7	939.3	924.0
52.5°	10345.0	11820.1	11385.9	6679.6	3036.4	1811.8	1258.0	981.1	822.4	752.8	740.3
55°	12197.2	14056.3	12439.3	6142.4	2468.7	1387.4	988.0	773.7	665.2	623.4	617.9
57.5°	14490.5	16952.2	13453.8	5237.9	1856.4	1059.0	761.2	638.7	587.2	562.2	560.8
60°	17517.2	20026.2	14334.7	4070.4	1329.0	809.9	629.0	570.5	530.2	513.5	512.1
62.5°	21115.8	22817.7	14882.9	2772.0	999.2	645.7	553.8	517.7	494.0	484.3	482.9
65°	24814.7	24582.3	14621.3	1816.0	758.4	548.3	496.8	477.3	456.4	446.7	446.7
67.5°	26999.4	24209.3	12613.3	1260.8	601.2	481.5	448.1	430.0	395.2	386.9	386.9
70°	23914.3	19617.1	8267.4	922.6	487.1	421.6	389.6	364.6	350.7	342.3	340.9
72.5°	15816.7	12765.0	4396.0	640.1	406.3	359.0	329.8	320.1	303.4	295.0	293.6
75°	7872.2	6704.6	2253.0	462.0	338.2	288.1	275.5	271.4	257.4	246.3	243.5
77.5°	3281.3	2984.9	1050.6	335.4	257.4	232.4	221.3	221.3	206.0	193.4	187.9
80°	1237.1	1102.1	496.8	229.6	190.6	172.6	165.6	160.0	147.5	132.2	123.9
82.5°	1654.6	1081.3	243.5	143.3	125.2	111.3	101.6	97.4	90.5	83.5	77.9
85°	1071.5	768.2	109.9	73.8	62.6	47.3	41.7	39.0	34.8	30.6	27.8
87.5°	218.5	257.4	33.4	13.9	8.3	4.2	4.2	1.4	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)