

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: P641667

Luminaire Tested: GWS-SA6B-735-U-SL4-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641667
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-SA6B-735-U-SL4-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16453.5 lumens
Efficiency: N/A
Efficacy: 118.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

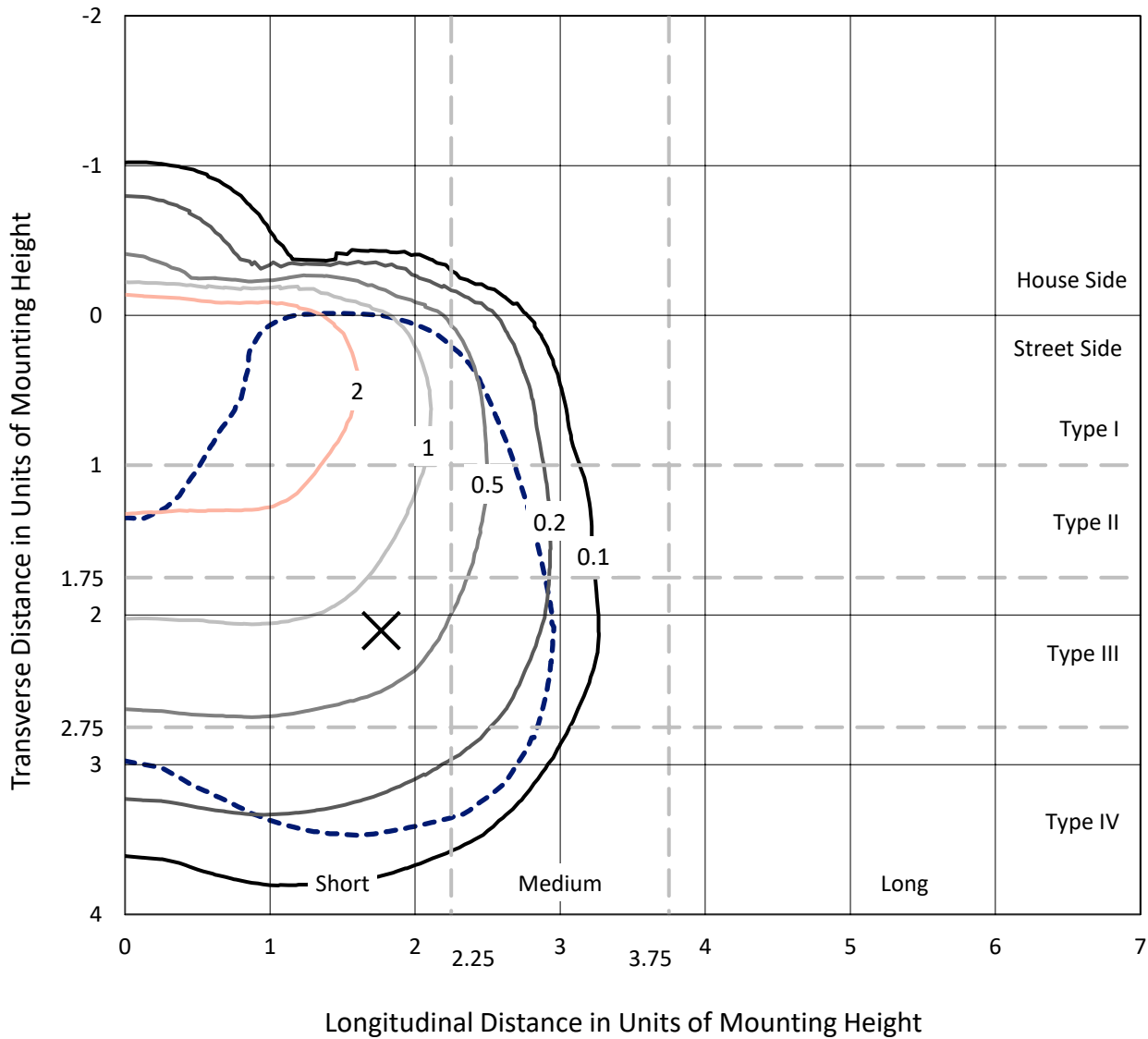
Input Watts (W): 138.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

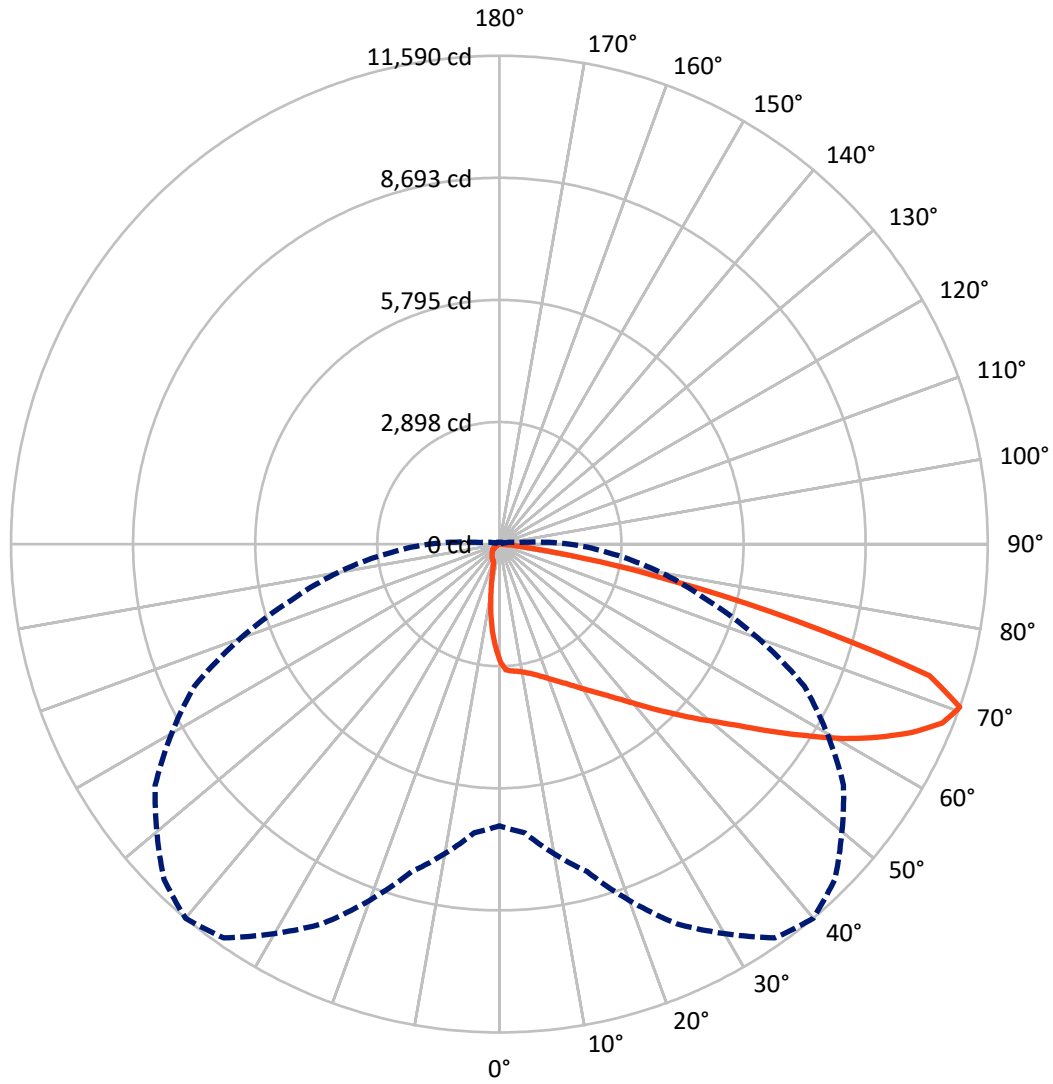
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type 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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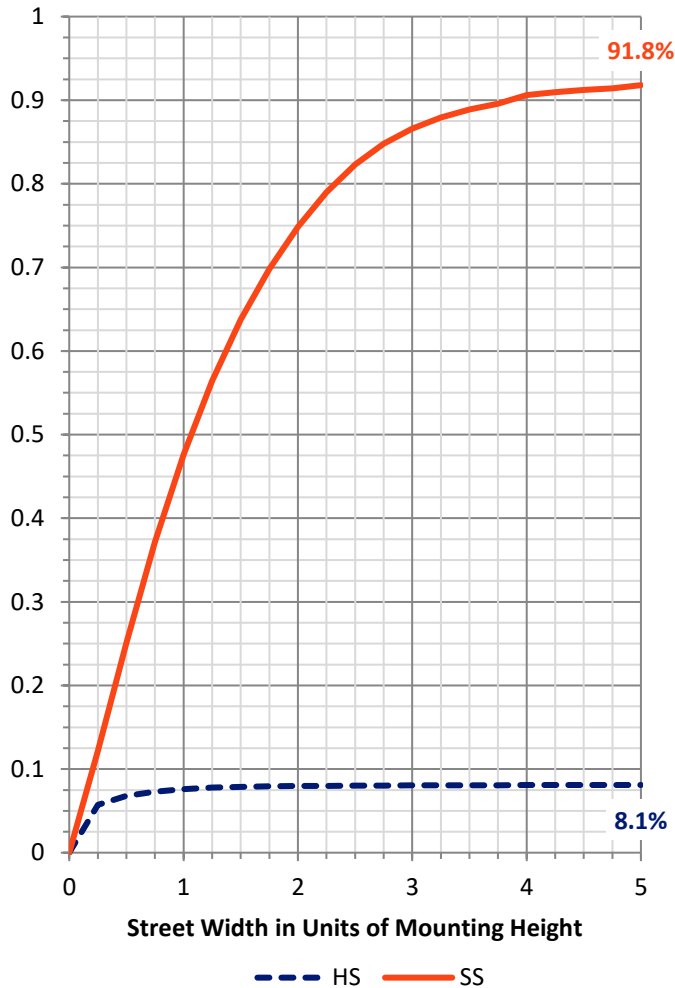
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1345.5	0.0	1345.5
	% Fixture	8.2	0.0	8.2
Street Side	Lumens	15108.0	0.0	15108.0
	% Fixture	91.8	0.0	91.8
Total	Lumens	16453.5	0.0	16453.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.0	1.4
10°-20°	598.5	3.6
20°-30°	1001.7	6.1
30°-40°	1573.3	9.6
40°-50°	2488.5	15.1
50°-60°	3630.1	22.1
60°-70°	4500.1	27.4
70°-80°	2276.8	13.8
80°-90°	148.6	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°	16453.5	100.0
0°-180°	16453.5	100.0

Coefficient of Utilization

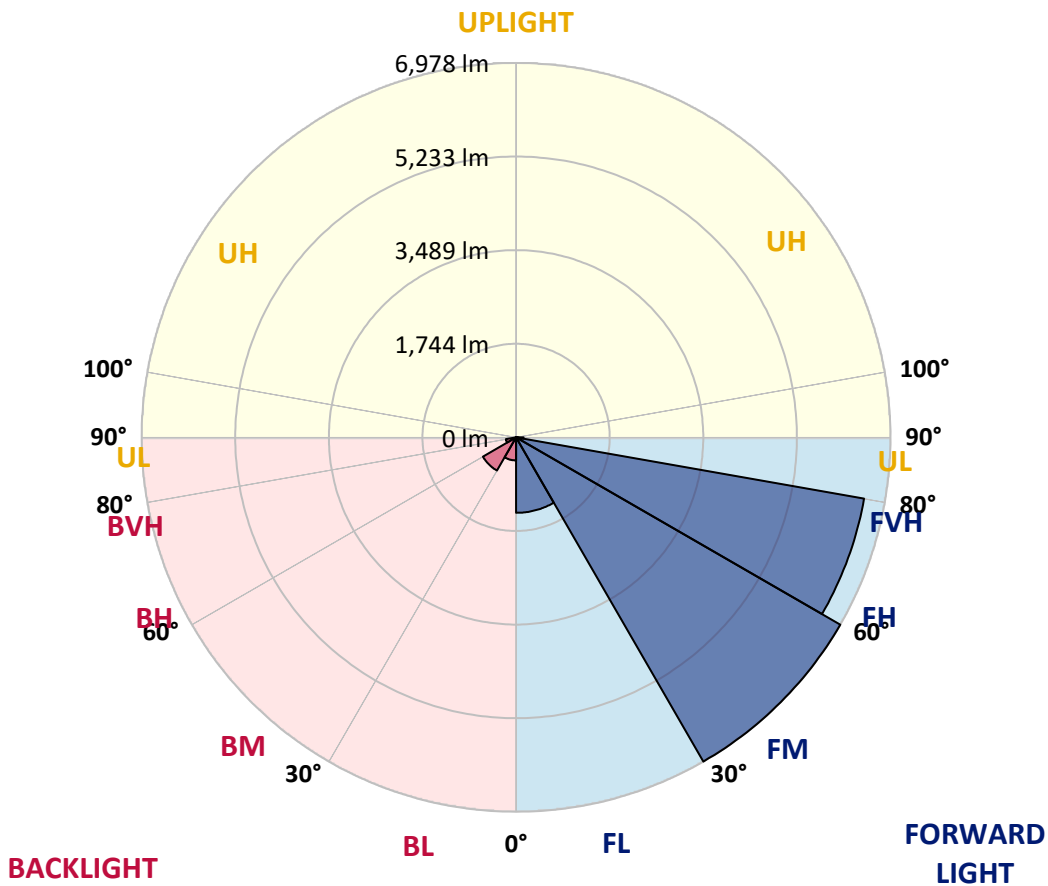


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1406.5	8.5			
FM (30°-60°)	6977.7	42.4			
FH (60°-80°)	6585.0	40.0			G3/7500
FVH (80°-90°)	138.8	0.8			G2/225
BL (0°-30°)	429.7	2.6	B1/500		
BM (30°-60°)	714.2	4.3	B1/1000		
BH (60°-80°)	191.8	1.2	B1/500		G1/500
BVH (80°-90°)	9.8	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°	2792.0	2792.0	2792.0	2792.0	2792.0	2792.0	2792.0	2792.0	2792.0	2792.0	2792.0
2.5°	3001.5	3012.0	3010.5	3015.0	3004.5	2988.1	2985.1	2962.6	2922.2	2871.3	2814.4
5°	3062.9	3074.9	3065.9	3061.4	3042.0	3024.0	3019.5	2995.6	2949.1	2880.3	2781.5
7.5°	3115.3	3118.3	3112.3	3101.8	3073.4	3049.5	3033.0	3000.0	2944.7	2875.8	2762.0
10°	3124.3	3122.8	3125.8	3127.3	3109.3	3088.4	3074.9	3030.0	2959.6	2886.3	2763.5
12.5°	3113.8	3113.8	3133.3	3155.7	3155.7	3145.3	3131.8	3091.4	3009.0	2922.2	2793.5
15°	3127.3	3131.8	3169.2	3211.1	3224.6	3214.1	3208.1	3166.2	3080.9	2985.1	2847.4
17.5°	3175.2	3179.7	3239.6	3302.4	3318.9	3306.9	3295.0	3253.0	3161.7	3056.9	2908.7
20°	3245.6	3257.5	3333.9	3414.7	3429.7	3414.7	3390.8	3332.4	3241.1	3134.8	2967.1
22.5°	3374.3	3381.8	3464.1	3549.5	3556.9	3533.0	3497.1	3416.2	3320.4	3217.1	3033.0
25°	3545.0	3555.4	3637.8	3720.1	3700.7	3664.7	3615.3	3524.0	3414.7	3314.4	3116.8
27.5°	3748.6	3760.5	3841.4	3913.2	3862.3	3820.4	3765.0	3651.3	3540.5	3449.2	3224.6
30°	3968.6	3979.1	4051.0	4115.3	4048.0	3998.6	3932.7	3815.9	3703.7	3634.8	3377.3
32.5°	4181.2	4179.7	4248.6	4301.0	4232.1	4193.2	4133.3	4015.0	3925.2	3895.3	3604.8
35°	4378.8	4378.8	4435.7	4488.1	4438.7	4417.7	4362.3	4268.0	4217.1	4253.1	3908.7
37.5°	4577.9	4567.4	4621.3	4679.7	4675.2	4676.7	4645.3	4600.4	4603.4	4730.6	4326.4
40°	4742.6	4738.1	4801.0	4877.3	4937.2	4985.1	4965.6	4982.1	5076.4	5314.5	4860.9
42.5°	4874.3	4884.8	4965.6	5086.9	5238.1	5335.4	5348.9	5416.3	5658.8	6027.0	5464.2
45°	5025.5	5027.0	5139.3	5324.9	5566.0	5720.2	5774.0	5947.7	6292.0	6766.6	6125.8
47.5°	5211.2	5193.2	5318.9	5579.4	5928.2	6155.8	6251.6	6468.7	7001.6	7488.1	6664.8
50°	5416.3	5383.3	5525.5	5880.3	6333.9	6618.4	6813.0	7130.4	7705.2	8081.0	7066.0
52.5°	5654.3	5622.8	5784.5	6226.1	6820.5	7166.3	7416.3	7736.7	8308.5	8533.1	7305.5
55°	5956.7	5925.2	6095.9	6640.8	7395.3	7844.4	8106.4	8375.9	8869.9	8866.9	7479.2
57.5°	6292.0	6248.6	6485.1	7164.8	8112.4	8579.5	8846.0	8977.7	9296.6	9125.9	7595.9
60°	6676.8	6637.8	6965.7	7789.0	8940.3	9372.9	9540.6	9486.7	9646.9	9278.6	7555.5
62.5°	7024.1	7006.1	7413.3	8450.7	9729.2	10094.5	10140.9	9905.9	9904.4	9281.6	7283.1
65°	7384.9	7419.3	8024.1	9212.7	10522.6	10768.1	10688.8	10322.0	10007.6	8914.8	6477.7
67.5°	7519.6	7619.9	8426.8	9901.4	11148.4	11340.0	11200.8	10530.1	9578.0	7681.3	4932.7
70°	6687.2	6875.9	8046.5	9940.3	11407.4	11590.0	11256.2	9970.2	7985.2	5088.4	2702.1
72.5°	5085.4	5305.5	6705.2	8139.4	10259.1	10675.3	10105.0	8122.9	5146.8	2229.1	907.2
75°	2845.9	3083.9	4994.1	6128.8	6887.8	7268.1	7058.5	5211.2	2280.0	582.3	271.0
77.5°	962.6	1041.9	2323.4	3792.0	4546.5	4205.2	3559.9	2588.4	838.3	221.6	143.7
80°	570.4	600.3	865.3	1887.8	2392.3	1983.6	1565.9	956.6	426.7	118.3	100.3
82.5°	170.7	202.1	477.6	700.6	937.1	583.8	494.0	546.4	221.6	64.4	83.8
85°	0.0	0.0	101.8	217.1	245.5	95.8	95.8	309.9	40.4	26.9	61.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.5	7.5	4.5	6.0	13.5
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°	2792.0	2792.0	2792.0	2792.0	2792.0	2792.0	2792.0	2792.0	2792.0	2792.0	2792.0
2.5°	2774.0	2721.6	2660.2	2601.8	2546.4	2474.6	2440.2	2398.2	2362.3	2342.9	2353.3
5°	2718.6	2636.3	2510.5	2383.3	2254.5	2133.3	2024.0	1950.6	1884.8	1850.3	1857.8
7.5°	2670.7	2559.9	2363.8	2155.7	1949.1	1741.0	1571.9	1440.1	1338.3	1296.4	1288.9
10°	2649.7	2510.5	2233.6	1934.2	1616.8	1336.8	1097.3	952.1	848.8	797.9	806.9
12.5°	2660.2	2485.1	2122.8	1717.1	1305.4	979.1	750.0	613.8	540.4	510.5	503.0
15°	2690.2	2479.1	2024.0	1495.5	1007.5	684.1	518.0	462.6	447.6	444.6	444.6
17.5°	2724.6	2480.6	1922.2	1271.0	765.0	507.5	443.1	432.6	428.2	425.2	426.7
20°	2759.0	2480.6	1805.4	1043.4	574.9	438.6	422.2	414.7	410.2	408.7	408.7
22.5°	2800.9	2480.6	1675.2	832.3	461.1	416.2	402.7	398.2	393.7	392.2	390.7
25°	2851.8	2482.1	1531.5	651.2	419.2	396.7	386.2	381.7	377.3	374.3	374.3
27.5°	2925.2	2494.1	1372.8	507.5	395.2	378.7	369.8	365.3	360.8	356.3	356.3
30°	3031.5	2524.0	1194.6	419.2	372.8	359.3	350.3	347.3	342.8	338.3	336.8
32.5°	3190.2	2576.4	1010.5	375.8	351.8	338.3	327.8	324.9	320.4	315.9	314.4
35°	3411.7	2672.2	830.9	348.8	324.9	311.4	305.4	303.9	297.9	293.4	293.4
37.5°	3736.6	2827.9	658.7	321.9	302.4	291.9	284.4	281.4	275.5	271.0	269.5
40°	4133.3	3030.0	512.0	300.9	281.4	271.0	263.5	259.0	251.5	245.5	242.5
42.5°	4639.3	3277.0	404.2	278.4	262.0	251.5	245.5	236.5	226.1	217.1	215.6
45°	5166.3	3531.5	333.8	257.5	244.0	235.0	227.5	215.6	200.6	190.1	187.1
47.5°	5570.5	3690.2	291.9	235.0	224.6	217.1	208.1	193.1	175.2	163.2	160.2
50°	5859.4	3714.1	260.5	214.1	208.1	200.6	187.1	169.2	149.7	137.7	134.7
52.5°	6001.6	3606.3	235.0	194.6	190.1	182.6	166.2	146.7	125.8	113.8	110.8
55°	6066.0	3402.8	211.1	178.1	172.2	163.2	145.2	124.3	103.3	92.8	89.8
57.5°	6040.5	3101.8	190.1	161.7	154.2	143.7	124.3	101.8	85.3	74.9	73.4
60°	5851.9	2679.7	169.2	145.2	136.2	124.3	104.8	83.8	68.9	61.4	59.9
62.5°	5444.7	2155.7	148.2	125.8	119.8	107.8	89.8	68.9	56.9	52.4	50.9
65°	4610.9	1524.0	127.2	106.3	103.3	91.3	74.9	56.9	49.4	46.4	44.9
67.5°	3314.4	926.7	107.8	91.3	88.3	77.8	62.9	49.4	44.9	43.4	43.4
70°	1666.2	438.6	85.3	74.9	74.9	64.4	53.9	44.9	43.4	41.9	41.9
72.5°	565.9	187.1	64.4	58.4	61.4	55.4	46.4	41.9	41.9	41.9	41.9
75°	193.1	98.8	44.9	41.9	44.9	44.9	40.4	40.4	41.9	41.9	41.9
77.5°	125.8	65.9	31.4	28.4	34.4	34.4	34.4	37.4	40.4	40.4	40.4
80°	103.3	35.9	21.0	19.5	25.4	25.4	28.4	34.4	37.4	37.4	37.4
82.5°	88.3	22.5	12.0	13.5	18.0	19.5	24.0	28.4	32.9	34.4	34.4
85°	59.9	12.0	9.0	10.5	12.0	15.0	19.5	24.0	26.9	29.9	29.9
87.5°	16.5	4.5	6.0	7.5	7.5	10.5	15.0	18.0	21.0	22.5	22.5
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)