

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: P641722

Luminaire Tested: GWS-SA6B-740-U-SL4-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641722
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-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16682.1 lumens
Efficiency: N/A
Efficacy: 120.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

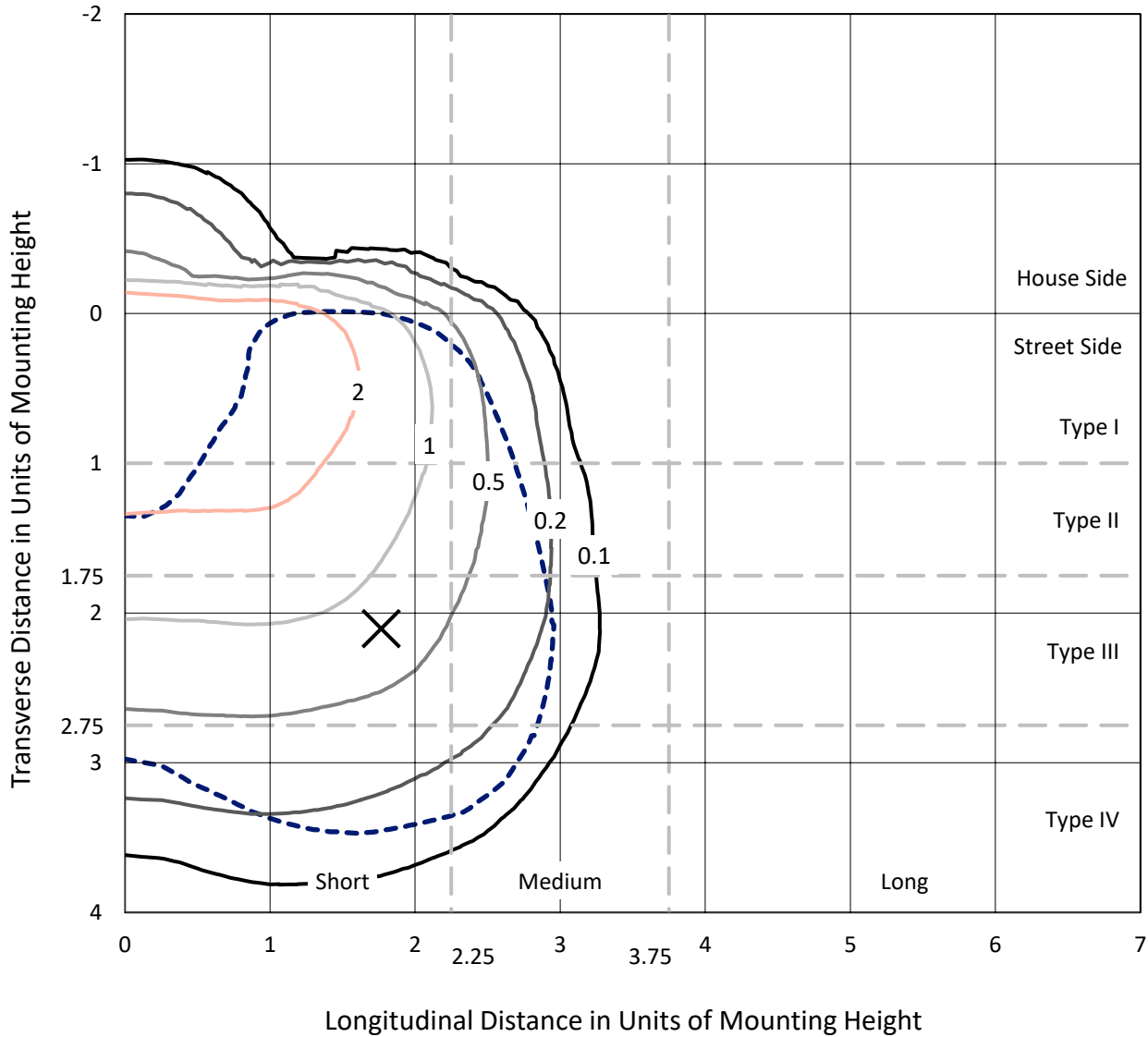
Input Watts (W): 138.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

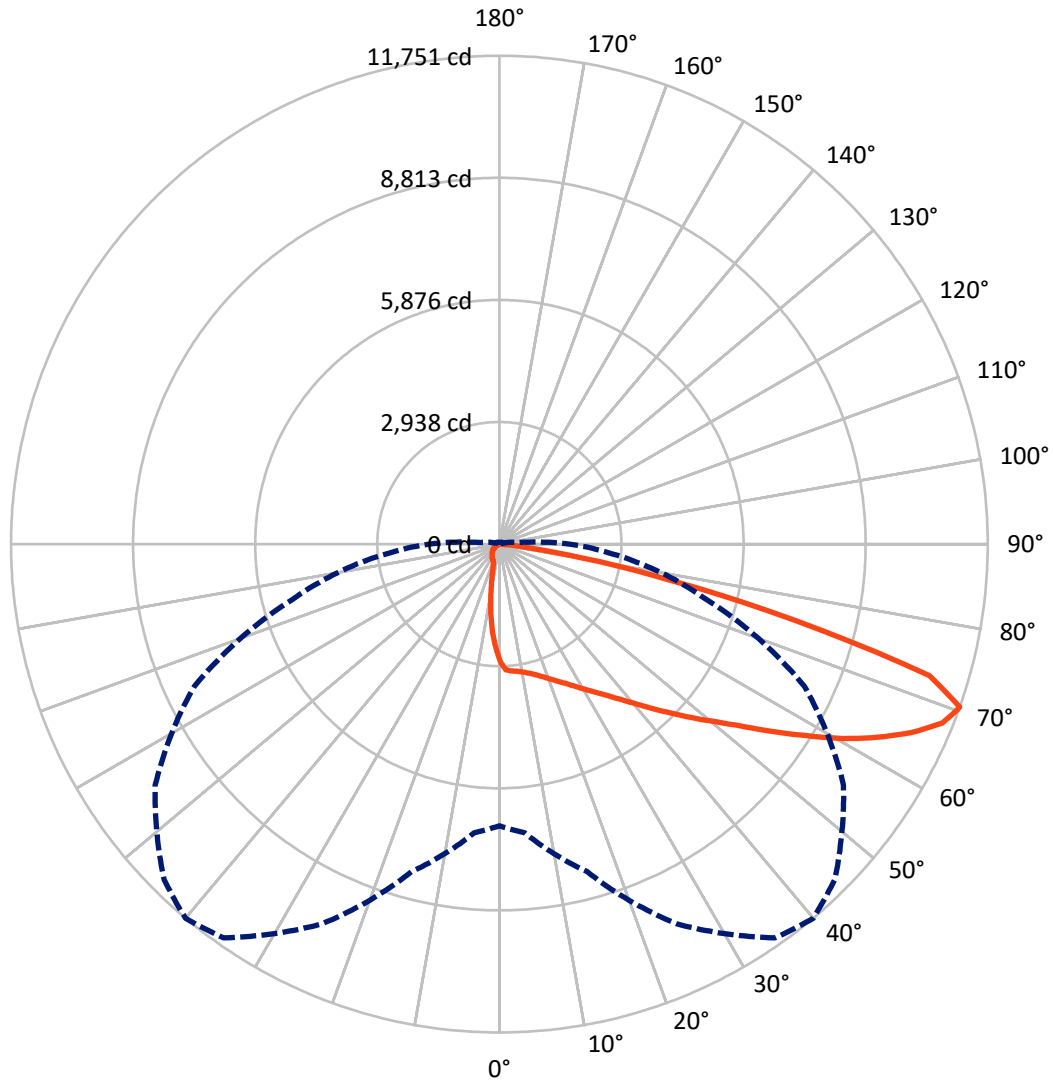
✕ Max cd
 - - - 1/2 Max cd



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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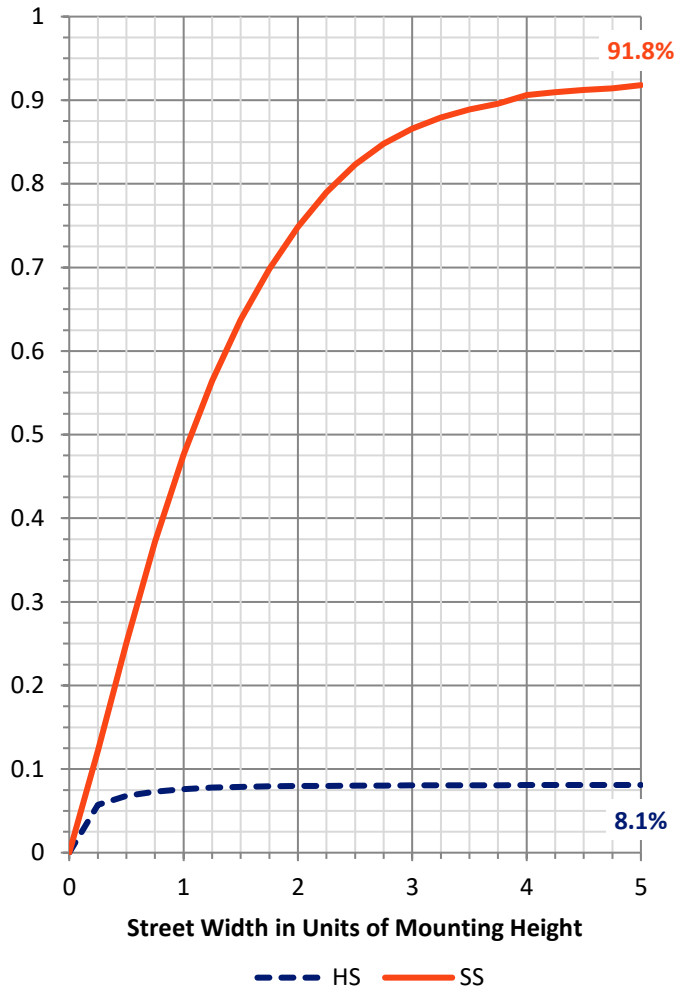
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1364.2	0.0	1364.2
	% Fixture	8.2	0.0	8.2
Street Side	Lumens	15317.9	0.0	15317.9
	% Fixture	91.8	0.0	91.8
Total	Lumens	16682.1	0.0	16682.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.3	1.4
10°-20°	606.8	3.6
20°-30°	1015.6	6.1
30°-40°	1595.1	9.6
40°-50°	2523.1	15.1
50°-60°	3680.6	22.1
60°-70°	4562.6	27.4
70°-80°	2308.4	13.8
80°-90°	150.7	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°	16682.1	100.0
0°-180°	16682.1	100.0

Coefficient of Utilization



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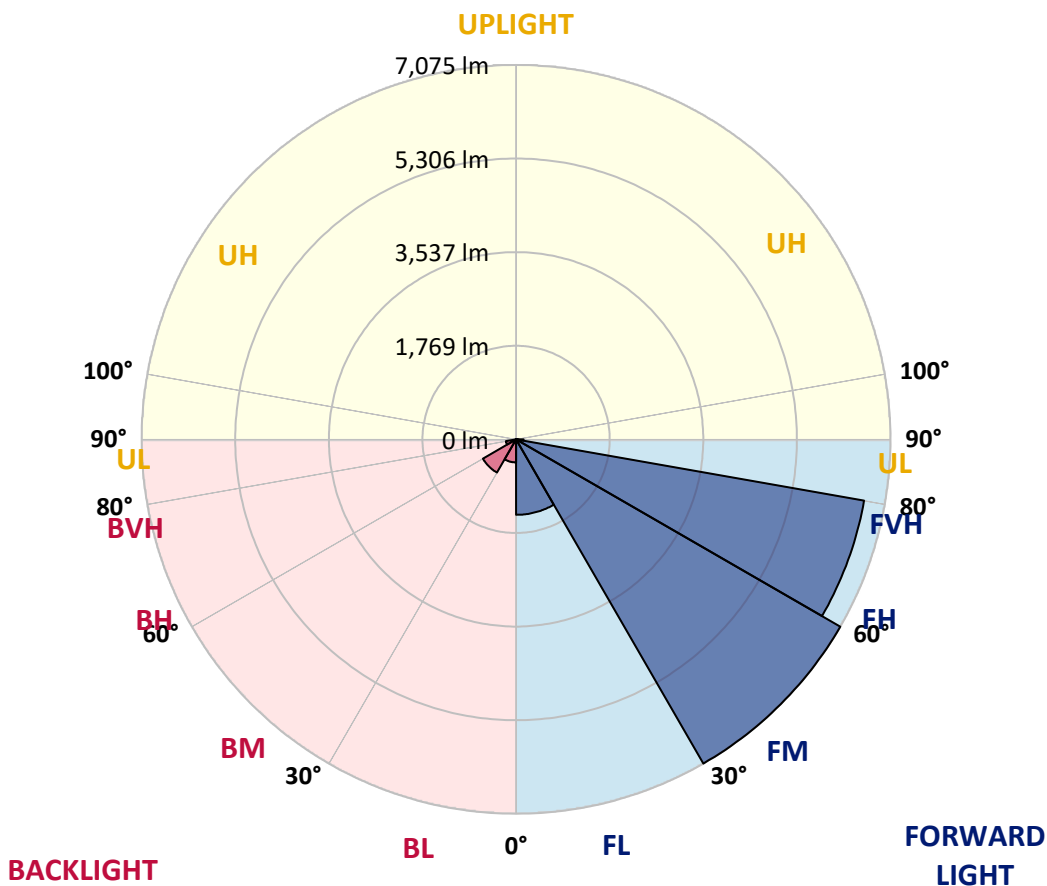
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1426.0	8.5			
FM (30°-60°)	7074.7	42.4			
FH (60°-80°)	6676.5	40.0			G3/7500
FVH (80°-90°)	140.8	0.8			G2/225
BL (0°-30°)	435.6	2.6	B1/500		
BM (30°-60°)	724.1	4.3	B1/1000		
BH (60°-80°)	194.5	1.2	B1/500		G1/500
BVH (80°-90°)	9.9	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°	2830.8	2830.8	2830.8	2830.8	2830.8	2830.8	2830.8	2830.8	2830.8	2830.8	2830.8
2.5°	3043.2	3053.9	3052.4	3056.9	3046.3	3029.6	3026.6	3003.8	2962.8	2911.2	2853.5
5°	3105.5	3117.6	3108.5	3104.0	3084.2	3066.0	3061.5	3037.2	2990.1	2920.3	2820.1
7.5°	3158.6	3161.6	3155.6	3144.9	3116.1	3091.8	3075.1	3041.7	2985.6	2915.8	2800.4
10°	3167.7	3166.2	3169.2	3170.7	3152.5	3131.3	3117.6	3072.1	3000.7	2926.4	2801.9
12.5°	3157.1	3157.1	3176.8	3199.6	3199.6	3189.0	3175.3	3134.3	3050.8	2962.8	2832.3
15°	3170.7	3175.3	3213.2	3255.7	3269.4	3258.8	3252.7	3210.2	3123.7	3026.6	2886.9
17.5°	3219.3	3223.9	3284.6	3348.3	3365.0	3352.9	3340.7	3298.2	3205.7	3099.4	2949.1
20°	3290.7	3302.8	3380.2	3462.2	3477.3	3462.2	3437.9	3378.7	3286.1	3178.3	3008.3
22.5°	3421.2	3428.8	3512.3	3598.8	3606.4	3582.1	3545.7	3463.7	3366.5	3261.8	3075.1
25°	3594.2	3604.8	3688.3	3771.8	3752.1	3715.6	3665.6	3573.0	3462.2	3360.5	3160.1
27.5°	3800.6	3812.8	3894.8	3967.6	3916.0	3873.5	3817.3	3702.0	3589.7	3497.1	3269.4
30°	4023.8	4034.4	4107.2	4172.5	4104.2	4054.1	3987.3	3868.9	3755.1	3685.3	3424.2
32.5°	4239.3	4237.8	4307.6	4360.7	4290.9	4251.4	4190.7	4070.8	3979.7	3949.4	3654.9
35°	4439.7	4439.7	4497.3	4550.5	4500.4	4479.1	4423.0	4327.3	4275.7	4312.2	3963.1
37.5°	4641.5	4630.9	4685.5	4744.7	4740.2	4741.7	4709.8	4664.3	4667.3	4796.3	4386.5
40°	4808.5	4803.9	4867.7	4945.1	5005.8	5054.4	5034.6	5051.3	5147.0	5388.3	4928.4
42.5°	4942.1	4952.7	5034.6	5157.6	5310.9	5409.5	5423.2	5491.5	5737.4	6110.8	5540.1
45°	5095.4	5096.9	5210.7	5398.9	5643.3	5799.6	5854.3	6030.3	6379.4	6860.6	6211.0
47.5°	5283.6	5265.4	5392.8	5657.0	6010.6	6241.3	6338.5	6558.5	7098.9	7592.2	6757.4
50°	5491.5	5458.1	5602.3	5962.0	6421.9	6710.3	6907.6	7229.4	7812.3	8193.2	7164.2
52.5°	5732.8	5701.0	5864.9	6312.7	6915.2	7265.9	7519.3	7844.1	8424.0	8651.6	7407.0
55°	6039.4	6007.6	6180.6	6733.1	7498.1	7953.4	8219.0	8492.3	8993.1	8990.1	7583.1
57.5°	6379.4	6335.4	6575.2	7264.3	8225.1	8698.7	8968.9	9102.4	9425.7	9252.7	7701.5
60°	6769.5	6730.1	7062.5	7897.3	9064.5	9503.1	9673.1	9618.5	9780.9	9407.5	7660.5
62.5°	7121.7	7103.4	7516.3	8568.1	9864.4	10234.7	10281.8	10043.5	10042.0	9410.5	7384.2
65°	7487.5	7522.4	8135.6	9340.7	10668.8	10917.7	10837.3	10465.4	10146.7	9038.7	6567.6
67.5°	7624.1	7725.8	8543.9	10038.9	11303.3	11497.6	11356.4	10676.4	9711.1	7788.0	5001.2
70°	6780.1	6971.4	8158.3	10078.4	11565.9	11751.0	11412.6	10108.7	8096.1	5159.1	2739.7
72.5°	5156.1	5379.2	6798.4	8252.4	10401.7	10823.6	10245.4	8235.7	5218.3	2260.0	919.8
75°	2885.4	3126.7	5063.5	6214.0	6983.5	7369.1	7156.6	5283.6	2311.7	590.4	274.7
77.5°	976.0	1056.4	2355.7	3844.7	4609.6	4263.6	3609.4	2624.3	850.0	224.6	145.7
80°	578.3	608.6	877.3	1914.0	2425.5	2011.1	1587.6	969.9	432.6	119.9	101.7
82.5°	173.0	204.9	484.2	710.3	950.2	592.0	500.9	554.0	224.6	65.3	85.0
85°	0.0	0.0	103.2	220.1	248.9	97.1	97.1	314.2	41.0	27.3	62.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.5	7.6	4.6	6.1	13.7
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°	2830.8	2830.8	2830.8	2830.8	2830.8	2830.8	2830.8	2830.8	2830.8	2830.8	2830.8
2.5°	2812.5	2759.4	2697.2	2638.0	2581.8	2509.0	2474.1	2431.6	2395.1	2375.4	2386.0
5°	2756.4	2672.9	2545.4	2416.4	2285.9	2162.9	2052.1	1977.7	1910.9	1876.0	1883.6
7.5°	2707.8	2595.5	2396.7	2185.7	1976.2	1765.2	1593.7	1460.2	1356.9	1314.4	1306.9
10°	2686.6	2545.4	2264.6	1961.0	1639.3	1355.4	1112.6	965.3	860.6	809.0	818.1
12.5°	2697.2	2519.6	2152.3	1741.0	1323.5	992.7	760.4	622.3	547.9	517.6	510.0
15°	2727.5	2513.5	2052.1	1516.3	1021.5	693.6	525.2	469.0	453.8	450.8	450.8
17.5°	2762.5	2515.0	1948.9	1288.6	775.6	514.5	449.3	438.7	434.1	431.1	432.6
20°	2797.4	2515.0	1830.5	1057.9	582.8	444.7	428.0	420.4	415.9	414.4	414.4
22.5°	2839.9	2515.0	1698.5	843.9	467.5	422.0	408.3	403.7	399.2	397.7	396.2
25°	2891.5	2516.6	1552.7	660.3	425.0	402.2	391.6	387.0	382.5	379.5	379.5
27.5°	2965.8	2528.7	1391.8	514.5	400.7	384.0	374.9	370.4	365.8	361.2	361.2
30°	3073.6	2559.1	1211.2	425.0	377.9	364.3	355.2	352.1	347.6	343.0	341.5
32.5°	3234.5	2612.2	1024.5	381.0	356.7	343.0	332.4	329.4	324.8	320.3	318.7
35°	3459.1	2709.3	842.4	353.7	329.4	315.7	309.6	308.1	302.0	297.5	297.5
37.5°	3788.5	2867.2	667.8	326.3	306.6	296.0	288.4	285.4	279.3	274.7	273.2
40°	4190.7	3072.1	519.1	305.1	285.4	274.7	267.1	262.6	255.0	248.9	245.9
42.5°	4703.8	3322.5	409.8	282.3	265.6	255.0	248.9	239.8	229.2	220.1	218.6
45°	5238.0	3580.6	338.5	261.1	247.4	238.3	230.7	218.6	203.4	192.8	189.7
47.5°	5647.8	3741.5	296.0	238.3	227.7	220.1	211.0	195.8	177.6	165.4	162.4
50°	5940.8	3765.7	264.1	217.0	211.0	203.4	189.7	171.5	151.8	139.6	136.6
52.5°	6085.0	3656.5	238.3	197.3	192.8	185.2	168.5	148.7	127.5	115.4	112.3
55°	6150.2	3450.0	214.0	180.6	174.6	165.4	147.2	126.0	104.7	94.1	91.1
57.5°	6124.4	3144.9	192.8	163.9	156.3	145.7	126.0	103.2	86.5	75.9	74.4
60°	5933.2	2716.9	171.5	147.2	138.1	126.0	106.2	85.0	69.8	62.2	60.7
62.5°	5520.3	2185.7	150.3	127.5	121.4	109.3	91.1	69.8	57.7	53.1	51.6
65°	4674.9	1545.2	129.0	107.8	104.7	92.6	75.9	57.7	50.1	47.1	45.5
67.5°	3360.5	939.5	109.3	92.6	89.6	78.9	63.7	50.1	45.5	44.0	44.0
70°	1689.3	444.7	86.5	75.9	75.9	65.3	54.6	45.5	44.0	42.5	42.5
72.5°	573.7	189.7	65.3	59.2	62.2	56.2	47.1	42.5	42.5	42.5	42.5
75°	195.8	100.2	45.5	42.5	45.5	45.5	41.0	41.0	42.5	42.5	42.5
77.5°	127.5	66.8	31.9	28.8	34.9	34.9	34.9	37.9	41.0	41.0	41.0
80°	104.7	36.4	21.2	19.7	25.8	25.8	28.8	34.9	37.9	37.9	37.9
82.5°	89.6	22.8	12.1	13.7	18.2	19.7	24.3	28.8	33.4	34.9	34.9
85°	60.7	12.1	9.1	10.6	12.1	15.2	19.7	24.3	27.3	30.4	30.4
87.5°	16.7	4.6	6.1	7.6	7.6	10.6	15.2	18.2	21.2	22.8	22.8
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)