

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: P639241

Luminaire Tested: GWS-SA5B-740-U-SL2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639241
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-30)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5B-740-U-SL2-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14075.3 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

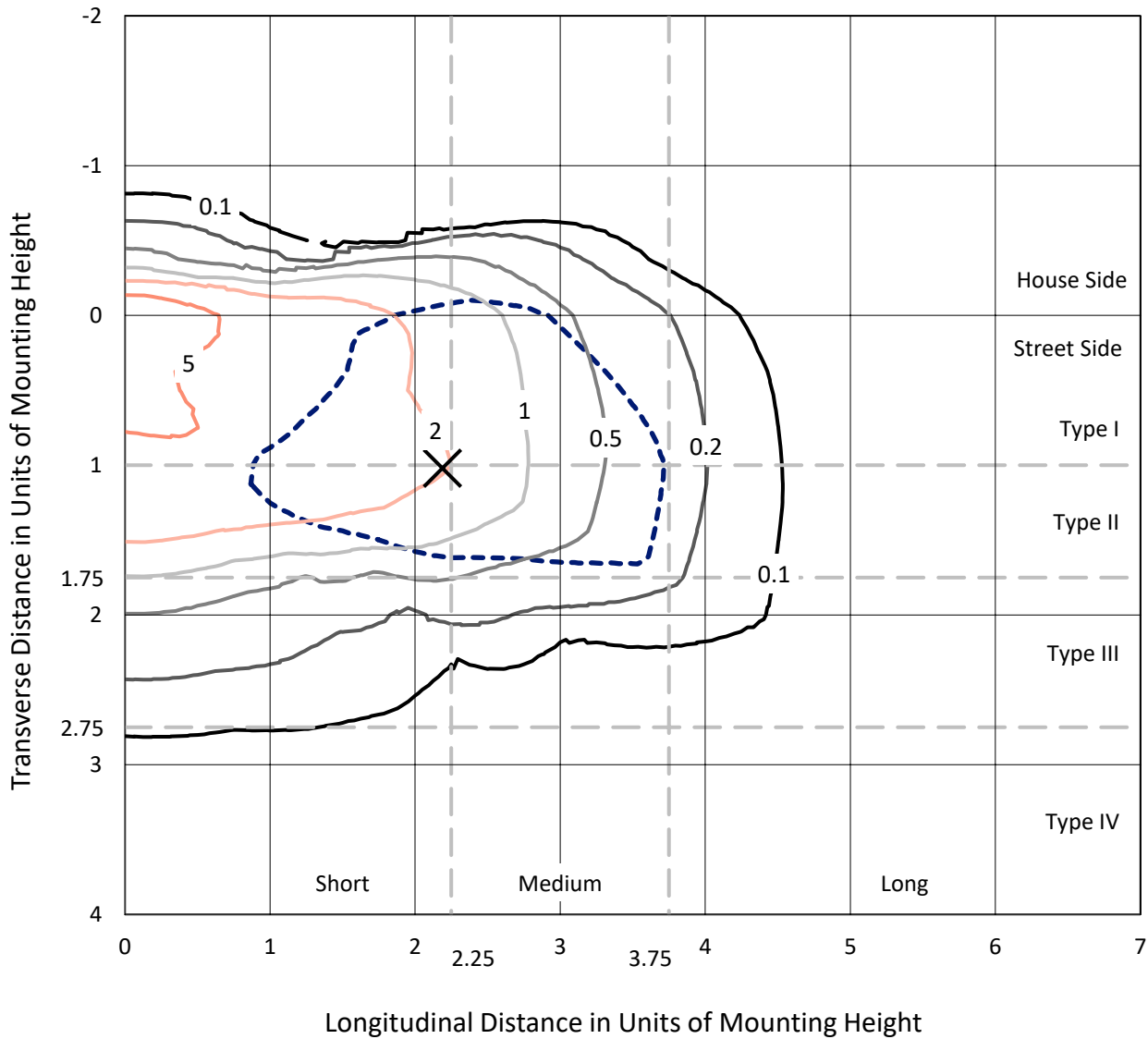
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

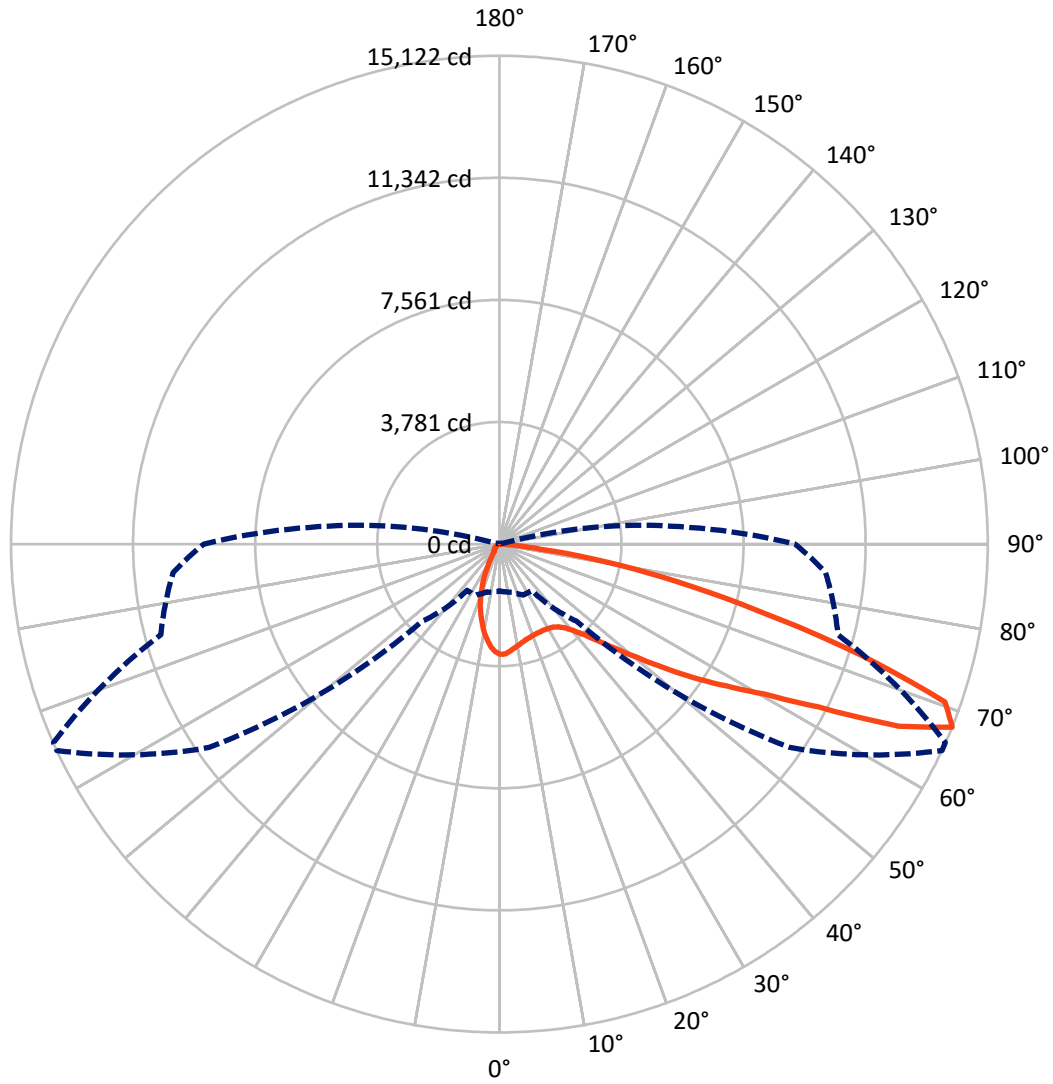
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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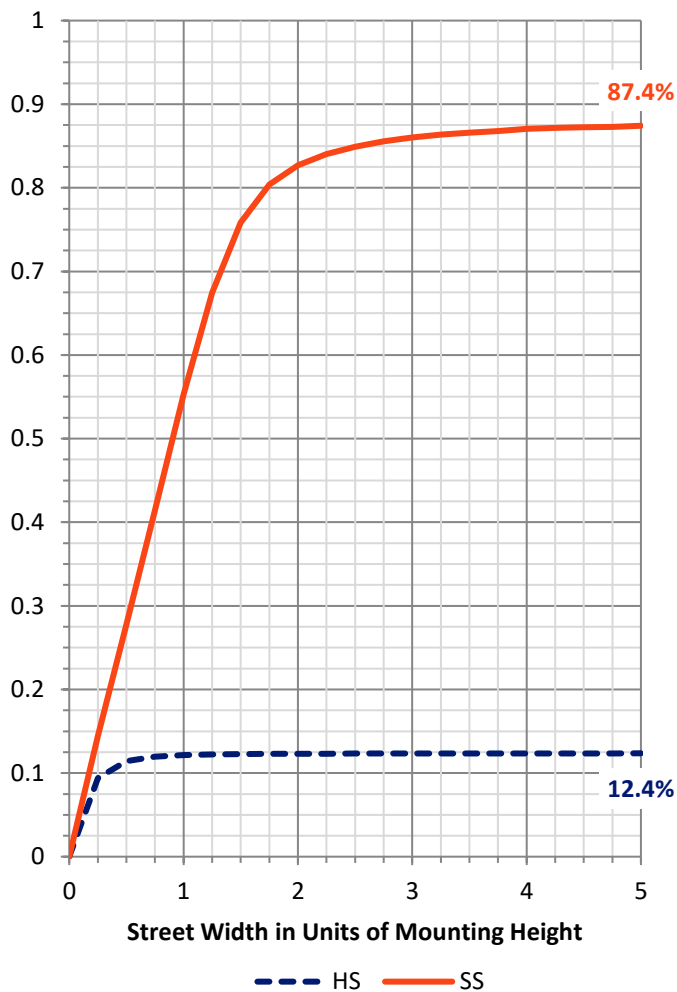
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1757.6	0.0	1757.6
	% Fixture	12.5	0.0	12.5
Street Side	Lumens	12317.7	0.0	12317.7
	% Fixture	87.5	0.0	87.5
Total	Lumens	14075.3	0.0	14075.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.5	2.0
10°-20°	637.3	4.5
20°-30°	910.7	6.5
30°-40°	1325.0	9.4
40°-50°	2075.2	14.7
50°-60°	3237.4	23.0
60°-70°	3556.1	25.3
70°-80°	1892.5	13.4
80°-90°	157.6	1.1
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°	14075.3	100.0
0°-180°	14075.3	100.0

Coefficient of Utilization



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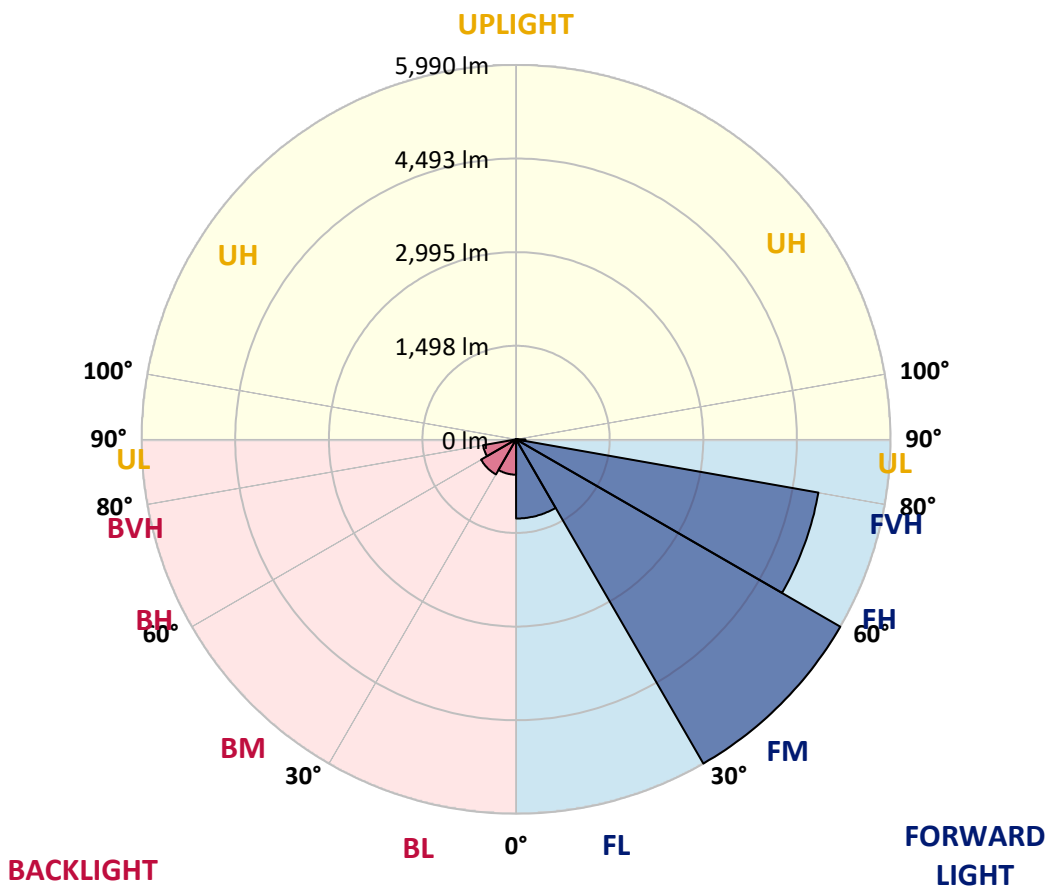
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1266.7	9.0			
FM (30°-60°)	5990.1	42.6			
FH (60°-80°)	4911.7	34.9			G2/5000
FVH (80°-90°)	149.1	1.1			G2/225
BL (0°-30°)	564.9	4.0	B2/1000		
BM (30°-60°)	647.4	4.6	B1/1000		
BH (60°-80°)	536.8	3.8	B2/1000		G2/1000
BVH (80°-90°)	8.4	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3413.7	3413.7	3413.7	3413.7	3413.7	3413.7	3413.7	3413.7	3413.7	3413.7	3413.7
2.5°	3295.3	3305.5	3291.5	3325.9	3332.2	3370.4	3392.1	3407.3	3406.1	3425.2	3425.2
5°	3101.9	3112.0	3104.4	3141.3	3170.6	3230.4	3280.1	3337.3	3339.9	3398.4	3420.1
7.5°	2937.7	2938.9	2938.9	2984.8	3022.9	3096.8	3170.6	3258.4	3268.6	3359.0	3416.2
10°	2802.7	2806.6	2807.8	2860.0	2902.0	2991.1	3085.3	3191.0	3202.4	3324.6	3413.7
12.5°	2709.8	2711.1	2716.2	2770.9	2816.8	2909.7	3005.1	3126.0	3141.3	3285.1	3402.2
15°	2665.3	2662.7	2665.3	2711.1	2756.9	2846.0	2944.0	3073.9	3090.4	3252.1	3403.5
17.5°	2662.7	2658.9	2656.4	2690.7	2720.0	2798.9	2898.2	3039.5	3057.3	3236.8	3417.5
20°	2699.7	2697.1	2684.4	2699.7	2706.0	2770.9	2868.9	3012.8	3030.6	3234.2	3448.1
22.5°	2796.4	2790.0	2770.9	2756.9	2722.6	2760.7	2848.6	2993.7	3014.0	3240.6	3487.5
25°	2940.2	2937.7	2913.5	2879.1	2791.3	2776.0	2849.8	2993.7	3012.8	3248.2	3529.5
27.5°	3156.6	3141.3	3110.8	3050.9	2924.9	2835.8	2875.3	3001.3	3020.4	3258.4	3563.9
30°	3376.8	3375.5	3365.3	3304.2	3117.1	2950.4	2928.8	3021.7	3039.5	3267.3	3595.7
32.5°	3604.6	3608.4	3633.9	3586.8	3381.9	3121.0	3025.5	3063.7	3076.4	3285.1	3623.7
35°	3821.0	3828.6	3896.1	3912.6	3703.9	3379.3	3183.3	3147.7	3149.0	3324.6	3660.6
37.5°	4028.5	4053.9	4162.1	4242.3	4104.8	3692.5	3411.2	3290.2	3280.1	3403.5	3716.6
40°	4263.9	4312.3	4448.5	4584.7	4541.4	4106.1	3721.7	3509.2	3487.5	3548.6	3817.2
42.5°	4524.9	4577.1	4757.8	4948.7	4969.1	4606.3	4109.9	3828.6	3791.7	3793.0	4005.6
45°	4804.9	4874.9	5084.9	5359.8	5483.3	5163.8	4588.5	4260.1	4223.2	4168.5	4308.5
47.5°	5172.7	5233.8	5436.2	5753.1	5989.9	5762.1	5216.0	4815.1	4747.6	4667.4	4779.4
50°	5489.7	5543.1	5717.5	6114.6	6607.2	6533.4	5927.5	5508.8	5443.9	5307.7	5400.6
52.5°	5559.7	5601.7	5762.1	6208.8	7079.4	7507.1	6799.4	6347.6	6301.7	6049.7	6085.4
55°	5245.3	5308.9	5452.8	5949.2	7202.9	8459.2	7930.9	7293.3	7197.8	6795.6	6859.2
57.5°	4451.1	4564.3	4699.3	5344.6	6868.1	8965.7	9511.8	8295.0	8208.4	7513.5	7514.7
60°	3262.2	3353.9	3444.3	4034.8	6073.9	8931.4	10946.3	9420.1	9262.3	8100.2	8078.6
62.5°	2372.5	2419.6	2418.4	2628.4	4171.0	8343.3	11699.8	11115.5	10747.7	8727.7	8604.3
65°	1866.0	1864.7	1919.4	1988.1	2329.3	6440.5	11792.7	13591.2	13194.1	9569.1	9312.0
67.5°	1452.3	1480.3	1535.0	1737.4	1750.1	3370.4	10975.5	15122.4	15114.7	10853.3	10140.6
70°	1120.1	1158.3	1235.9	1531.2	1616.5	1886.3	8212.2	14637.4	14760.9	11427.4	9553.8
72.5°	719.1	716.6	831.2	1237.2	1552.8	1571.9	4541.4	11627.2	11767.2	10350.6	7724.7
75°	402.2	404.8	469.7	757.3	1447.2	1479.0	2249.1	8291.2	8401.9	8069.7	5935.2
77.5°	157.8	162.9	220.2	398.4	954.6	1321.2	1336.5	5653.9	5670.4	5000.9	3640.3
80°	63.6	67.5	112.0	246.9	581.7	889.7	954.6	3331.0	3263.5	1936.0	1059.0
82.5°	19.1	20.4	44.5	140.0	304.2	632.6	644.0	1277.9	1206.6	416.2	269.8
85°	1.3	1.3	10.2	43.3	108.2	159.1	428.9	416.2	369.1	104.4	119.6
87.5°	0.0	0.0	1.3	1.3	2.5	5.1	45.8	76.4	77.6	19.1	53.5
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°	3413.7	3413.7	3413.7	3413.7	3413.7	3413.7	3413.7	3413.7	3413.7	3413.7	3413.7
2.5°	3425.2	3379.3	3375.5	3339.9	3304.2	3259.7	3207.5	3169.3	3142.6	3095.5	3086.6
5°	3420.1	3359.0	3301.7	3199.9	3086.6	2964.4	2857.5	2758.2	2695.8	2653.8	2636.0
7.5°	3409.9	3332.2	3199.9	3007.7	2818.0	2604.2	2437.5	2284.7	2180.3	2119.2	2092.5
10°	3402.2	3297.9	3082.8	2791.3	2497.3	2202.0	1948.7	1722.1	1596.1	1496.8	1480.3
12.5°	3387.0	3248.2	2932.6	2538.0	2158.7	1766.7	1443.4	1165.9	973.7	887.2	856.6
15°	3371.7	3196.1	2782.4	2270.7	1789.6	1305.9	913.9	646.6	514.2	473.5	470.9
17.5°	3369.2	3149.0	2619.5	2017.4	1402.6	855.3	520.6	418.8	390.8	380.6	380.6
20°	3376.8	3109.5	2459.1	1725.9	1022.1	520.6	388.2	362.8	346.2	337.3	337.3
22.5°	3384.4	3068.8	2305.1	1431.9	678.4	380.6	342.4	320.8	301.7	291.5	286.4
25°	3389.5	3024.2	2134.5	1136.6	442.9	330.9	300.4	272.4	249.5	236.7	236.7
27.5°	3388.2	2970.8	1962.7	847.7	343.7	294.0	257.1	227.8	204.9	190.9	192.2
30°	3378.1	2912.2	1784.5	591.9	300.4	257.1	220.2	189.7	166.7	155.3	154.0
32.5°	3370.4	2849.8	1578.3	416.2	269.8	225.3	187.1	157.8	138.7	129.8	128.6
35°	3361.5	2788.7	1382.3	316.9	243.1	194.7	157.8	133.6	118.4	110.7	110.7
37.5°	3364.1	2725.1	1169.7	272.4	216.4	169.3	134.9	114.6	101.8	94.2	92.9
40°	3403.5	2686.9	961.0	246.9	192.2	146.4	117.1	99.3	86.6	78.9	77.6
42.5°	3501.5	2688.2	761.1	227.8	170.6	124.7	101.8	85.3	73.8	64.9	63.6
45°	3697.5	2741.7	584.2	207.5	147.6	108.2	87.8	72.6	61.1	53.5	52.2
47.5°	4018.3	2900.8	442.9	189.7	128.6	94.2	75.1	61.1	50.9	44.5	43.3
50°	4528.7	3188.4	348.8	168.0	108.2	81.5	63.6	50.9	42.0	35.6	34.4
52.5°	5142.2	3619.9	299.1	148.9	92.9	71.3	54.7	42.0	34.4	29.3	28.0
55°	5847.3	4135.4	276.2	129.8	78.9	61.1	44.5	34.4	28.0	24.2	21.6
57.5°	6493.9	4600.0	274.9	110.7	67.5	52.2	36.9	29.3	24.2	19.1	17.8
60°	7124.0	4988.2	258.4	91.6	58.5	43.3	31.8	24.2	20.4	16.5	15.3
62.5°	7695.5	5303.8	216.4	73.8	49.6	35.6	26.7	21.6	17.8	14.0	14.0
65°	8413.3	5706.1	165.5	59.8	40.7	29.3	22.9	19.1	16.5	12.7	12.7
67.5°	9155.4	5918.6	118.4	49.6	33.1	25.5	20.4	17.8	14.0	11.5	11.5
70°	8292.4	5000.9	85.3	40.7	28.0	21.6	17.8	16.5	14.0	11.5	10.2
72.5°	6476.1	3605.9	63.6	31.8	24.2	20.4	16.5	15.3	12.7	10.2	10.2
75°	4802.4	2102.7	48.4	25.5	19.1	16.5	16.5	15.3	12.7	10.2	8.9
77.5°	2610.6	733.1	36.9	20.4	15.3	12.7	14.0	14.0	11.5	8.9	7.6
80°	691.1	201.1	25.5	15.3	12.7	10.2	10.2	12.7	10.2	7.6	7.6
82.5°	201.1	58.5	17.8	12.7	10.2	8.9	8.9	8.9	7.6	6.4	5.1
85°	98.0	21.6	12.7	10.2	8.9	7.6	6.4	6.4	5.1	3.8	3.8
87.5°	43.3	8.9	10.2	8.9	8.9	6.4	5.1	3.8	3.8	2.5	1.3
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)