

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: P639987

Luminaire Tested: GWS-SA5C-830-U-T3R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639987
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5C-830-U-T3R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14808.2 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

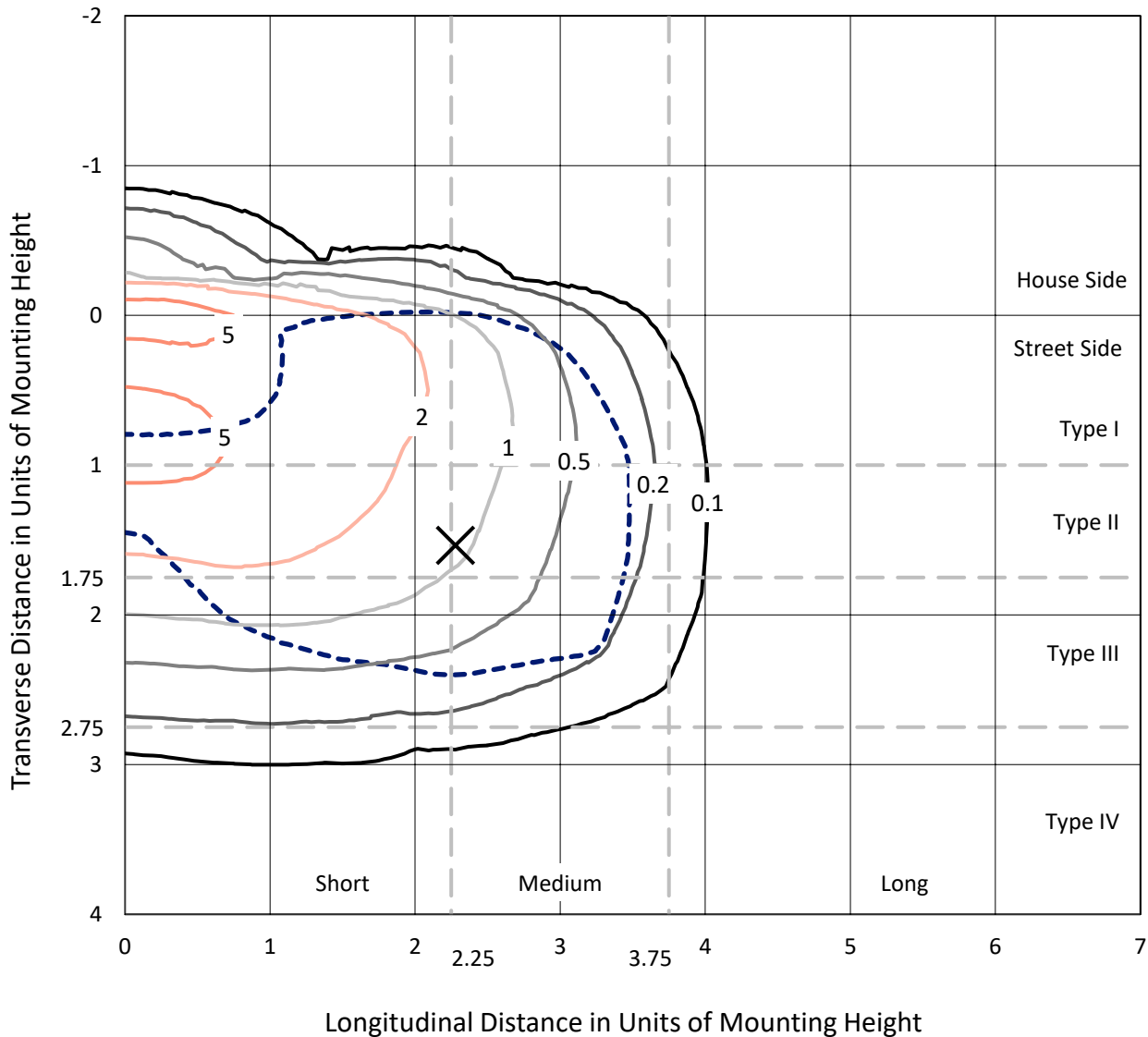
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

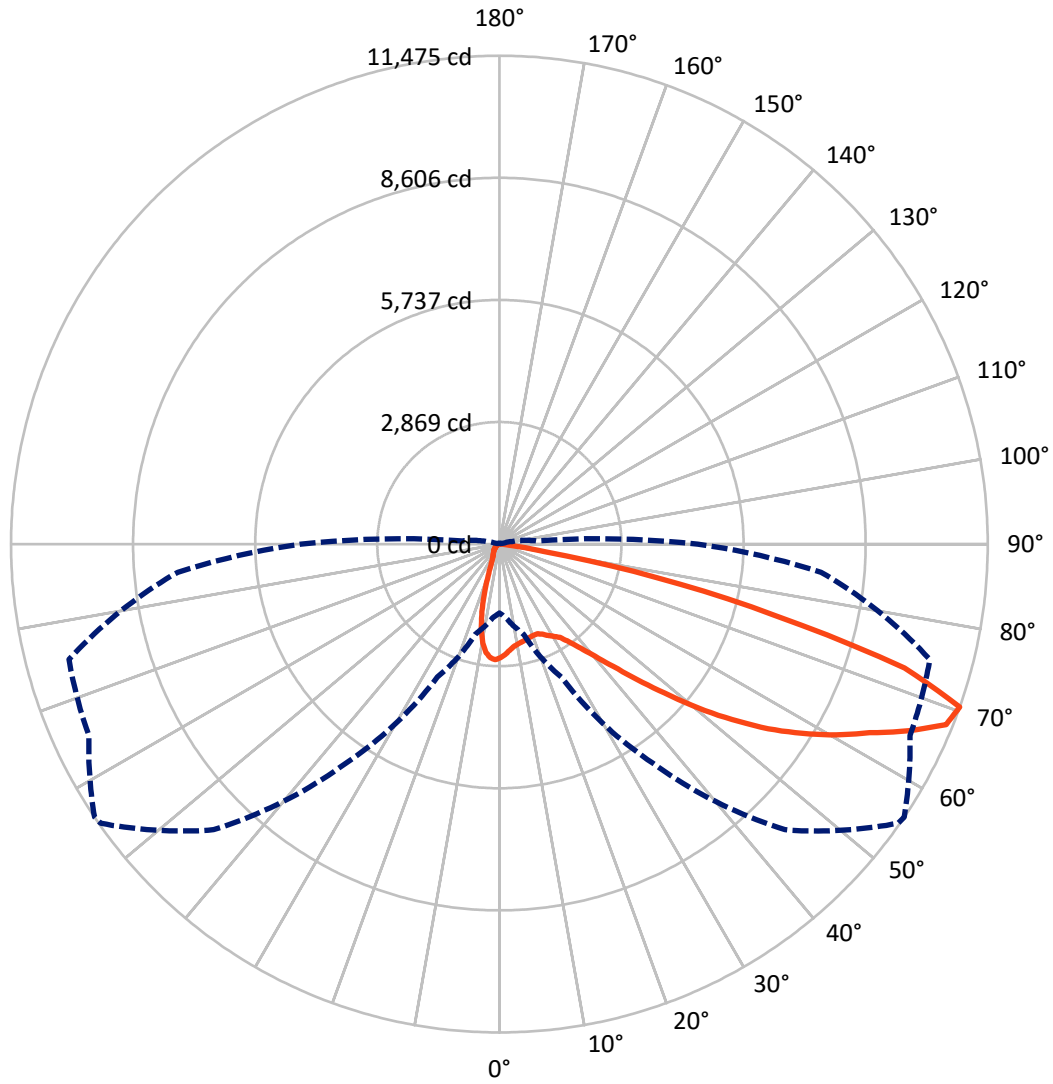
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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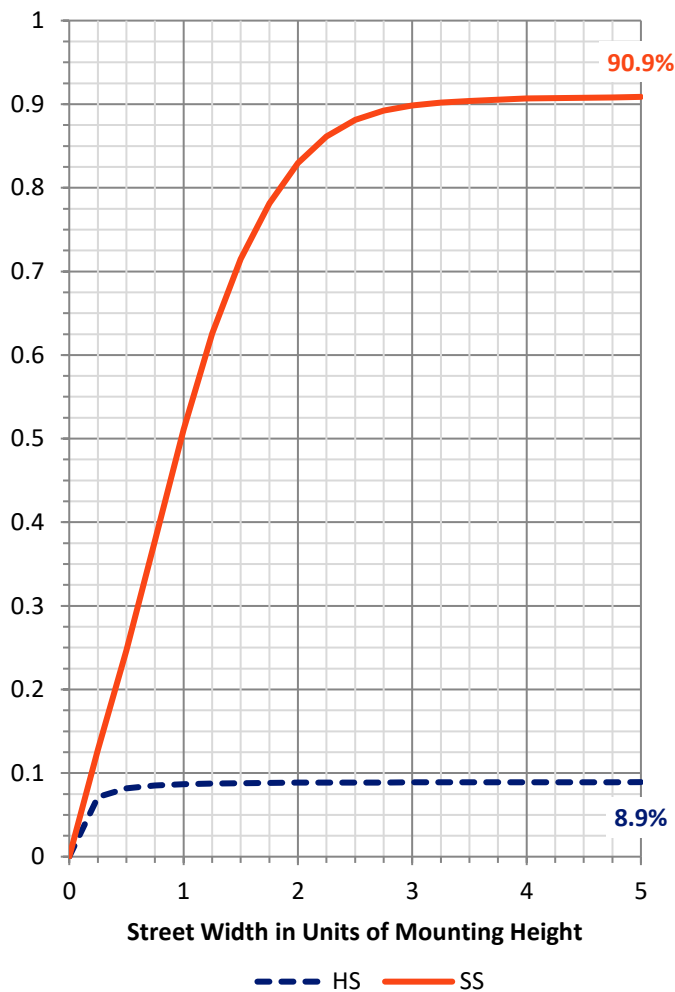
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1330.1	0.0	1330.1
	% Fixture	9.0	0.0	9.0
Street Side	Lumens	13478.1	0.0	13478.1
	% Fixture	91.0	0.0	91.0
Total	Lumens	14808.2	0.0	14808.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.2	1.5
10°-20°	515.6	3.5
20°-30°	816.7	5.5
30°-40°	1408.4	9.5
40°-50°	2378.4	16.1
50°-60°	3494.6	23.6
60°-70°	4143.0	28.0
70°-80°	1766.7	11.9
80°-90°	55.5	0.4
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°	14808.2	100.0
0°-180°	14808.2	100.0

Coefficient of Utilization



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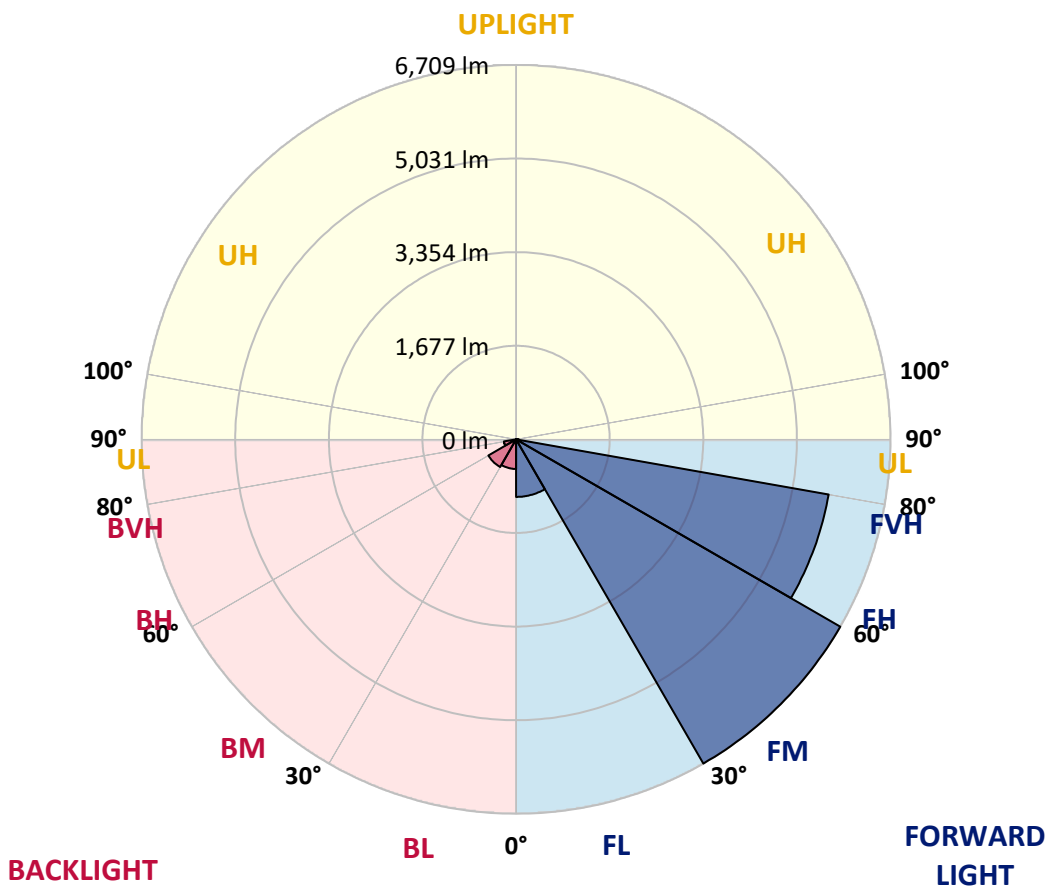
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1031.9	7.0			
FM (30°-60°)	6708.5	45.3			
FH (60°-80°)	5687.9	38.4			G3/7500
FVH (80°-90°)	49.8	0.3			G1/100
BL (0°-30°)	529.7	3.6	B2/1000		
BM (30°-60°)	572.9	3.9	B1/1000		
BH (60°-80°)	221.8	1.5	B1/500		G1/500
BVH (80°-90°)	5.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2670.1	2670.1	2670.1	2670.1	2670.1	2670.1	2670.1	2670.1	2670.1	2670.1	2670.1
2.5°	2485.6	2481.6	2484.3	2504.6	2542.6	2560.2	2590.1	2595.5	2619.9	2651.1	2663.3
5°	2324.3	2310.7	2317.5	2346.0	2389.4	2438.2	2493.8	2508.7	2569.7	2638.9	2690.4
7.5°	2176.5	2161.5	2177.8	2222.6	2283.6	2336.5	2419.2	2428.7	2526.3	2648.4	2741.9
10°	1944.6	1948.6	1981.2	2059.8	2153.4	2263.3	2374.4	2388.0	2508.7	2679.6	2824.7
12.5°	1766.9	1757.4	1792.7	1882.2	2013.7	2173.8	2340.5	2358.2	2510.1	2727.0	2930.4
15°	1684.2	1681.5	1696.4	1761.5	1889.0	2077.5	2309.4	2332.4	2527.7	2770.4	3030.8
17.5°	1686.9	1682.9	1681.5	1719.5	1814.4	2005.6	2275.5	2305.3	2542.6	2817.9	3136.5
20°	1804.9	1785.9	1752.0	1734.4	1791.3	1959.5	2252.4	2286.3	2564.3	2868.1	3249.1
22.5°	2051.7	2058.5	1967.6	1872.7	1845.6	1964.9	2249.7	2289.0	2611.8	2946.7	3387.4
25°	2545.3	2534.5	2366.3	2153.4	2005.6	2027.3	2297.2	2344.6	2705.3	3059.3	3517.6
27.5°	3163.7	3173.2	2942.6	2603.6	2294.4	2156.1	2383.9	2431.4	2813.8	3129.8	3604.4
30°	3837.6	3828.1	3581.3	3205.7	2704.0	2370.4	2470.7	2512.8	2868.1	3167.7	3693.9
32.5°	4475.0	4453.3	4209.2	3815.9	3226.0	2708.0	2590.1	2614.5	2939.9	3250.5	3814.6
35°	5018.8	5017.4	4804.5	4385.5	3763.0	3131.1	2794.8	2815.2	3074.2	3382.0	3992.2
37.5°	5580.2	5561.2	5322.5	4940.1	4315.0	3594.9	3108.1	3099.9	3285.7	3575.9	4210.5
40°	6041.2	6029.0	5845.9	5478.5	4888.6	4107.5	3487.8	3463.4	3536.6	3844.4	4514.3
42.5°	6382.9	6384.3	6327.3	6103.6	5496.1	4700.1	3965.1	3927.1	3925.8	4249.9	4915.7
45°	6641.9	6659.6	6745.0	6711.1	6213.4	5390.3	4576.7	4537.4	4470.9	4776.0	5375.4
47.5°	6762.6	6785.7	7043.3	7178.9	6841.3	6075.1	5304.9	5222.2	5092.0	5475.7	5889.3
50°	6750.4	6791.1	7150.5	7562.7	7410.8	6769.4	6098.2	6058.8	5845.9	6216.1	6397.9
52.5°	6473.8	6560.6	7157.2	7795.9	7848.8	7409.5	6918.6	6845.4	6742.3	6989.1	6875.2
55°	5722.5	5828.3	6871.1	7870.5	8190.6	7968.2	7721.4	7661.7	7490.8	7718.7	7291.5
57.5°	5314.4	5405.2	6269.0	7833.9	8480.8	8484.8	8436.0	8387.2	8246.2	8440.1	7779.7
60°	5068.9	5159.8	5947.6	7699.7	8743.8	9030.0	9107.2	9101.8	8898.4	9260.5	8351.9
62.5°	4709.6	4834.3	5612.7	7351.2	8931.0	9567.0	9800.2	9763.6	9537.1	10114.8	8918.8
65°	3984.1	4092.6	4926.5	6776.2	8821.1	10011.7	10551.4	10570.4	10308.7	10918.9	9366.3
67.5°	2793.5	2873.5	3702.0	5569.3	8075.3	10158.2	11320.3	11319.0	10872.8	11331.2	9168.3
70°	1619.1	1729.0	2187.3	3443.0	6282.6	9492.4	11435.6	11474.9	10643.7	10470.1	7587.1
72.5°	626.5	717.4	1239.4	1829.3	3276.2	7271.2	9836.8	9952.1	8907.9	8076.6	5280.5
75°	187.1	208.8	583.1	973.6	1315.4	3512.2	6659.6	6692.1	6110.4	5037.7	2706.7
77.5°	139.7	154.6	254.9	492.2	461.1	1064.5	3445.7	3763.0	3243.7	1799.5	745.8
80°	94.9	112.6	181.7	240.0	170.9	283.4	968.2	1063.1	989.9	404.1	187.1
82.5°	42.0	54.2	128.8	120.7	62.4	81.4	298.3	317.3	204.8	122.0	65.1
85°	4.1	5.4	48.8	52.9	23.1	19.0	62.4	62.4	44.7	42.0	27.1
87.5°	0.0	0.0	1.4	2.7	2.7	4.1	5.4	6.8	8.1	10.8	13.6
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°	2670.1	2670.1	2670.1	2670.1	2670.1	2670.1	2670.1	2670.1	2670.1	2670.1	2670.1
2.5°	2694.5	2678.2	2698.5	2714.8	2718.9	2689.1	2671.4	2645.7	2640.2	2641.6	2634.8
5°	2731.1	2723.0	2737.9	2720.2	2674.1	2587.3	2512.8	2430.0	2385.3	2359.5	2356.8
7.5°	2798.9	2794.8	2778.6	2698.5	2554.8	2362.2	2176.5	1994.8	1882.2	1841.5	1834.7
10°	2899.2	2891.1	2824.7	2634.8	2328.3	1958.1	1646.2	1385.9	1227.2	1181.1	1124.2
12.5°	3014.5	2998.2	2853.1	2497.8	1986.6	1474.0	1084.8	793.3	656.3	615.6	615.6
15°	3125.7	3090.4	2836.9	2271.4	1566.2	958.7	606.2	458.3	416.3	405.5	405.5
17.5°	3239.6	3171.8	2773.1	1962.2	1082.1	566.8	404.1	375.6	370.2	371.6	372.9
20°	3346.7	3241.0	2660.6	1590.6	690.2	396.0	362.1	355.3	352.6	355.3	353.9
22.5°	3463.4	3304.7	2489.7	1185.2	448.9	356.6	344.4	339.0	336.3	340.4	340.4
25°	3578.6	3350.8	2263.3	797.4	356.6	332.2	325.5	320.0	317.3	318.7	318.7
27.5°	3638.3	3333.2	1966.3	508.5	320.0	307.8	301.0	294.3	290.2	288.8	290.2
30°	3679.0	3278.9	1602.9	362.1	290.2	275.3	268.5	263.1	252.2	245.4	248.2
32.5°	3742.7	3224.7	1208.2	303.8	265.8	242.7	231.9	218.3	203.4	196.6	196.6
35°	3818.6	3150.1	847.5	273.9	240.0	215.6	195.3	172.2	154.6	149.2	149.2
37.5°	3919.0	3079.6	564.1	253.6	218.3	192.6	164.1	137.0	118.0	115.3	113.9
40°	4069.5	3019.9	397.3	238.7	199.3	168.2	134.2	105.8	92.2	88.1	88.1
42.5°	4264.8	2958.9	314.6	223.7	183.1	145.1	107.1	84.1	73.2	70.5	69.2
45°	4506.2	2887.0	273.9	210.2	166.8	120.7	85.4	70.5	62.4	59.7	59.7
47.5°	4767.9	2789.4	254.9	192.6	147.8	97.6	71.9	61.0	57.0	55.6	54.2
50°	5025.5	2657.9	238.7	176.3	126.1	80.0	62.4	55.6	52.9	51.5	51.5
52.5°	5250.6	2504.6	218.3	157.3	103.1	69.2	55.6	51.5	48.8	46.1	44.7
55°	5443.2	2337.8	192.6	135.6	84.1	61.0	51.5	47.5	44.7	42.0	40.7
57.5°	5691.4	2242.9	154.6	109.8	69.2	54.2	47.5	43.4	40.7	36.6	36.6
60°	5966.6	2173.8	115.3	86.8	59.7	50.2	43.4	39.3	36.6	32.5	32.5
62.5°	6187.7	2070.7	90.9	70.5	51.5	44.7	39.3	35.3	32.5	28.5	28.5
65°	6271.7	1857.8	74.6	55.6	42.0	39.3	35.3	32.5	28.5	24.4	24.4
67.5°	5892.0	1432.0	62.4	44.7	35.3	33.9	31.2	29.8	24.4	21.7	20.3
70°	4666.2	873.3	51.5	36.6	29.8	28.5	28.5	25.8	21.7	20.3	19.0
72.5°	3197.6	450.2	42.0	29.8	25.8	25.8	24.4	23.1	20.3	19.0	19.0
75°	1661.2	150.5	32.5	23.1	20.3	21.7	21.7	20.3	19.0	19.0	17.6
77.5°	476.0	67.8	24.4	17.6	16.3	16.3	17.6	17.6	17.6	16.3	16.3
80°	123.4	39.3	17.6	13.6	13.6	13.6	13.6	14.9	16.3	14.9	14.9
82.5°	50.2	21.7	12.2	10.8	10.8	10.8	10.8	12.2	13.6	13.6	13.6
85°	31.2	10.8	9.5	9.5	9.5	8.1	8.1	9.5	9.5	10.8	10.8
87.5°	19.0	8.1	8.1	8.1	8.1	6.8	6.8	6.8	6.8	6.8	6.8
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)