

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: STREETWORKS

Report Number: P386610

Luminaire Tested: GAW-SA2B-740-U-SL3-HSS

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386610
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GAW-SA2B-740-U-SL3-HSS
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10190 lumens
Efficiency: N/A
Efficacy: 118.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

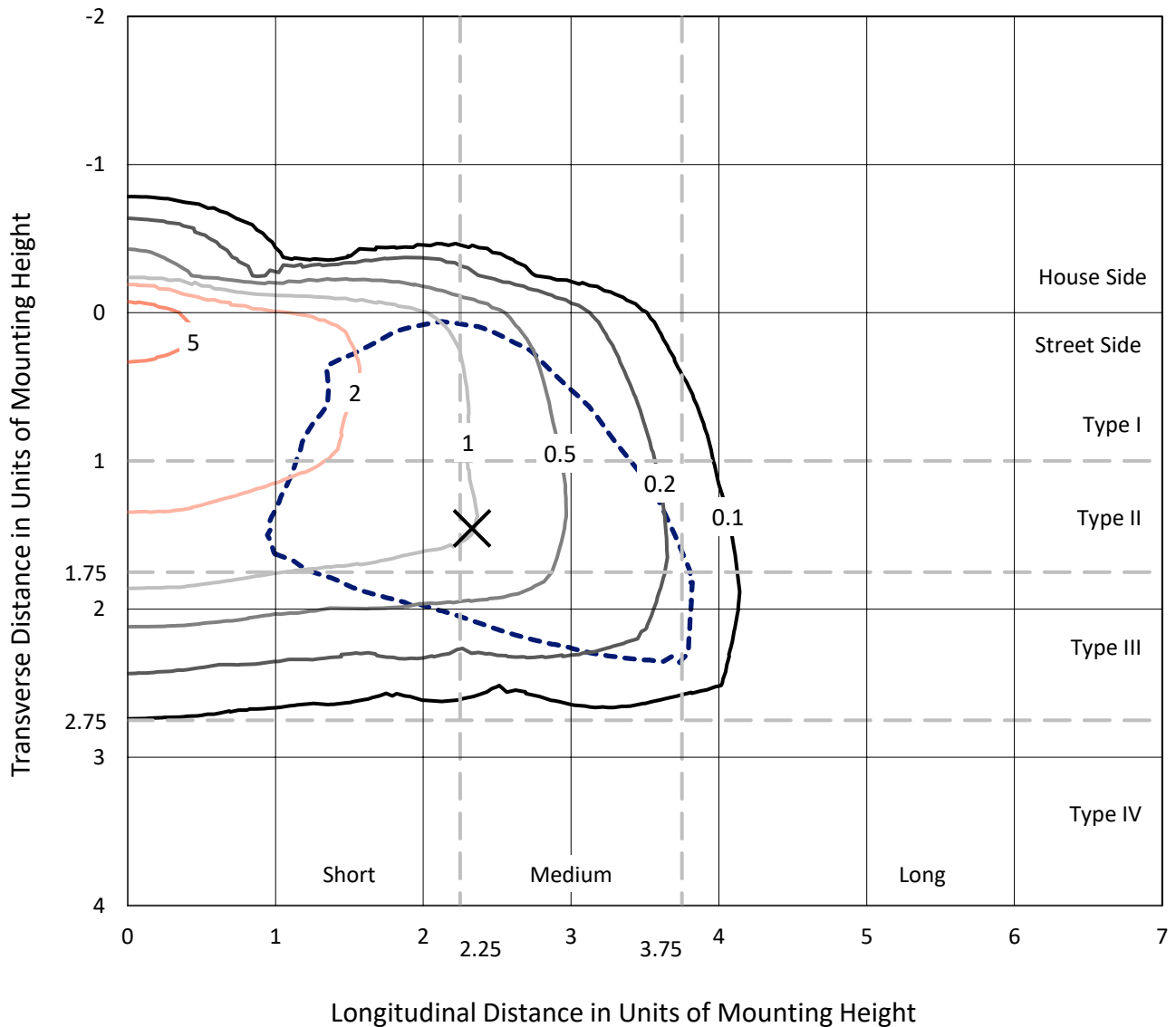
Input Watts (W): 86
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

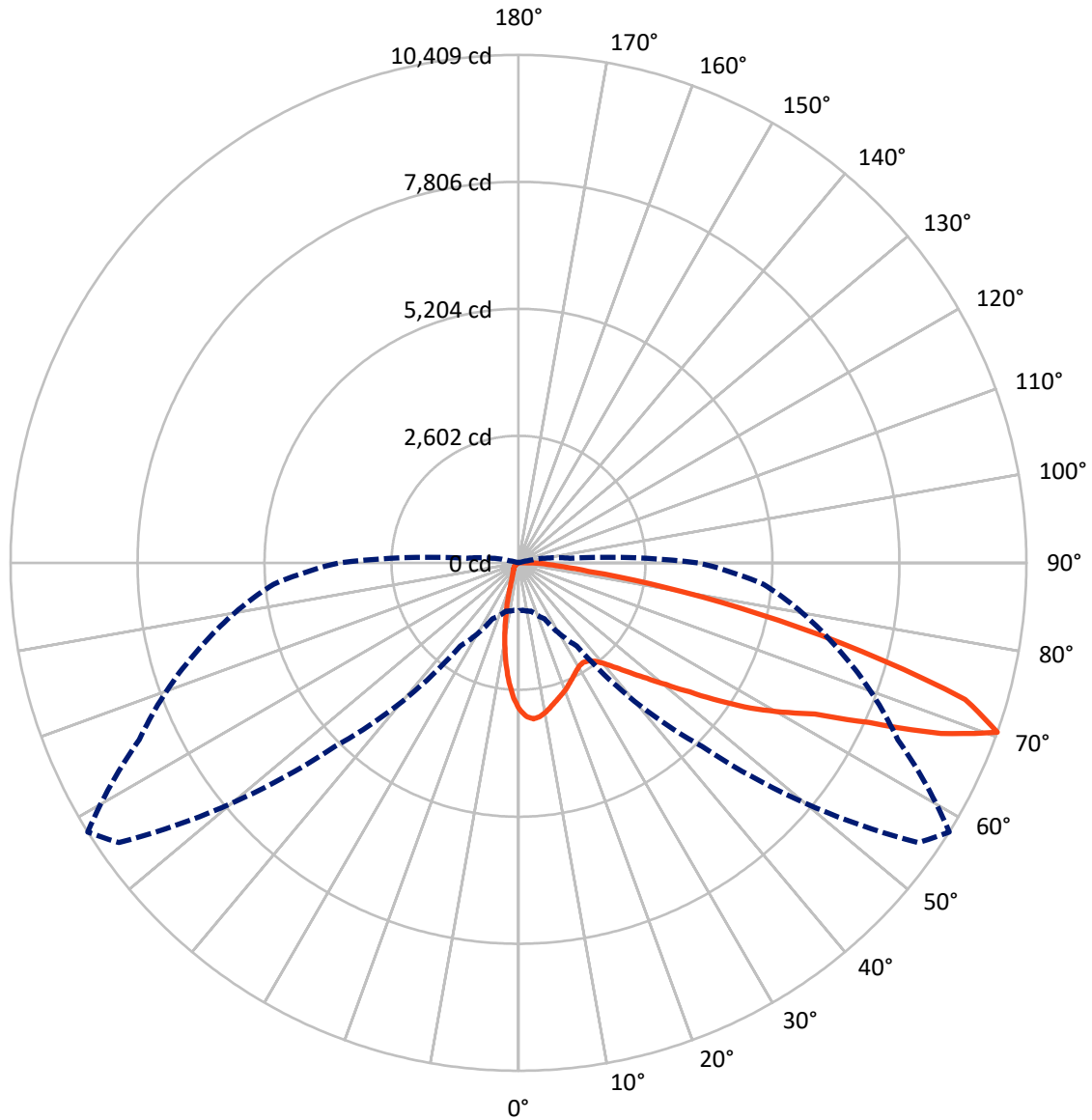
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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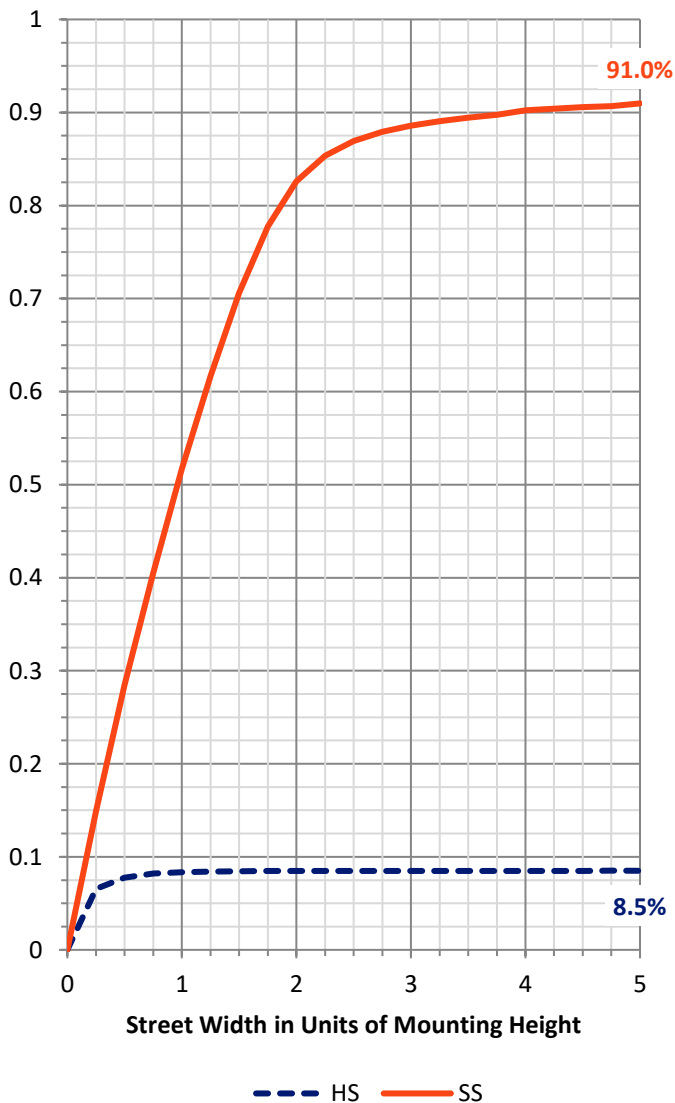
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	872.0	0.0	872.0
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	9318.0	0.0	9318.0
	% Fixture	91.4	0.0	91.4
Total	Lumens	10190.0	0.0	10190.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.1	2.4
10°-20°	516.6	5.1
20°-30°	679.2	6.7
30°-40°	899.5	8.8
40°-50°	1344.4	13.2
50°-60°	2153.7	21.1
60°-70°	2714.7	26.6
70°-80°	1464.3	14.4
80°-90°	171.4	1.7
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°	10190.0	100.0
0°-180°	10190.0	100.0

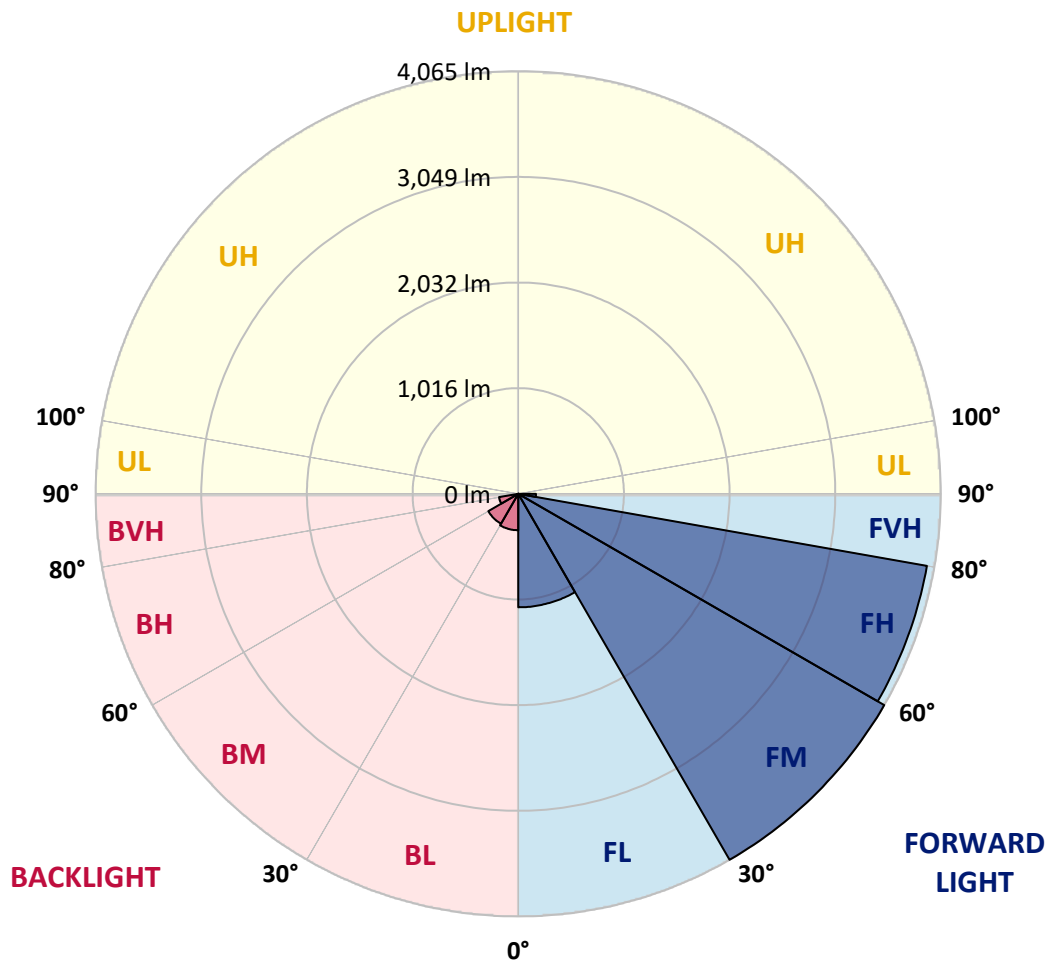


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1091.6	10.7			
FM (30°-60°)	4065.0	39.9			
FH (60°-80°)	3991.5	39.2			G2/5000
FVH (80°-90°)	169.9	1.7			G2/225
BL (0°-30°)	350.4	3.4	B1/500		
BM (30°-60°)	332.7	3.3	B1/1000		
BH (60°-80°)	187.5	1.8	B1/500		G1/500
BVH (80°-90°)	1.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3010.1	3010.1	3010.1	3010.1	3010.1	3010.1	3010.1	3010.1	3010.1	3010.1	3010.1
2.5°	3259.6	3251.6	3248.6	3243.5	3224.1	3205.0	3167.3	3156.7	3133.0	3076.6	3016.9
5°	3262.2	3261.8	3270.7	3268.5	3261.8	3252.9	3225.7	3211.8	3171.5	3091.0	2981.7
7.5°	3105.0	3113.0	3133.0	3149.1	3167.7	3191.9	3195.2	3181.7	3148.6	3061.8	2916.9
10°	2894.0	2906.7	2934.7	2966.4	3015.2	3063.5	3106.7	3105.0	3093.5	3008.0	2838.9
12.5°	2682.5	2697.4	2729.6	2776.6	2845.7	2924.5	3001.6	3012.2	3031.3	2959.7	2766.9
15°	2497.4	2510.1	2541.9	2599.5	2685.1	2791.0	2904.1	2923.6	2972.8	2921.9	2706.7
17.5°	2340.2	2348.2	2371.5	2435.5	2534.7	2663.1	2810.1	2848.2	2921.5	2892.3	2654.6
20°	2230.4	2231.7	2247.0	2291.9	2391.0	2534.7	2712.6	2767.3	2867.3	2866.9	2600.8
22.5°	2176.2	2172.0	2174.9	2200.8	2273.7	2412.2	2615.2	2680.0	2818.6	2845.3	2546.1
25°	2166.0	2162.6	2154.2	2157.6	2201.6	2305.0	2516.9	2591.9	2775.8	2832.1	2498.7
27.5°	2197.8	2201.2	2186.8	2171.5	2174.9	2235.5	2429.6	2516.4	2741.0	2832.1	2465.2
30°	2261.8	2263.5	2252.9	2233.0	2206.3	2216.0	2369.0	2455.9	2723.6	2851.6	2444.0
32.5°	2332.6	2341.9	2340.6	2324.5	2286.4	2247.0	2354.6	2433.8	2722.4	2894.8	2441.9
35°	2420.3	2430.9	2448.7	2445.3	2405.4	2340.6	2403.7	2466.0	2747.4	2966.0	2464.8
37.5°	2513.5	2529.6	2567.7	2585.9	2560.1	2486.8	2513.9	2558.4	2814.3	3081.3	2522.8
40°	2603.7	2622.0	2691.4	2763.1	2743.6	2668.1	2680.9	2716.4	2933.4	3246.9	2633.0
42.5°	2692.3	2719.4	2821.5	2939.3	2962.6	2902.5	2909.2	2937.6	3110.1	3474.9	2813.0
45°	2798.2	2828.7	2980.0	3125.3	3187.6	3161.3	3190.2	3208.8	3341.0	3776.2	3055.8
47.5°	2953.7	2988.9	3174.5	3340.2	3449.5	3466.4	3524.5	3536.8	3632.9	4127.0	3372.4
50°	3257.1	3266.8	3434.6	3585.1	3742.7	3844.4	3910.5	3919.8	3986.3	4510.5	3767.7
52.5°	3638.9	3645.2	3740.1	3841.0	4020.2	4227.8	4382.5	4395.6	4409.6	4884.2	4157.9
55°	4018.1	4017.3	4080.0	4139.3	4344.4	4646.0	4981.6	4989.7	4889.3	5238.8	4456.2
57.5°	4255.0	4277.8	4373.2	4449.4	4735.9	5122.7	5588.4	5618.0	5393.1	5501.5	4751.1
60°	4179.5	4190.6	4402.0	4684.2	5223.6	5800.2	6202.4	6210.0	5771.9	5763.8	5124.0
62.5°	3560.9	3566.8	3899.0	4480.8	5470.6	6679.0	6943.0	6818.9	6207.4	6127.8	5570.2
65°	2440.6	2479.2	2756.7	3475.7	5016.8	7230.3	8089.6	7884.1	6871.4	6652.3	5973.5
67.5°	1437.2	1429.2	1566.5	2096.1	3684.6	6864.2	9540.0	9335.7	7776.9	7003.6	5855.3
70°	981.7	976.2	1028.8	1269.0	2080.0	5324.8	9996.3	10408.6	8576.4	6767.2	5039.3
72.5°	700.8	703.8	781.3	986.0	1305.9	3102.4	8596.3	9572.2	8326.0	5899.4	3830.4
75°	475.8	483.9	594.9	808.9	1144.9	1578.3	6100.2	7276.5	6779.9	4287.6	2201.6
77.5°	255.9	264.8	395.8	651.7	1035.1	1096.6	3924.0	5007.9	4258.8	1927.5	638.1
80°	106.8	111.9	185.2	473.7	894.5	963.1	2308.8	3036.8	1814.8	380.1	142.4
82.5°	46.2	48.7	77.1	282.6	668.6	813.1	1222.4	1461.0	550.0	83.5	71.6
85°	8.9	9.3	31.8	149.6	426.7	458.9	792.3	776.7	247.0	36.0	52.1
87.5°	0.0	0.0	7.6	47.0	125.4	250.0	483.5	477.5	83.9	17.4	19.5
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°	3010.1	3010.1	3010.1	3010.1	3010.1	3010.1	3010.1	3010.1	3010.1	3010.1	3010.1
2.5°	2986.3	2957.1	2895.7	2819.8	2761.8	2697.8	2647.0	2582.5	2554.6	2555.9	2540.6
5°	2919.4	2859.2	2723.2	2551.6	2419.4	2283.0	2165.6	2048.7	1979.6	1957.1	1936.0
7.5°	2823.6	2728.3	2511.4	2247.0	2023.2	1804.6	1614.4	1447.0	1341.1	1289.4	1270.3
10°	2715.6	2581.7	2267.7	1919.4	1600.0	1304.2	1057.6	843.2	757.6	699.6	684.7
12.5°	2620.7	2439.3	2029.6	1583.4	1204.2	847.4	612.3	478.8	420.7	397.9	394.1
15°	2531.3	2306.3	1800.4	1279.2	833.9	521.6	389.4	344.1	330.5	326.7	326.7
17.5°	2447.0	2179.6	1576.2	979.6	551.7	365.7	322.4	312.3	308.0	307.6	308.0
20°	2358.8	2052.9	1355.9	717.8	385.2	309.7	297.9	292.4	291.1	291.1	291.1
22.5°	2274.5	1926.2	1141.5	512.7	308.9	282.6	276.7	272.9	271.6	271.2	270.3
25°	2193.6	1805.9	932.2	362.3	271.2	258.9	253.8	248.7	244.9	242.8	241.5
27.5°	2127.1	1698.7	737.3	290.7	244.9	234.3	228.0	220.3	211.0	206.8	205.1
30°	2074.1	1600.8	568.2	245.3	220.3	209.7	200.0	186.9	173.3	166.1	165.7
32.5°	2032.6	1504.6	431.3	216.9	198.3	185.2	171.2	154.7	139.0	130.9	130.5
35°	2012.2	1419.9	329.7	196.2	178.8	162.3	144.9	126.7	111.4	103.8	103.0
37.5°	2025.8	1348.3	257.2	178.8	162.3	143.2	122.9	103.8	90.3	83.5	83.0
40°	2075.4	1302.5	208.9	164.0	148.3	125.0	103.0	85.2	73.7	68.2	67.8
42.5°	2180.9	1285.6	178.4	151.7	134.7	108.0	85.6	70.3	59.7	55.9	55.1
45°	2357.1	1310.6	157.6	139.8	120.8	91.9	70.8	57.6	48.3	45.3	44.9
47.5°	2591.9	1376.2	142.8	128.4	108.0	77.5	58.9	46.6	39.4	36.4	36.0
50°	2894.4	1480.5	130.5	116.9	96.2	65.7	48.7	36.9	30.5	28.4	28.4
52.5°	3223.6	1604.6	119.5	106.4	84.3	54.7	39.4	28.4	24.2	21.6	21.6
55°	3495.7	1713.1	107.6	98.3	69.9	45.3	30.1	21.6	17.8	16.5	16.5
57.5°	3767.3	1828.8	94.1	84.3	55.9	36.9	22.9	16.1	13.1	12.3	12.3
60°	4119.4	1970.3	80.9	68.6	44.1	28.0	16.9	11.4	9.7	9.3	9.3
62.5°	4506.6	2053.3	69.1	55.1	34.3	20.8	12.3	7.6	7.2	7.2	6.8
65°	4743.5	1936.0	58.0	44.1	26.7	15.7	8.1	5.5	6.4	5.9	5.1
67.5°	4441.4	1515.6	47.5	34.3	20.8	11.9	5.1	3.8	6.8	5.5	4.2
70°	3677.4	1061.0	36.9	24.2	16.5	10.2	3.4	2.5	7.2	5.5	3.4
72.5°	2752.0	710.1	29.2	16.1	12.3	8.9	3.0	1.3	6.4	4.7	3.0
75°	1503.8	286.0	23.3	10.2	7.6	6.4	2.1	0.8	4.2	3.4	2.1
77.5°	395.8	75.4	16.9	6.8	4.2	2.5	1.3	0.4	2.1	1.7	0.8
80°	100.8	29.2	11.0	4.7	3.0	1.3	0.0	0.0	0.4	0.0	0.0
82.5°	53.8	12.3	6.8	3.4	1.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	40.7	8.1	3.8	2.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.7	2.5	1.3	0.0	0.0	0.0	0.0	0.0	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)