

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: P386946

Luminaire Tested: GAW-SA2C-830-U-SL3-HSS

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386946
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-SA2C-830-U-SL3-HSS
Description: GALLEON WALL LUMINAIRE
(2) 80 CRI, 3000K, 1050mA 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: 10022 lumens
Efficiency: N/A
Efficacy: 90.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

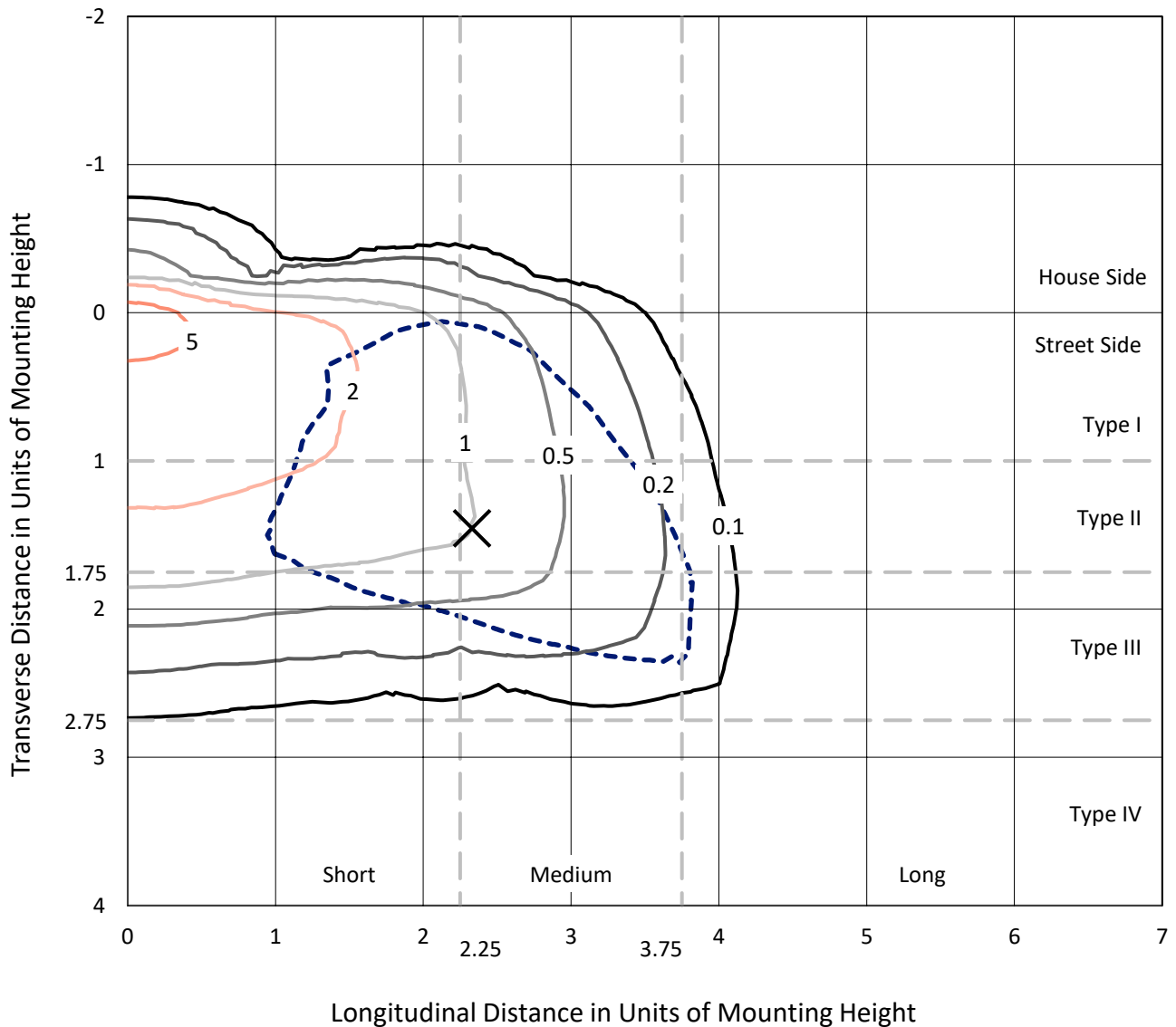
Input Watts (W): 111
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

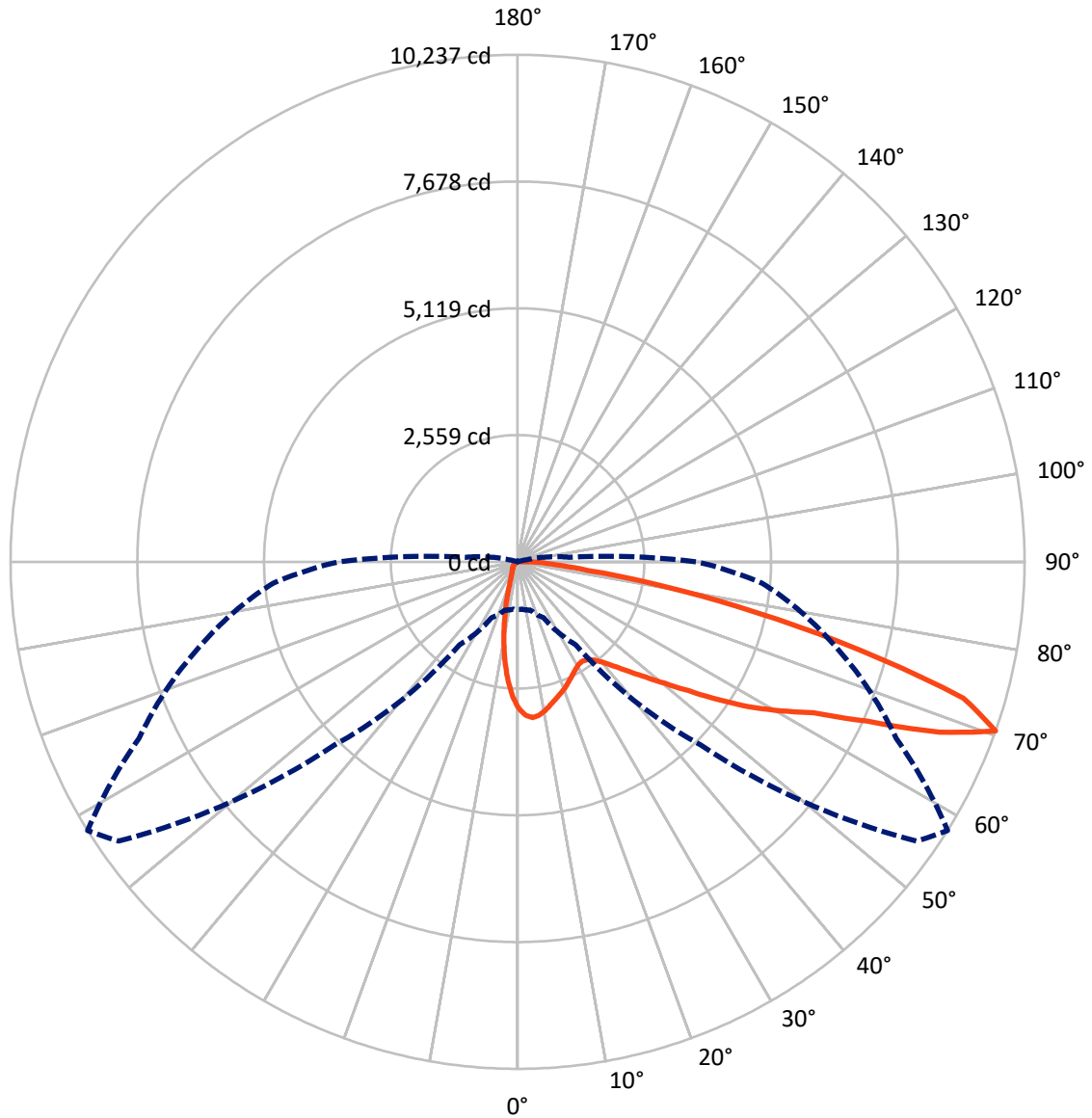
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.5 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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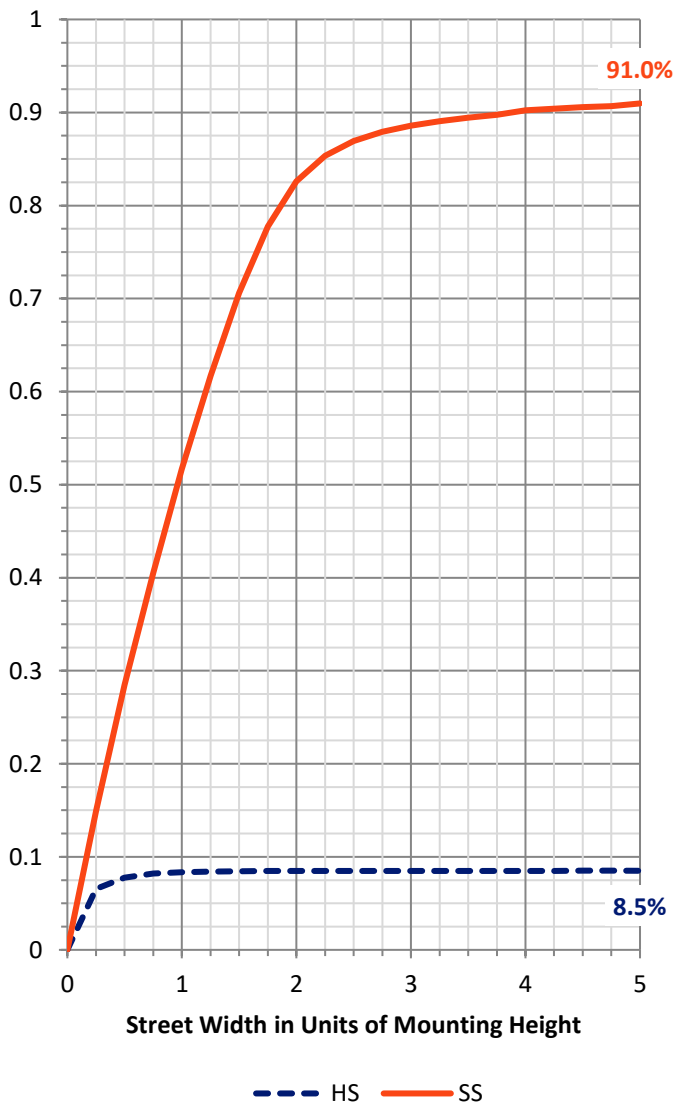
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	857.7	0.0	857.7
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	9164.3	0.0	9164.3
	% Fixture	91.4	0.0	91.4
Total	Lumens	10022.0	0.0	10022.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.1	2.4
10°-20°	508.1	5.1
20°-30°	668.0	6.7
30°-40°	884.6	8.8
40°-50°	1322.3	13.2
50°-60°	2118.2	21.1
60°-70°	2670.0	26.6
70°-80°	1440.2	14.4
80°-90°	168.6	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°	10022.0	100.0
0°-180°	10022.0	100.0

Coefficient of Utilization



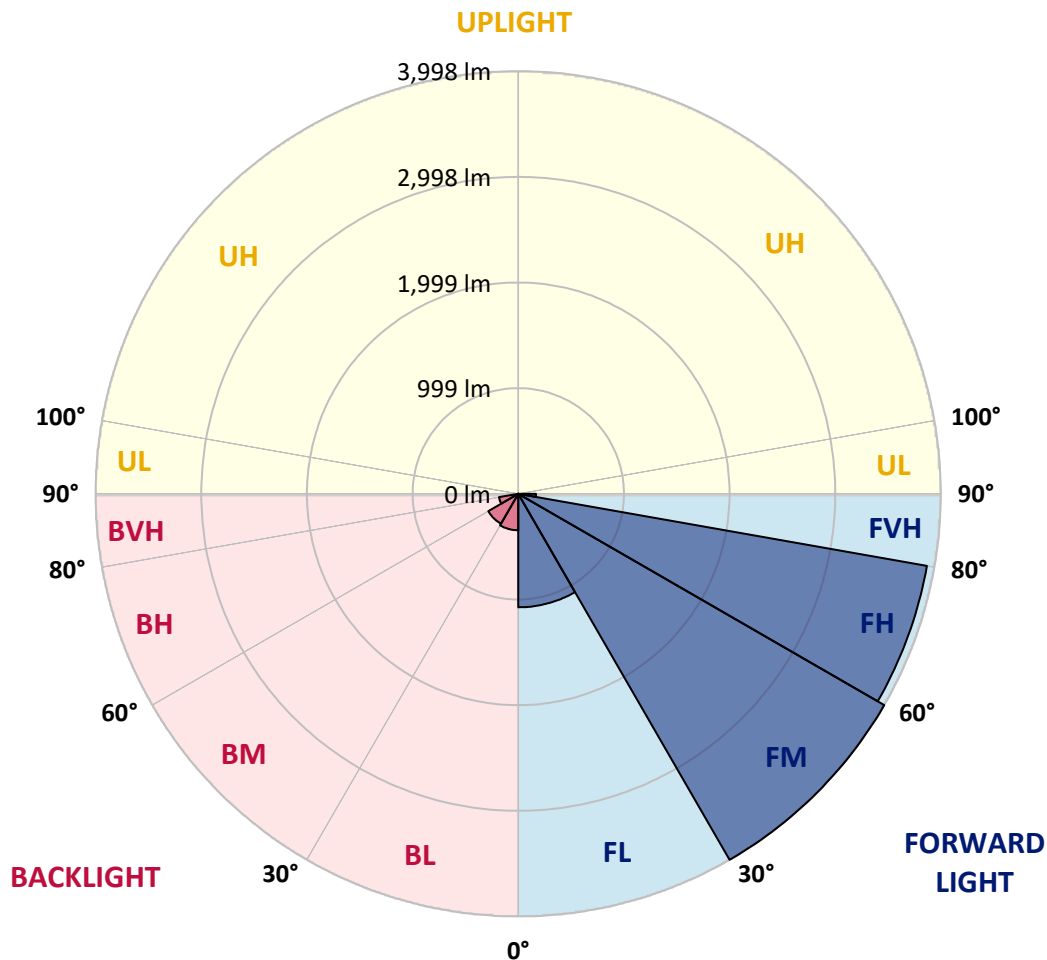
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1073.6	10.7			
FM (30°-60°)	3997.9	39.9			
FH (60°-80°)	3925.7	39.2			G2/5000
FVH (80°-90°)	167.1	1.7			G2/225
BL (0°-30°)	344.6	3.4	B1/500		
BM (30°-60°)	327.2	3.3	B1/1000		
BH (60°-80°)	184.5	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°	2960.5	2960.5	2960.5	2960.5	2960.5	2960.5	2960.5	2960.5	2960.5	2960.5	2960.5
2.5°	3205.9	3198.0	3195.1	3190.1	3170.9	3152.1	3115.1	3104.6	3081.3	3025.9	2967.1
5°	3208.4	3208.0	3216.7	3214.7	3208.0	3199.2	3172.6	3158.8	3119.2	3040.0	2932.5
7.5°	3053.8	3061.7	3081.3	3097.1	3115.5	3139.2	3142.6	3129.2	3096.7	3011.3	2868.8
10°	2846.3	2858.8	2886.3	2917.5	2965.5	3013.0	3055.5	3053.8	3042.5	2958.4	2792.1
12.5°	2638.3	2652.9	2684.6	2730.8	2798.8	2876.3	2952.1	2962.5	2981.3	2910.9	2721.2
15°	2456.2	2468.7	2500.0	2556.6	2640.8	2745.0	2856.3	2875.4	2923.8	2873.8	2662.1
17.5°	2301.6	2309.5	2332.4	2395.4	2492.9	2619.1	2763.8	2801.3	2873.4	2844.6	2610.8
20°	2193.7	2194.9	2209.9	2254.1	2351.6	2492.9	2667.9	2721.7	2820.0	2819.6	2557.9
22.5°	2140.3	2136.2	2139.1	2164.5	2236.2	2372.4	2572.1	2635.8	2772.1	2798.3	2504.1
25°	2130.3	2127.0	2118.7	2122.0	2165.3	2267.0	2475.4	2549.1	2730.0	2785.4	2457.5
27.5°	2161.6	2164.9	2150.7	2135.7	2139.1	2198.7	2389.5	2475.0	2695.8	2785.4	2424.5
30°	2224.5	2226.2	2215.8	2196.2	2169.9	2179.5	2329.9	2415.4	2678.7	2804.6	2403.7
32.5°	2294.1	2303.3	2302.0	2286.2	2248.7	2209.9	2315.8	2393.7	2677.5	2847.1	2401.6
35°	2380.4	2390.8	2408.3	2405.0	2365.8	2302.0	2364.1	2425.4	2702.1	2917.1	2424.1
37.5°	2472.0	2487.9	2525.4	2543.3	2517.9	2445.8	2472.5	2516.2	2767.9	3030.5	2481.2
40°	2560.8	2578.7	2647.1	2717.5	2698.3	2624.2	2636.7	2671.7	2885.0	3193.4	2589.6
42.5°	2647.9	2674.6	2775.0	2890.9	2913.8	2854.6	2861.3	2889.2	3058.8	3417.6	2766.7
45°	2752.1	2782.1	2930.9	3073.8	3135.1	3109.2	3137.6	3155.9	3285.9	3713.9	3005.5
47.5°	2905.0	2939.6	3122.1	3285.1	3392.6	3409.3	3466.4	3478.4	3573.0	4059.0	3316.8
50°	3203.4	3213.0	3378.0	3526.0	3681.0	3781.0	3846.0	3855.2	3920.6	4436.1	3705.6
52.5°	3578.9	3585.1	3678.5	3777.7	3953.9	4158.1	4310.2	4323.2	4336.9	4803.6	4089.4
55°	3951.9	3951.0	4012.7	4071.0	4272.7	4569.4	4899.5	4907.4	4808.6	5152.5	4382.8
57.5°	4184.8	4207.3	4301.1	4376.1	4657.8	5038.3	5496.3	5525.4	5304.1	5410.8	4672.8
60°	4110.6	4121.5	4329.4	4607.0	5137.4	5704.6	6100.1	6107.6	5676.7	5668.8	5039.5
62.5°	3502.2	3508.0	3834.8	4406.9	5380.4	6568.9	6828.5	6706.4	6105.1	6026.8	5478.3
65°	2400.4	2438.3	2711.2	3418.4	4934.1	7111.1	7956.2	7754.1	6758.1	6542.7	5875.1
67.5°	1413.5	1405.6	1540.7	2061.6	3623.9	6751.0	9382.7	9181.8	7648.7	6888.1	5758.8
70°	965.6	960.1	1011.8	1248.1	2045.7	5237.0	9831.5	10237.0	8435.0	6655.6	4956.2
72.5°	689.3	692.2	768.5	969.7	1284.4	3051.3	8454.6	9414.4	8188.7	5802.1	3767.2
75°	468.0	475.9	585.1	795.5	1126.0	1552.3	5999.7	7156.5	6668.1	4216.9	2165.3
77.5°	251.7	260.5	389.2	640.9	1018.1	1078.5	3859.3	4925.3	4188.6	1895.7	627.6
80°	105.0	110.0	182.1	465.9	879.7	947.2	2270.8	2986.7	1784.9	373.8	140.0
82.5°	45.4	47.9	75.8	278.0	657.6	799.7	1202.3	1436.9	540.9	82.1	70.4
85°	8.8	9.2	31.3	147.1	419.6	451.3	779.3	763.9	243.0	35.4	51.3
87.5°	0.0	0.0	7.5	46.3	123.4	245.9	475.5	469.7	82.5	17.1	19.2
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°	2960.5	2960.5	2960.5	2960.5	2960.5	2960.5	2960.5	2960.5	2960.5	2960.5	2960.5
2.5°	2937.1	2908.4	2847.9	2773.3	2716.2	2653.3	2603.3	2540.0	2512.5	2513.7	2498.7
5°	2871.3	2812.1	2678.3	2509.5	2379.5	2245.3	2129.9	2014.9	1947.0	1924.9	1904.0
7.5°	2777.1	2683.3	2470.0	2209.9	1989.9	1774.9	1587.7	1423.1	1319.0	1268.1	1249.4
10°	2670.8	2539.1	2230.3	1887.8	1573.6	1282.7	1040.2	829.3	745.1	688.0	673.4
12.5°	2577.5	2399.1	1996.1	1557.3	1184.3	833.5	602.2	470.9	413.8	391.3	387.6
15°	2489.5	2268.3	1770.7	1258.1	820.1	513.0	383.0	338.4	325.0	321.3	321.3
17.5°	2406.6	2143.7	1550.2	963.5	542.6	359.6	317.1	307.1	303.0	302.5	303.0
20°	2319.9	2019.1	1333.5	705.9	378.8	304.6	293.0	287.5	286.3	286.3	286.3
22.5°	2237.0	1894.5	1122.7	504.2	303.8	278.0	272.1	268.4	267.1	266.7	265.9
25°	2157.4	1776.1	916.8	356.3	266.7	254.6	249.6	244.6	240.9	238.8	237.5
27.5°	2092.0	1670.7	725.1	285.9	240.9	230.5	224.2	216.7	207.5	203.4	201.7
30°	2039.9	1574.4	558.8	241.3	216.7	206.3	196.7	183.8	170.4	163.4	162.9
32.5°	1999.1	1479.8	424.2	213.4	195.0	182.1	168.4	152.1	136.7	128.8	128.4
35°	1979.1	1396.5	324.2	192.9	175.9	159.6	142.5	124.6	109.6	102.1	101.3
37.5°	1992.4	1326.0	253.0	175.9	159.6	140.9	120.9	102.1	88.8	82.1	81.7
40°	2041.1	1281.0	205.4	161.3	145.9	122.9	101.3	83.8	72.5	67.1	66.7
42.5°	2144.9	1264.4	175.4	149.2	132.5	106.3	84.2	69.2	58.8	55.0	54.2
45°	2318.3	1288.9	155.0	137.5	118.8	90.4	69.6	56.7	47.5	44.6	44.2
47.5°	2549.1	1353.5	140.4	126.3	106.3	76.3	57.9	45.8	38.8	35.8	35.4
50°	2846.7	1456.1	128.4	115.0	94.6	64.6	47.9	36.3	30.0	27.9	27.9
52.5°	3170.5	1578.2	117.5	104.6	82.9	53.8	38.8	27.9	23.8	21.3	21.3
55°	3438.0	1684.8	105.8	96.7	68.8	44.6	29.6	21.3	17.5	16.3	16.3
57.5°	3705.1	1798.6	92.5	82.9	55.0	36.3	22.5	15.8	12.9	12.1	12.1
60°	4051.5	1937.8	79.6	67.5	43.3	27.5	16.7	11.3	9.6	9.2	9.2
62.5°	4432.3	2019.5	67.9	54.2	33.8	20.4	12.1	7.5	7.1	7.1	6.7
65°	4665.3	1904.0	57.1	43.3	26.3	15.4	7.9	5.4	6.3	5.8	5.0
67.5°	4368.2	1490.6	46.7	33.8	20.4	11.7	5.0	3.8	6.7	5.4	4.2
70°	3616.8	1043.5	36.3	23.8	16.3	10.0	3.3	2.5	7.1	5.4	3.3
72.5°	2706.7	698.4	28.8	15.8	12.1	8.8	2.9	1.3	6.3	4.6	2.9
75°	1479.0	281.3	22.9	10.0	7.5	6.3	2.1	0.8	4.2	3.3	2.1
77.5°	389.2	74.2	16.7	6.7	4.2	2.5	1.3	0.4	2.1	1.7	0.8
80°	99.2	28.8	10.8	4.6	2.9	1.3	0.0	0.0	0.4	0.0	0.0
82.5°	52.9	12.1	6.7	3.3	1.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	40.0	7.9	3.8	2.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.4	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)