

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: P387170

Luminaire Tested: GAW-SA2D-830-U-SL3-HSS

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P387170
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-SA2D-830-U-SL3-HSS
Description: GALLEON WALL LUMINAIRE
(2) 80 CRI, 3000K, 1200mA 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: 10993 lumens
Efficiency: N/A
Efficacy: 85.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

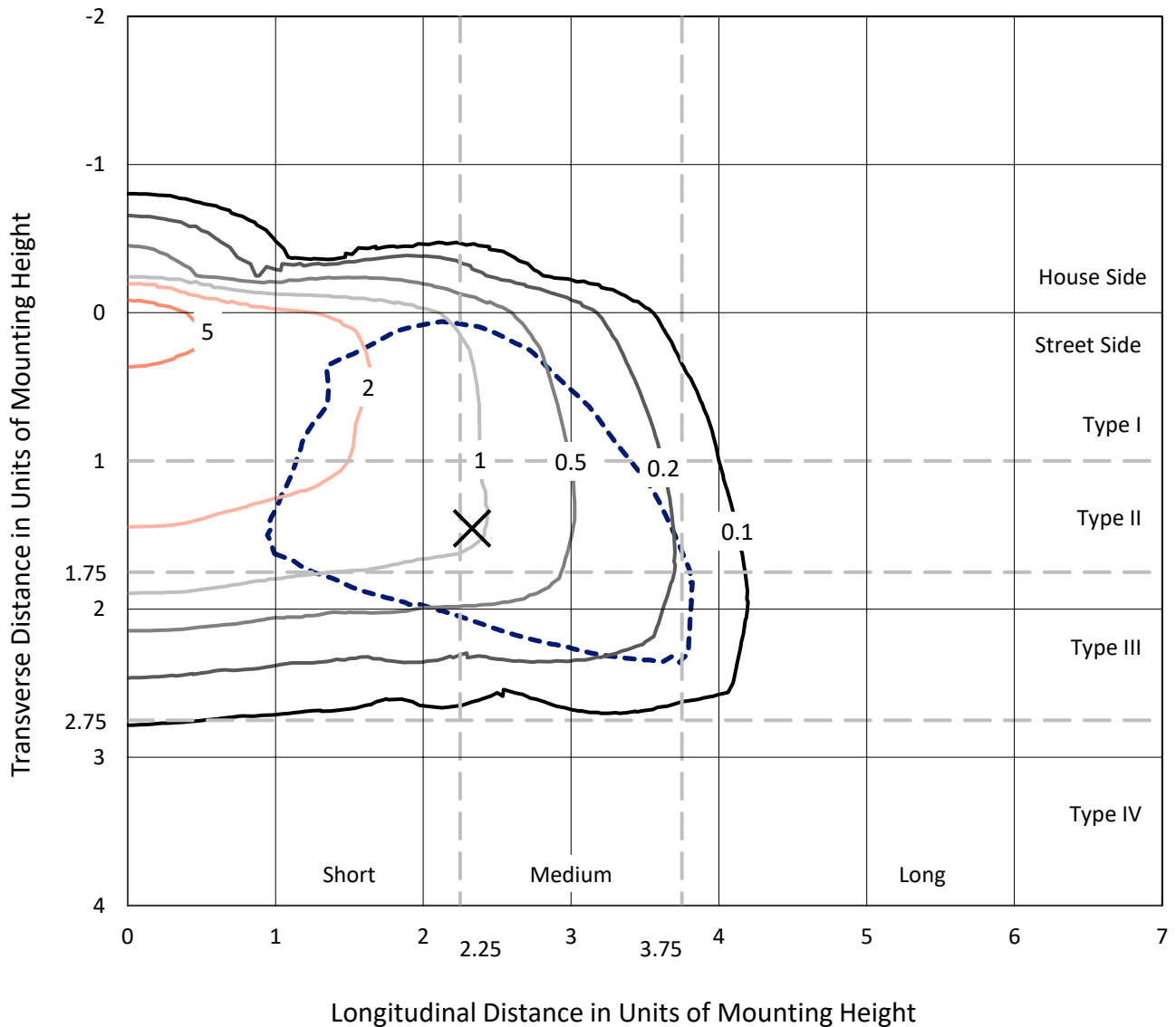
Input Watts (W): 128
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

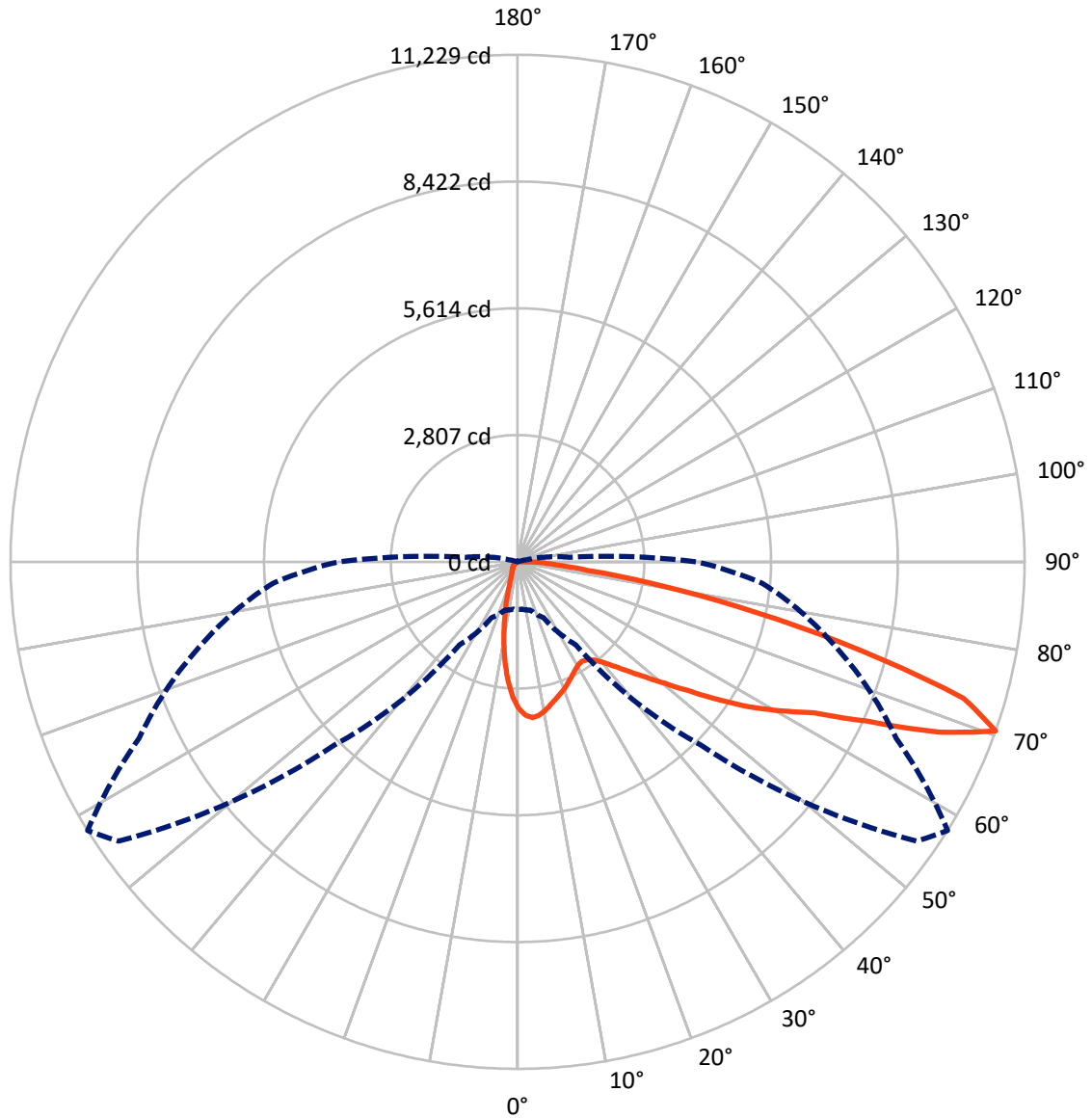
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.2 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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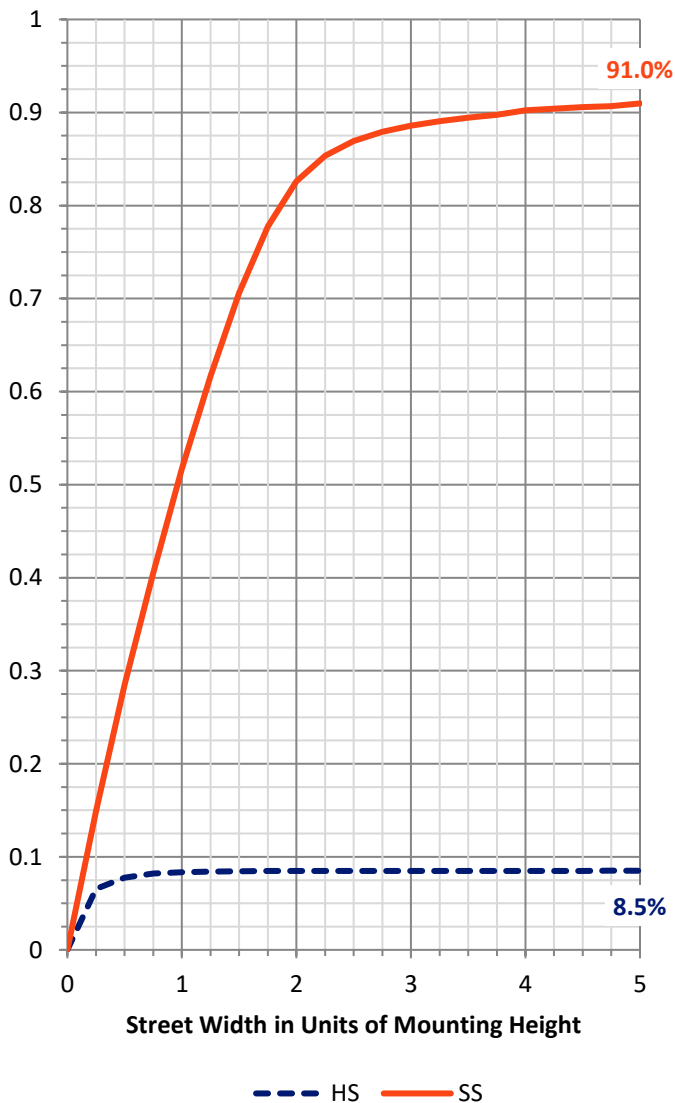
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	940.8	0.0	940.8
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	10052.2	0.0	10052.2
	% Fixture	91.4	0.0	91.4
Total	Lumens	10993.0	0.0	10993.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.5	2.4
10°-20°	557.3	5.1
20°-30°	732.7	6.7
30°-40°	970.3	8.8
40°-50°	1450.4	13.2
50°-60°	2323.4	21.1
60°-70°	2928.7	26.6
70°-80°	1579.7	14.4
80°-90°	184.9	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°	10993.0	100.0
0°-180°	10993.0	100.0

Coefficient of Utilization

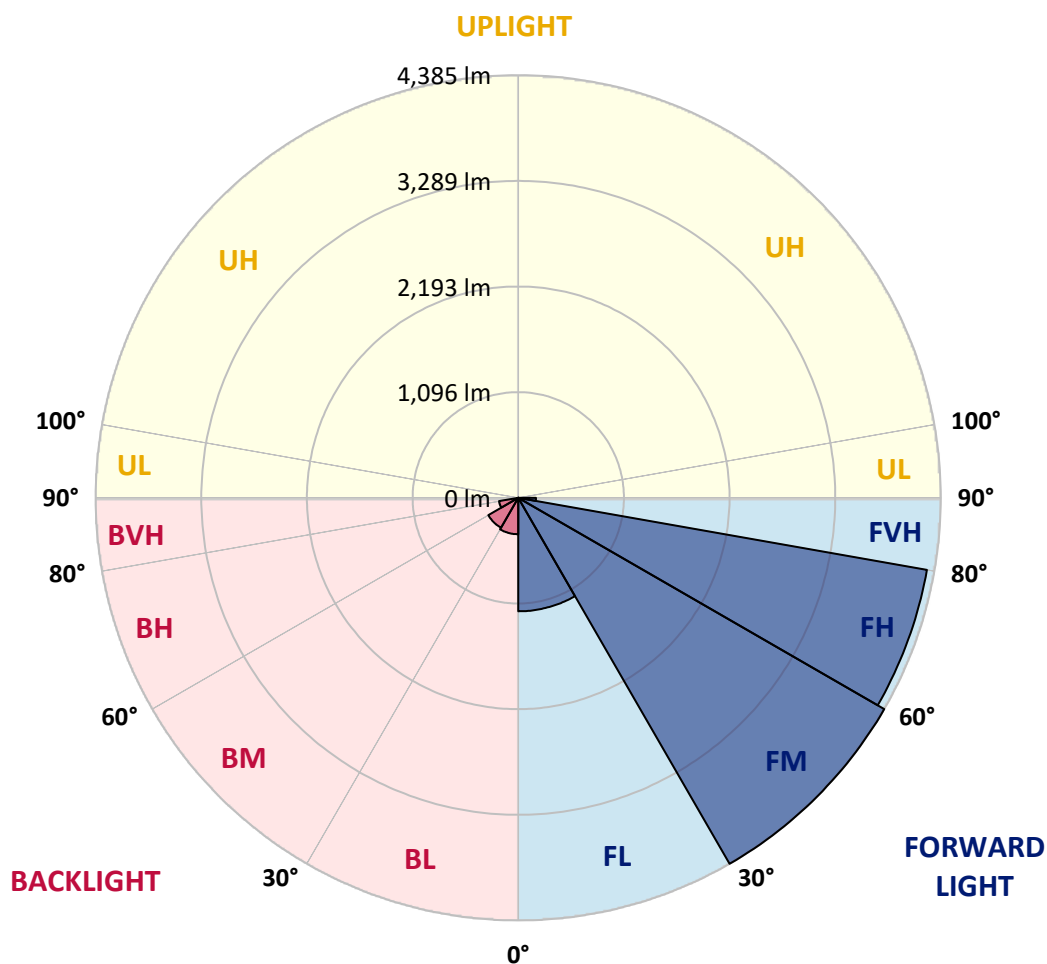


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1177.6	10.7			
FM (30°-60°)	4385.3	39.9			
FH (60°-80°)	4306.1	39.2			G2/5000
FVH (80°-90°)	183.3	1.7			G2/225
BL (0°-30°)	378.0	3.4	B1/500		
BM (30°-60°)	358.9	3.3	B1/1000		
BH (60°-80°)	202.3	1.8	B1/500		G1/500
BVH (80°-90°)	1.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	3247.3	3247.3	3247.3	3247.3	3247.3	3247.3	3247.3	3247.3	3247.3	3247.3	3247.3
2.5°	3516.5	3507.8	3504.6	3499.1	3478.1	3457.5	3416.9	3405.4	3379.8	3319.0	3254.6
5°	3519.3	3518.8	3528.4	3526.1	3518.8	3509.2	3479.9	3464.9	3421.4	3334.6	3216.7
7.5°	3349.7	3358.4	3379.8	3397.2	3417.3	3443.4	3447.0	3432.4	3396.8	3303.0	3146.7
10°	3122.0	3135.7	3165.9	3200.2	3252.8	3304.9	3351.5	3349.7	3337.3	3245.0	3062.6
12.5°	2893.9	2909.9	2944.7	2995.4	3069.9	3154.9	3238.1	3249.6	3270.1	3192.9	2984.9
15°	2694.2	2707.9	2742.2	2804.3	2896.7	3011.0	3133.0	3154.0	3207.1	3152.2	2920.0
17.5°	2524.6	2533.3	2558.4	2627.4	2734.4	2872.9	3031.5	3072.7	3151.7	3120.2	2863.8
20°	2406.2	2407.6	2424.0	2472.5	2579.4	2734.4	2926.4	2985.4	3093.2	3092.8	2805.7
22.5°	2347.7	2343.1	2346.3	2374.2	2452.8	2602.3	2821.3	2891.2	3040.7	3069.5	2746.7
25°	2336.7	2333.1	2323.9	2327.6	2375.1	2486.7	2715.2	2796.1	2994.5	3055.3	2695.6
27.5°	2371.0	2374.7	2359.1	2342.7	2346.3	2411.7	2621.0	2714.8	2957.0	3055.3	2659.4
30°	2440.0	2441.9	2430.4	2408.9	2380.2	2390.7	2555.7	2649.4	2938.3	3076.3	2636.6
32.5°	2516.4	2526.4	2525.1	2507.7	2466.5	2424.0	2540.1	2625.6	2936.9	3122.9	2634.3
35°	2611.0	2622.4	2641.6	2638.0	2595.0	2525.1	2593.2	2660.4	2963.9	3199.7	2659.0
37.5°	2711.6	2728.9	2770.1	2789.7	2761.8	2682.8	2712.0	2760.0	3036.1	3324.1	2721.6
40°	2808.9	2828.6	2903.5	2980.8	2959.8	2878.4	2892.1	2930.5	3164.5	3502.8	2840.5
42.5°	2904.5	2933.7	3043.9	3170.9	3196.1	3131.2	3138.5	3169.1	3355.2	3748.7	3034.7
45°	3018.7	3051.6	3214.8	3371.6	3438.8	3410.5	3441.6	3461.7	3604.3	4073.7	3296.6
47.5°	3186.5	3224.4	3424.6	3603.4	3721.3	3739.6	3802.2	3815.5	3919.2	4452.2	3638.1
50°	3513.8	3524.3	3705.3	3867.6	4037.6	4147.3	4218.6	4228.7	4300.5	4865.9	4064.6
52.5°	3925.6	3932.5	4034.9	4143.7	4337.0	4561.0	4727.8	4742.0	4757.1	5269.1	4485.6
55°	4334.7	4333.8	4401.5	4465.5	4686.7	5012.2	5374.2	5382.9	5274.5	5651.7	4807.4
57.5°	4590.3	4614.9	4717.8	4800.1	5109.1	5526.4	6028.8	6060.8	5818.0	5935.1	5125.5
60°	4508.9	4520.8	4748.9	5053.3	5635.2	6257.3	6691.1	6699.3	6226.7	6218.0	5527.8
62.5°	3841.5	3847.9	4206.3	4833.9	5901.7	7205.4	7490.1	7356.2	6696.6	6610.7	6009.1
65°	2632.9	2674.5	2973.9	3749.6	5412.1	7800.1	8727.1	8505.4	7412.9	7176.6	6444.3
67.5°	1550.5	1541.8	1689.9	2261.3	3975.0	7405.1	10291.7	10071.4	8389.7	7555.5	6316.7
70°	1059.1	1053.2	1109.9	1369.0	2243.9	5744.4	10784.0	11228.8	9252.3	7300.4	5436.4
72.5°	756.1	759.3	842.9	1063.7	1408.8	3346.9	9273.8	10326.5	8982.1	6364.3	4132.2
75°	513.3	522.0	641.8	872.6	1235.1	1702.7	6581.0	7849.9	7314.2	4625.5	2375.1
77.5°	276.1	285.7	426.9	703.0	1116.7	1183.0	4233.3	5402.5	4594.4	2079.4	688.4
80°	115.2	120.7	199.8	511.0	965.0	1039.0	2490.8	3276.1	1957.8	410.0	153.6
82.5°	49.8	52.6	83.2	304.9	721.3	877.2	1318.8	1576.1	593.3	90.0	77.3
85°	9.6	10.1	34.3	161.4	460.3	495.0	854.8	837.9	266.5	38.9	56.2
87.5°	0.0	0.0	8.2	50.7	135.3	269.7	521.6	515.2	90.5	18.7	21.0
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°	3247.3	3247.3	3247.3	3247.3	3247.3	3247.3	3247.3	3247.3	3247.3	3247.3	3247.3
2.5°	3221.7	3190.1	3123.9	3042.0	2979.4	2910.4	2855.5	2786.1	2755.9	2757.3	2740.8
5°	3149.5	3084.6	2937.8	2752.7	2610.1	2462.9	2336.3	2210.1	2135.6	2111.4	2088.5
7.5°	3046.2	2943.3	2709.3	2424.0	2182.7	1946.8	1741.6	1561.0	1446.7	1391.0	1370.4
10°	2929.6	2785.1	2446.4	2070.7	1726.0	1407.0	1140.9	909.6	817.3	754.7	738.7
12.5°	2827.2	2631.6	2189.5	1708.2	1299.1	914.2	660.5	516.5	453.9	429.2	425.1
15°	2730.8	2488.0	1942.2	1380.0	899.6	562.7	420.1	371.2	356.5	352.4	352.4
17.5°	2639.8	2351.4	1700.4	1056.8	595.2	394.5	347.9	336.9	332.3	331.9	332.3
20°	2544.7	2214.7	1462.7	774.3	415.5	334.1	321.3	315.4	314.0	314.0	314.0
22.5°	2453.7	2078.0	1231.4	553.1	333.2	304.9	298.5	294.4	293.0	292.5	291.6
25°	2366.4	1948.2	1005.6	390.8	292.5	279.3	273.8	268.3	264.2	261.9	260.6
27.5°	2294.7	1832.5	795.4	313.6	264.2	252.8	245.9	237.7	227.6	223.1	221.2
30°	2237.5	1726.9	613.0	264.7	237.7	226.3	215.8	201.6	187.0	179.2	178.7
32.5°	2192.7	1623.2	465.3	234.0	213.9	199.8	184.7	166.8	149.9	141.2	140.8
35°	2170.8	1531.8	355.6	211.6	192.9	175.1	156.3	136.7	120.2	112.0	111.1
37.5°	2185.4	1454.5	277.5	192.9	175.1	154.5	132.6	112.0	97.4	90.0	89.6
40°	2238.9	1405.1	225.4	176.9	160.0	134.8	111.1	91.9	79.5	73.6	73.1
42.5°	2352.7	1386.9	192.4	163.6	145.4	116.6	92.3	75.9	64.5	60.3	59.4
45°	2542.9	1413.8	170.0	150.8	130.3	99.2	76.3	62.2	52.1	48.9	48.5
47.5°	2796.1	1484.7	154.0	138.5	116.6	83.7	63.5	50.3	42.5	39.3	38.9
50°	3122.5	1597.1	140.8	126.2	103.8	70.9	52.6	39.8	32.9	30.6	30.6
52.5°	3477.7	1731.1	128.9	114.7	91.0	59.0	42.5	30.6	26.1	23.3	23.3
55°	3771.1	1848.1	116.1	106.0	75.4	48.9	32.5	23.3	19.2	17.8	17.8
57.5°	4064.1	1972.9	101.5	91.0	60.3	39.8	24.7	17.4	14.2	13.3	13.3
60°	4444.0	2125.5	87.3	74.1	47.5	30.2	18.3	12.3	10.5	10.1	10.1
62.5°	4861.8	2215.1	74.5	59.4	37.0	22.4	13.3	8.2	7.8	7.8	7.3
65°	5117.3	2088.5	62.6	47.5	28.8	16.9	8.7	5.9	6.9	6.4	5.5
67.5°	4791.4	1635.1	51.2	37.0	22.4	12.8	5.5	4.1	7.3	5.9	4.6
70°	3967.2	1144.6	39.8	26.1	17.8	11.0	3.7	2.7	7.8	5.9	3.7
72.5°	2968.9	766.1	31.5	17.4	13.3	9.6	3.2	1.4	6.9	5.0	3.2
75°	1622.3	308.5	25.1	11.0	8.2	6.9	2.3	0.9	4.6	3.7	2.3
77.5°	426.9	81.4	18.3	7.3	4.6	2.7	1.4	0.5	2.3	1.8	0.9
80°	108.8	31.5	11.9	5.0	3.2	1.4	0.0	0.0	0.5	0.0	0.0
82.5°	58.1	13.3	7.3	3.7	1.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	43.9	8.7	4.1	2.3	0.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	16.9	2.7	1.4	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)