

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: P386834

Luminaire Tested: GAW-SA2C-735-U-SL3-HSS

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386834
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-735-U-SL3-HSS
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 3500K, 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: 11847.6 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

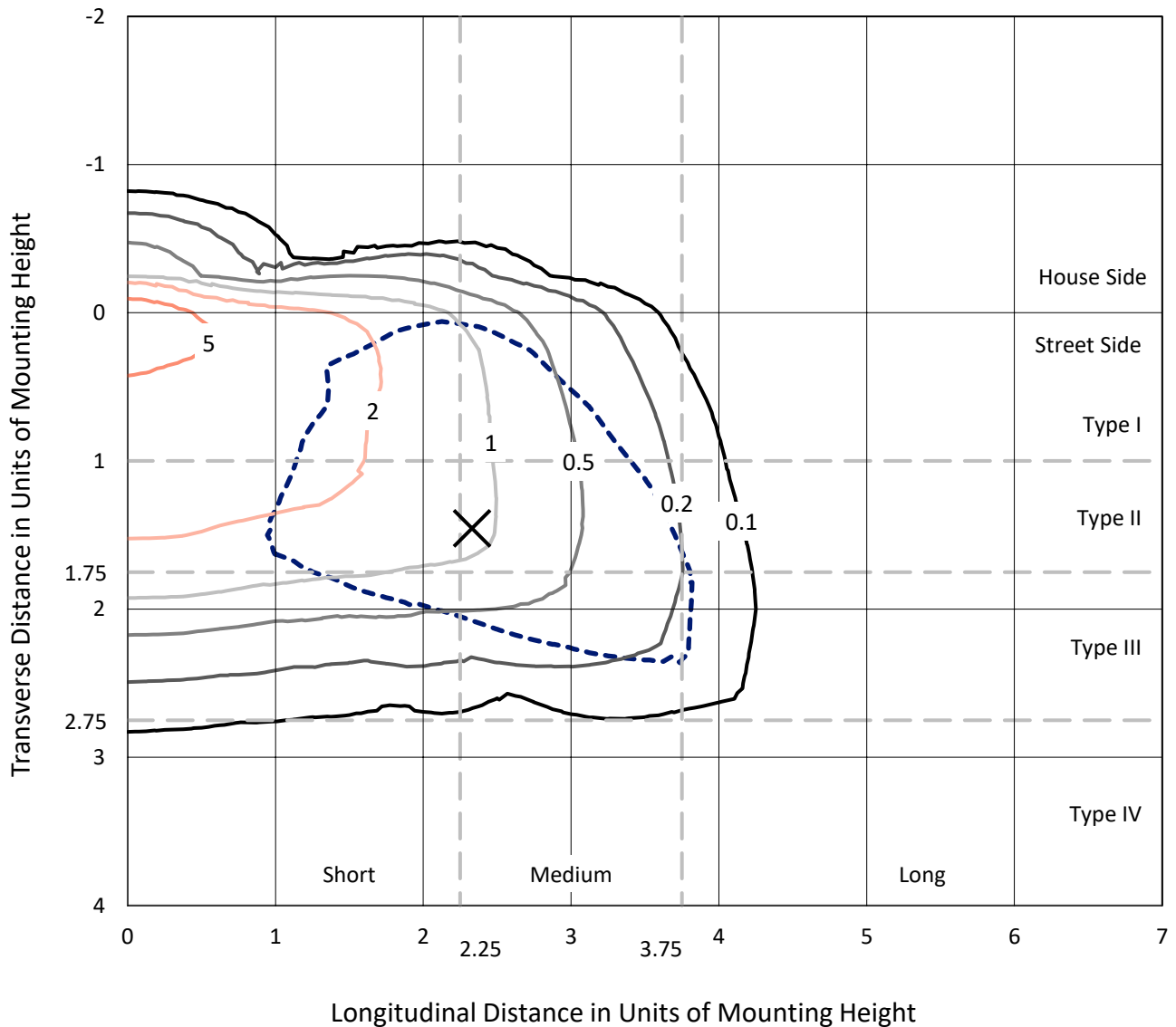
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

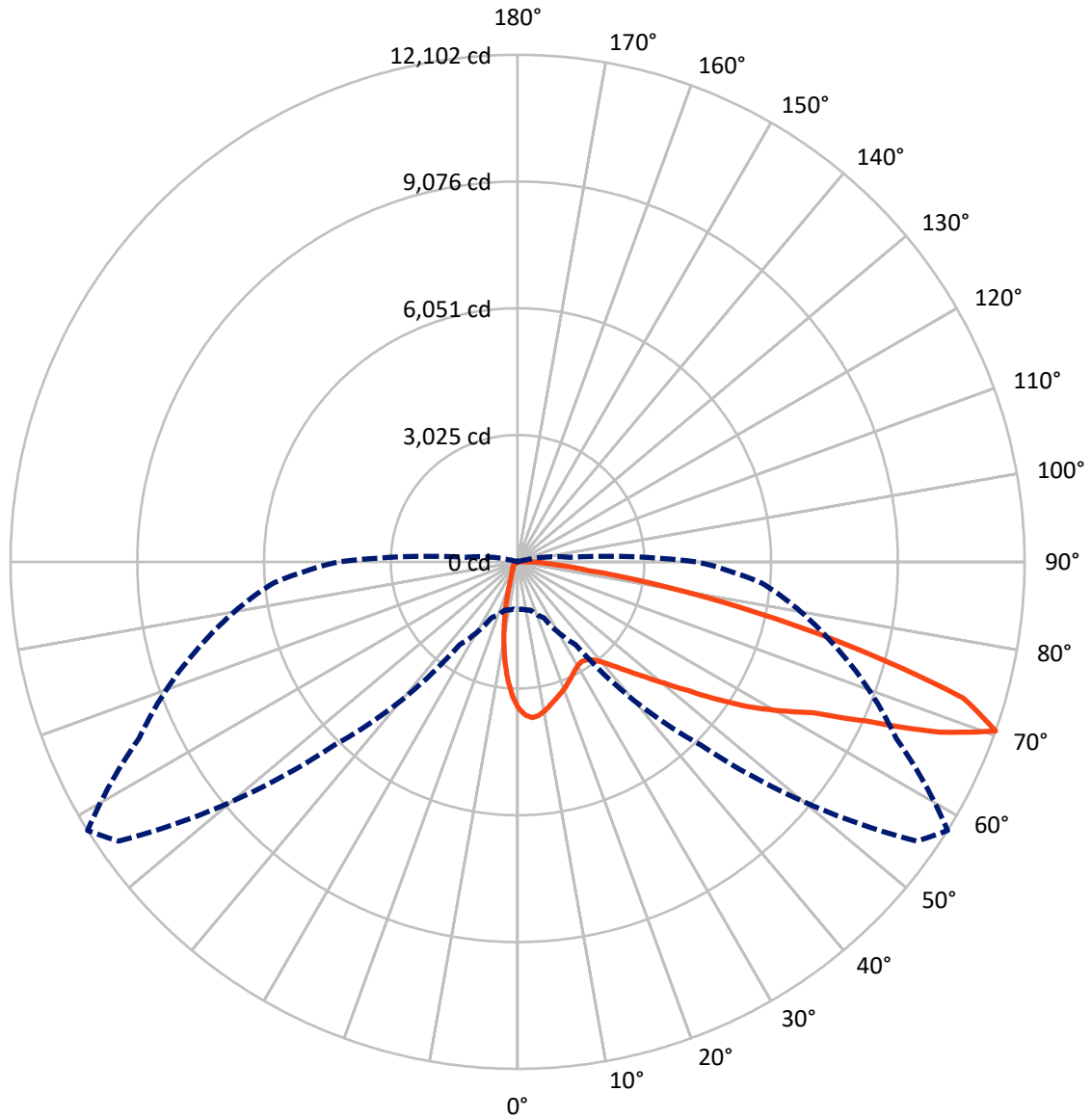
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.9 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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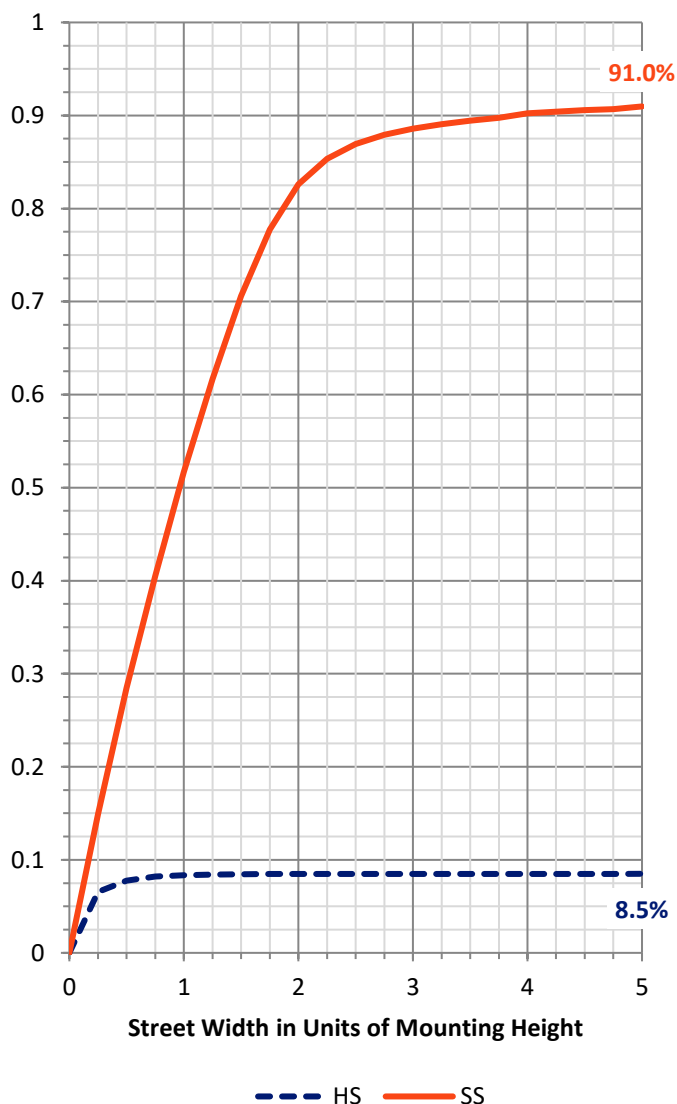
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1013.9	0.0	1013.9
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	10833.7	0.0	10833.7
	% Fixture	91.4	0.0	91.4
Total	Lumens	11847.6	0.0	11847.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.2	2.4
10°-20°	600.6	5.1
20°-30°	789.6	6.7
30°-40°	1045.8	8.8
40°-50°	1563.1	13.2
50°-60°	2504.1	21.1
60°-70°	3156.4	26.6
70°-80°	1702.5	14.4
80°-90°	199.3	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°	11847.6	100.0
0°-180°	11847.6	100.0

Coefficient of Utilization



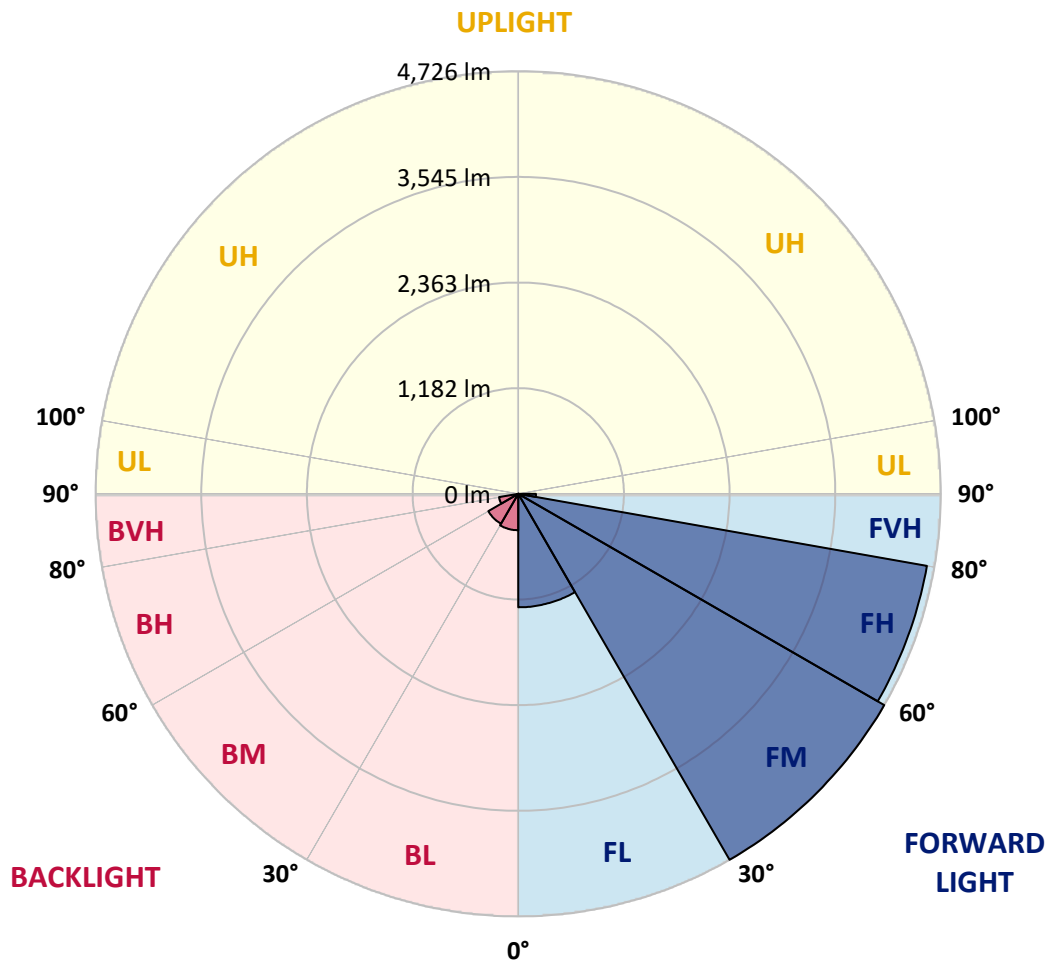
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1269.1	10.7			
FM (30°-60°)	4726.2	39.9			
FH (60°-80°)	4640.8	39.2			G2/5000
FVH (80°-90°)	197.6	1.7			G2/225
BL (0°-30°)	407.3	3.4	B1/500		
BM (30°-60°)	386.8	3.3	B1/1000		
BH (60°-80°)	218.0	1.8	B1/500		G1/500
BVH (80°-90°)	1.7	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°	3499.7	3499.7	3499.7	3499.7	3499.7	3499.7	3499.7	3499.7	3499.7	3499.7	3499.7
2.5°	3789.9	3780.5	3777.1	3771.2	3748.6	3726.4	3682.5	3670.2	3642.6	3577.1	3507.6
5°	3792.9	3792.3	3802.7	3800.2	3792.3	3782.0	3750.5	3734.3	3687.4	3593.8	3466.7
7.5°	3610.1	3619.5	3642.6	3661.3	3683.0	3711.1	3715.0	3699.2	3660.8	3559.8	3391.4
10°	3364.7	3379.6	3412.1	3449.0	3505.6	3561.8	3612.1	3610.1	3596.8	3497.3	3300.7
12.5°	3118.9	3136.2	3173.6	3228.3	3308.5	3400.2	3489.8	3502.2	3524.3	3441.1	3217.0
15°	2903.7	2918.4	2955.3	3022.4	3121.9	3245.0	3376.6	3399.2	3456.4	3397.2	3147.0
17.5°	2720.9	2730.3	2757.3	2831.7	2947.0	3096.2	3267.2	3311.6	3396.8	3362.7	3086.4
20°	2593.3	2594.8	2612.5	2664.7	2779.9	2947.0	3153.9	3217.4	3333.7	3333.3	3023.8
22.5°	2530.3	2525.3	2528.8	2558.8	2643.5	2804.7	3040.6	3116.0	3277.1	3308.1	2960.3
25°	2518.4	2514.5	2504.6	2508.6	2559.8	2680.0	2926.3	3013.5	3227.3	3292.9	2905.1
27.5°	2555.3	2559.3	2542.6	2524.8	2528.8	2599.2	2824.9	2925.8	3186.9	3292.9	2866.2
30°	2629.7	2631.7	2619.4	2596.2	2565.2	2576.6	2754.4	2855.4	3166.7	3315.5	2841.6
32.5°	2712.0	2722.8	2721.3	2702.6	2658.3	2612.5	2737.6	2829.7	3165.2	3365.8	2839.1
35°	2814.0	2826.3	2847.0	2843.1	2796.8	2721.3	2794.8	2867.2	3194.3	3448.5	2865.7
37.5°	2922.4	2941.1	2985.4	3006.6	2976.6	2891.4	2922.8	2974.6	3272.1	3582.5	2933.2
40°	3027.3	3048.5	3129.3	3212.5	3189.9	3102.2	3116.9	3158.3	3410.6	3775.1	3061.3
42.5°	3130.2	3161.8	3280.6	3417.4	3444.6	3374.6	3382.5	3415.4	3616.0	4040.1	3270.7
45°	3253.4	3288.9	3464.8	3633.8	3706.2	3675.6	3709.1	3730.8	3884.5	4390.4	3553.0
47.5°	3434.2	3475.1	3690.9	3883.5	4010.6	4030.3	4097.8	4112.1	4223.9	4798.3	3920.9
50°	3787.0	3798.3	3993.4	4168.3	4351.6	4469.7	4546.6	4557.5	4634.8	5244.2	4380.6
52.5°	4230.8	4238.2	4348.5	4465.8	4674.2	4915.6	5095.4	5110.7	5126.9	5678.7	4834.3
55°	4671.7	4670.8	4743.7	4812.6	5051.0	5401.8	5792.0	5801.3	5684.6	6091.0	5181.1
57.5°	4947.1	4973.7	5084.6	5173.2	5506.3	5956.0	6497.5	6532.0	6270.4	6396.5	5524.0
60°	4859.4	4872.3	5118.1	5446.1	6073.3	6743.8	7211.4	7220.2	6710.7	6701.4	5957.5
62.5°	4140.2	4147.0	4533.3	5209.7	6360.5	7765.5	8072.5	7928.1	7217.2	7124.6	6476.3
65°	2837.6	2882.4	3205.1	4041.2	5832.9	8406.4	9405.5	9166.6	7989.2	7734.5	6945.3
67.5°	1671.1	1661.7	1821.3	2437.1	4284.0	7980.8	11091.9	10854.4	9041.9	8142.9	6807.8
70°	1141.5	1135.1	1196.1	1475.5	2418.4	6191.1	11622.5	12101.7	9971.6	7868.0	5859.0
72.5°	814.8	818.3	908.4	1146.3	1518.3	3607.2	9994.8	11129.3	9680.5	6859.1	4453.5
75°	553.2	562.6	691.7	940.4	1331.1	1835.1	7092.6	8460.2	7882.7	4985.1	2559.8
77.5°	297.6	307.9	460.1	757.7	1203.6	1274.9	4562.4	5822.6	4951.5	2241.0	741.9
80°	124.2	130.0	215.3	550.8	1040.0	1119.8	2684.4	3530.8	2110.0	441.9	165.5
82.5°	53.7	56.6	89.6	328.6	777.3	945.4	1421.3	1698.6	639.4	97.0	83.2
85°	10.3	10.8	36.9	173.9	496.1	533.6	921.3	903.0	287.2	41.9	60.6
87.5°	0.0	0.0	8.8	54.7	145.8	290.6	562.1	555.2	97.5	20.2	22.6
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°	3499.7	3499.7	3499.7	3499.7	3499.7	3499.7	3499.7	3499.7	3499.7	3499.7	3499.7
2.5°	3472.2	3438.2	3366.7	3278.6	3211.0	3136.6	3077.5	3002.7	2970.2	2971.6	2953.9
5°	3394.3	3324.3	3166.2	2966.7	2813.0	2654.4	2517.9	2381.9	2301.6	2275.5	2250.9
7.5°	3283.0	3172.1	2919.9	2612.5	2352.3	2098.1	1877.0	1682.4	1559.2	1499.1	1476.9
10°	3157.3	3001.6	2636.6	2231.7	1860.2	1516.4	1229.7	980.4	880.9	813.3	796.1
12.5°	3047.0	2836.1	2359.8	1841.0	1400.1	985.3	711.9	556.7	489.2	462.6	458.1
15°	2943.0	2681.5	2093.3	1487.2	969.5	606.5	452.7	400.0	384.3	379.8	379.8
17.5°	2845.0	2534.1	1832.7	1139.0	641.4	425.2	374.9	363.1	358.2	357.6	358.2
20°	2742.6	2386.8	1576.5	834.6	447.8	360.2	346.4	340.0	338.5	338.5	338.5
22.5°	2644.5	2239.5	1327.2	596.1	359.1	328.6	321.7	317.2	315.8	315.3	314.3
25°	2550.5	2099.6	1083.8	421.2	315.3	301.0	295.1	289.1	284.7	282.3	280.8
27.5°	2473.0	1975.0	857.2	338.0	284.7	272.4	265.0	256.2	245.4	240.4	238.4
30°	2411.5	1861.2	660.7	285.2	256.2	243.9	232.5	217.3	201.5	193.1	192.7
32.5°	2363.2	1749.3	501.5	252.2	230.5	215.3	199.1	179.8	161.6	152.2	151.7
35°	2339.6	1650.9	383.3	228.1	207.9	188.7	168.5	147.3	129.5	120.7	119.7
37.5°	2355.3	1567.6	299.0	207.9	188.7	166.6	142.9	120.7	104.9	97.0	96.6
40°	2412.9	1514.4	242.8	190.7	172.4	145.3	119.7	99.0	85.8	79.3	78.8
42.5°	2535.6	1494.7	207.4	176.3	156.7	125.6	99.5	81.8	69.4	65.0	64.1
45°	2740.6	1523.8	183.3	162.6	140.4	106.9	82.3	67.0	56.2	52.7	52.2
47.5°	3013.5	1600.1	166.0	149.3	125.6	90.2	68.5	54.2	45.8	42.4	41.9
50°	3365.3	1721.3	151.7	135.9	111.8	76.4	56.6	42.8	35.5	33.0	33.0
52.5°	3748.0	1865.6	138.9	123.6	98.1	63.6	45.8	33.0	28.1	25.1	25.1
55°	4064.3	1991.8	125.1	114.3	81.3	52.7	34.9	25.1	20.7	19.3	19.3
57.5°	4380.1	2126.2	109.3	98.1	65.0	42.8	26.6	18.7	15.3	14.3	14.3
60°	4789.5	2290.8	94.1	79.8	51.2	32.5	19.7	13.3	11.4	10.8	10.8
62.5°	5239.8	2387.4	80.3	64.1	39.9	24.1	14.3	8.8	8.4	8.4	7.9
65°	5515.2	2250.9	67.4	51.2	31.0	18.2	9.4	6.4	7.4	6.9	5.9
67.5°	5163.8	1762.2	55.1	39.9	24.1	13.8	5.9	4.4	7.9	6.4	4.9
70°	4275.7	1233.6	42.8	28.1	19.3	11.8	3.9	2.9	8.4	6.4	3.9
72.5°	3199.7	825.6	34.0	18.7	14.3	10.3	3.5	1.5	7.4	5.4	3.5
75°	1748.4	332.5	27.1	11.8	8.8	7.4	2.4	0.9	4.9	3.9	2.4
77.5°	460.1	87.6	19.7	7.9	4.9	2.9	1.5	0.5	2.4	2.0	0.9
80°	117.2	34.0	12.8	5.4	3.5	1.5	0.0	0.0	0.5	0.0	0.0
82.5°	62.6	14.3	7.9	3.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	47.3	9.4	4.4	2.4	0.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	18.2	2.9	1.5	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)