

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: P386611

Luminaire Tested: GAW-SA2B-735-U-SL3

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386611
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GAW-SA2B-735-U-SL3
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11204.2 lumens
Efficiency: N/A
Efficacy: 130.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

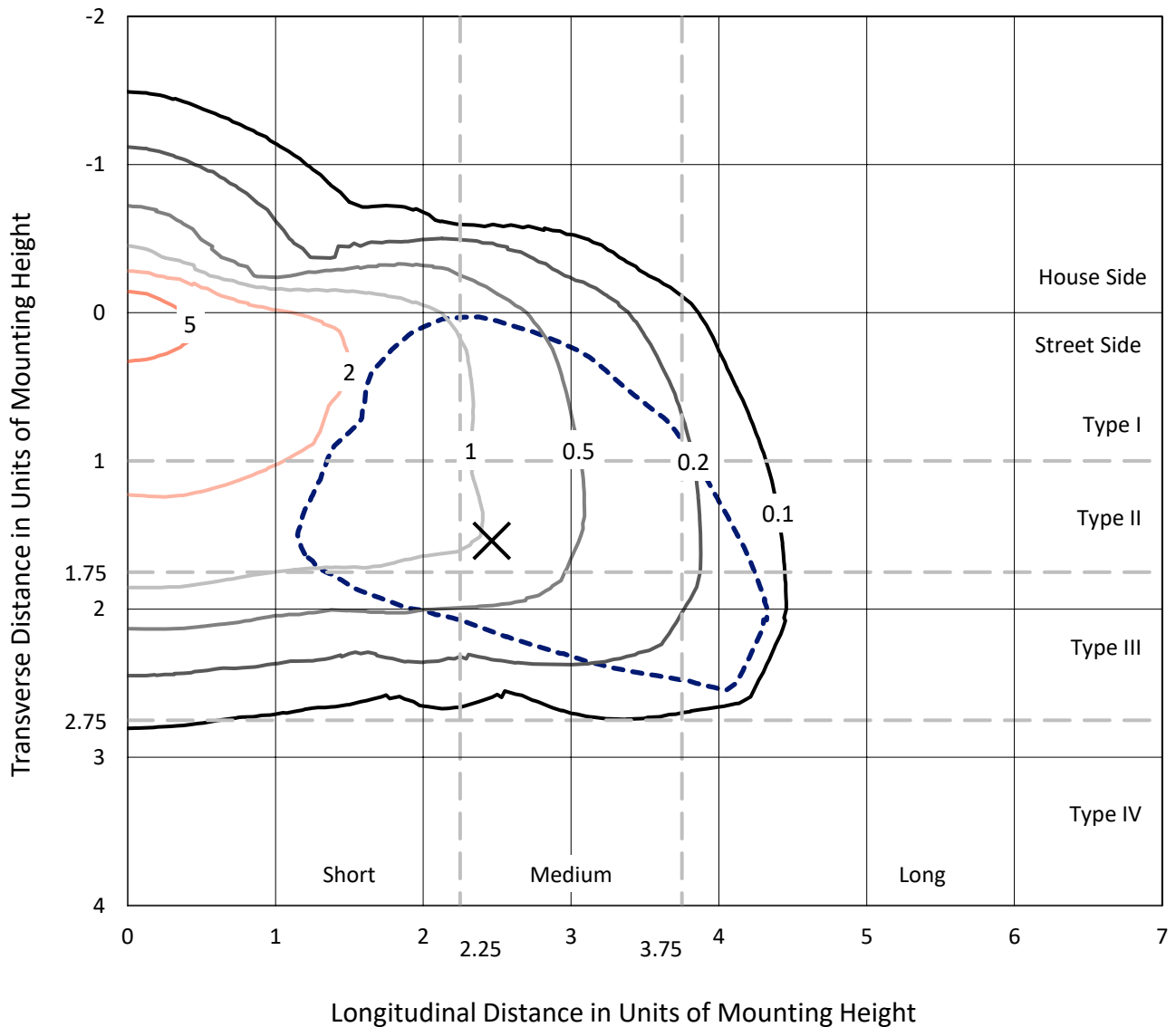
Input Watts (W): 86
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

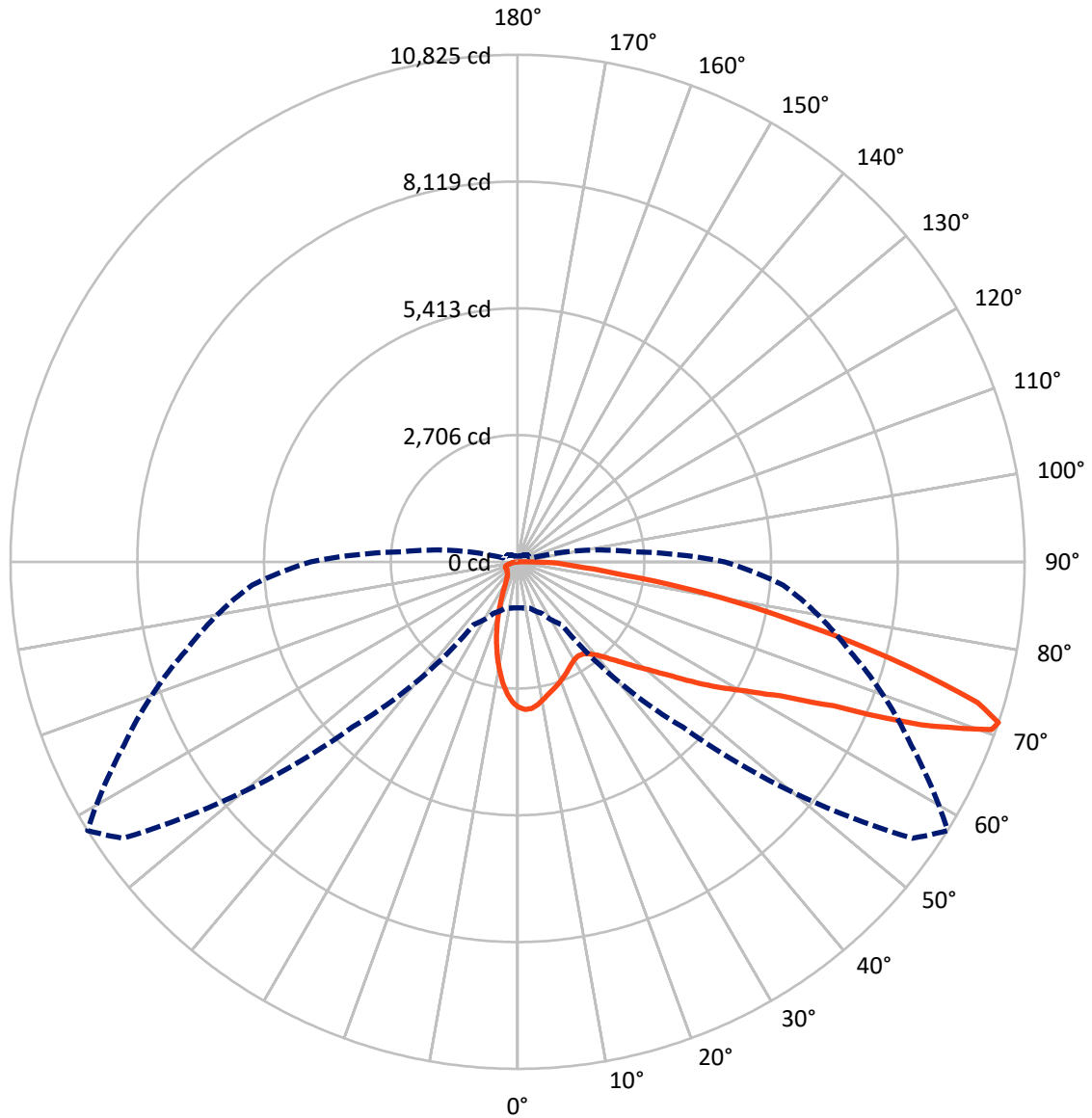
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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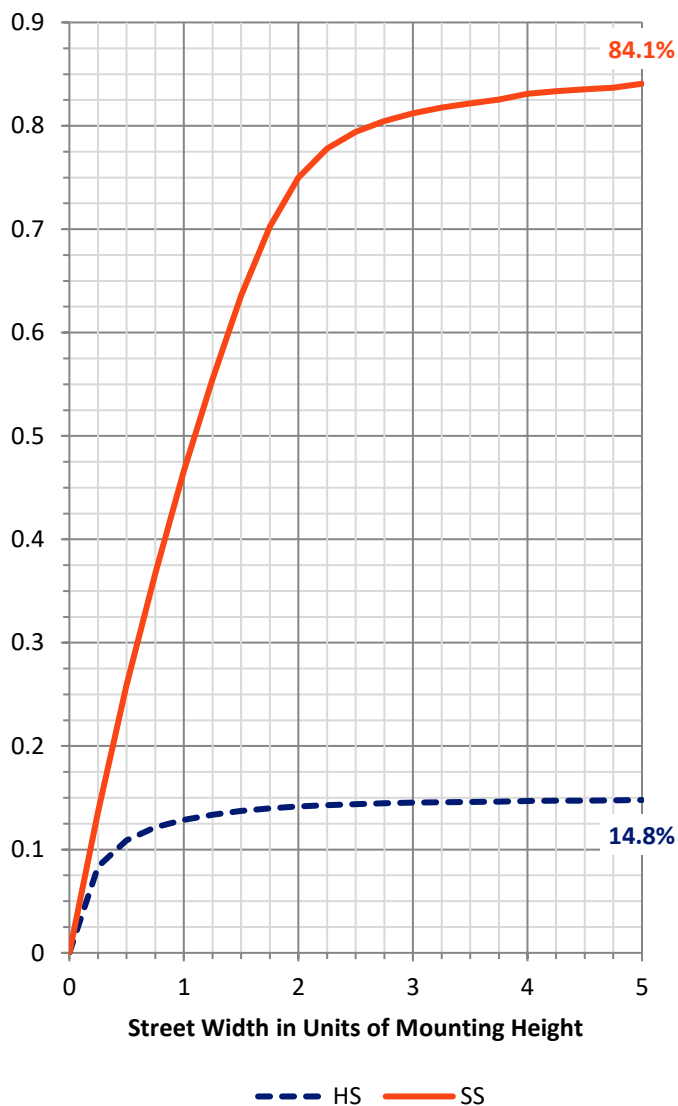
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1675.1	0.0	1675.1
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	9529.1	0.0	9529.1
	% Fixture	85.0	0.0	85.0
Total	Lumens	11204.2	0.0	11204.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.8	2.4
10°-20°	595.5	5.3
20°-30°	756.8	6.8
30°-40°	964.0	8.6
40°-50°	1367.1	12.2
50°-60°	2115.6	18.9
60°-70°	2880.1	25.7
70°-80°	1921.4	17.1
80°-90°	335.9	3.0
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°	11204.2	100.0
0°-180°	11204.2	100.0

Coefficient of Utilization

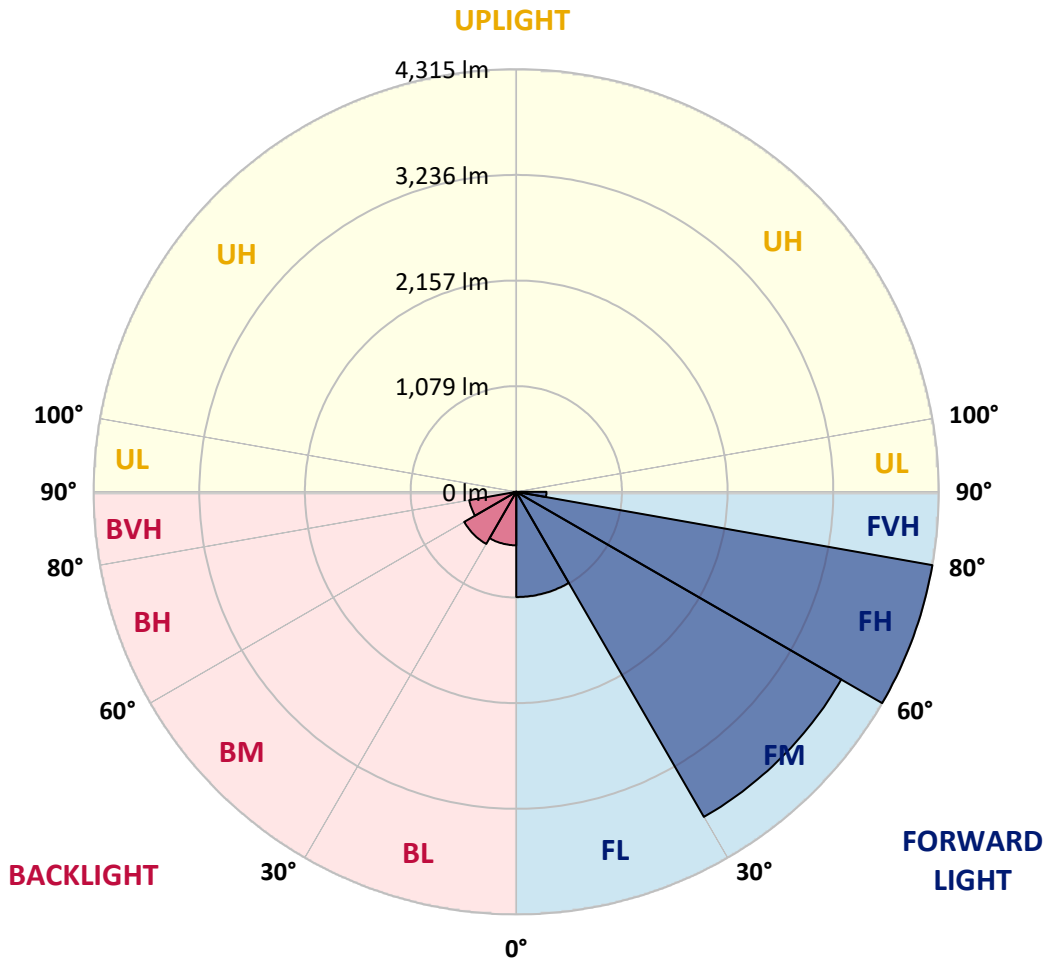


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1074.1	9.6			
FM (30°-60°)	3832.4	34.2			
FH (60°-80°)	4314.6	38.5			G2/5000
FVH (80°-90°)	308.0	2.7			G3/500
BL (0°-30°)	546.0	4.9	B2/1000		
BM (30°-60°)	614.3	5.5	B1/1000		
BH (60°-80°)	486.9	4.3	B1/500		G1/500
BVH (80°-90°)	27.9	0.2			G1/100
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°	58°	65°	75°	85°
0°	3104.3	3104.3	3104.3	3104.3	3104.3	3104.3	3104.3	3104.3	3104.3	3104.3	3104.3
2.5°	3186.6	3182.4	3183.9	3180.8	3173.4	3165.9	3155.0	3157.0	3141.8	3119.2	3091.1
5°	3126.6	3125.0	3136.7	3143.3	3148.8	3144.5	3141.3	3145.3	3123.0	3091.8	3043.0
7.5°	3000.5	2983.3	2998.2	3020.4	3041.5	3057.4	3078.6	3081.3	3067.2	3034.4	2970.5
10°	2821.4	2804.9	2826.8	2861.6	2903.7	2941.9	2984.5	2992.3	2995.0	2965.4	2887.7
12.5°	2635.6	2623.1	2645.0	2693.7	2763.6	2822.5	2890.4	2902.2	2926.3	2906.4	2811.2
15°	2469.3	2464.6	2491.2	2539.2	2619.6	2709.7	2807.7	2829.2	2870.1	2863.5	2751.5
17.5°	2325.7	2324.5	2344.8	2395.2	2484.1	2598.1	2725.4	2761.6	2822.5	2830.3	2702.4
20°	2218.8	2216.4	2230.5	2267.5	2359.3	2488.5	2636.3	2686.3	2774.1	2801.5	2651.5
22.5°	2161.4	2161.0	2161.4	2178.9	2253.9	2374.0	2549.7	2610.6	2726.9	2778.4	2595.4
25°	2151.6	2150.5	2141.8	2139.9	2182.5	2278.5	2463.8	2531.0	2682.0	2762.4	2541.9
27.5°	2177.0	2178.5	2167.3	2148.9	2157.5	2215.7	2389.3	2461.1	2646.1	2759.3	2504.8
30°	2229.7	2228.9	2219.1	2200.1	2183.2	2192.2	2336.2	2408.0	2621.9	2772.9	2479.4
32.5°	2287.8	2292.1	2290.1	2279.6	2254.6	2218.8	2320.2	2390.5	2614.9	2805.7	2468.5
35°	2357.7	2362.4	2376.4	2384.7	2355.3	2297.6	2354.6	2415.5	2635.2	2867.4	2486.1
37.5°	2424.0	2436.1	2475.6	2510.2	2485.4	2420.9	2445.9	2489.2	2698.0	2964.5	2533.4
40°	2500.6	2511.1	2575.4	2649.2	2645.3	2578.6	2593.0	2621.9	2808.9	3103.9	2618.7
42.5°	2575.8	2597.0	2690.2	2794.8	2824.9	2766.0	2789.0	2804.2	2965.0	3288.5	2767.8
45°	2676.1	2698.8	2828.3	2954.4	3024.7	2991.5	3028.2	3034.1	3161.2	3539.8	2984.5
47.5°	2828.0	2853.8	3004.7	3137.1	3244.4	3248.0	3308.5	3306.1	3406.3	3827.5	3257.3
50°	3064.5	3101.6	3225.3	3349.0	3479.3	3551.9	3632.7	3621.5	3700.3	4133.9	3571.5
52.5°	3374.4	3391.6	3483.3	3574.6	3736.5	3899.3	4015.3	4005.1	4033.6	4448.8	3928.2
55°	3695.6	3708.4	3746.3	3796.3	4014.0	4279.4	4524.5	4508.5	4436.3	4775.9	4280.6
57.5°	3984.3	4010.6	4036.7	4057.3	4293.5	4676.8	5045.6	5046.7	4873.5	5128.7	4644.7
60°	4029.2	4052.3	4225.2	4388.3	4771.6	5206.8	5603.3	5591.6	5325.8	5511.5	5050.7
62.5°	3561.7	3613.7	3902.4	4336.4	5232.1	6176.2	6314.8	6300.3	5866.7	5983.4	5523.3
65°	2552.4	2611.3	2959.9	3612.1	5008.8	7244.4	7598.8	7404.4	6604.3	6563.7	6076.7
67.5°	1472.5	1486.6	1637.6	2161.4	3813.8	7300.2	9557.6	9285.5	7749.8	7222.2	6347.6
70°	1088.9	1088.5	1124.4	1330.1	2063.8	5958.0	10489.2	10733.1	8955.8	7438.8	5964.7
71°	984.7	985.9	1026.0	1210.7	1634.5	4987.1	10291.3	10825.2	9273.5	7331.8	5687.6
72.5°	842.3	846.1	901.9	1085.8	1375.0	3439.1	9438.9	10272.6	9424.1	7068.0	5253.9
75°	638.9	647.9	725.1	915.3	1256.7	1744.2	6927.5	8203.0	8372.0	6236.7	3904.0
77.5°	455.9	466.0	553.4	769.6	1194.6	1314.5	4639.3	5983.4	6161.0	3996.8	1761.0
80°	288.0	300.1	366.1	612.4	1122.5	1248.1	2915.4	4021.8	3359.6	1279.0	448.0
82.5°	169.0	178.4	227.1	400.0	916.8	1202.0	1715.3	2229.3	1307.4	386.4	203.8
85°	98.0	102.3	141.7	254.9	665.8	1134.5	1260.2	1246.2	567.5	188.9	96.4
87.5°	45.7	50.7	83.9	133.1	369.6	822.3	996.0	860.6	352.8	88.6	45.3
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°	3104.3	3104.3	3104.3	3104.3	3104.3	3104.3	3104.3	3104.3	3104.3	3104.3	3104.3
2.5°	3077.4	3070.7	3043.0	3018.5	2992.7	2959.1	2922.1	2917.4	2894.7	2899.0	2891.2
5°	3016.5	2999.7	2933.0	2872.5	2801.1	2737.0	2667.6	2635.6	2589.5	2586.4	2574.7
7.5°	2929.4	2898.2	2794.8	2680.1	2565.3	2456.0	2347.9	2276.9	2204.3	2173.5	2170.8
10°	2831.5	2778.4	2626.2	2456.4	2291.0	2131.3	1976.8	1862.4	1759.4	1710.6	1708.7
12.5°	2738.6	2660.2	2451.3	2220.4	1994.0	1787.1	1575.2	1424.9	1295.7	1252.4	1234.1
15°	2659.8	2549.3	2281.2	1985.8	1711.0	1423.7	1182.5	1024.5	905.1	863.7	855.9
17.5°	2583.2	2441.2	2106.8	1748.9	1416.7	1101.0	859.4	741.9	678.3	661.5	661.1
20°	2507.1	2330.0	1924.4	1506.5	1132.3	823.5	660.8	608.1	586.6	584.7	581.5
22.5°	2420.9	2212.1	1732.8	1263.3	883.6	647.4	561.6	540.5	537.8	544.8	544.8
25°	2340.1	2095.0	1538.4	1025.3	687.3	540.2	501.5	497.2	504.6	517.1	518.3
27.5°	2264.8	1982.2	1348.8	813.7	550.7	475.7	459.7	464.8	478.1	492.5	492.9
30°	2202.8	1875.7	1164.6	641.2	465.2	427.7	425.0	435.1	449.6	461.0	463.7
32.5°	2154.8	1784.8	986.6	515.5	409.4	391.8	394.2	402.8	411.7	418.0	422.3
35°	2132.5	1706.7	822.3	434.8	373.9	364.1	367.2	371.9	375.9	380.5	384.0
37.5°	2136.4	1646.2	675.6	384.4	350.1	345.0	345.0	345.0	345.0	347.4	347.8
40°	2172.7	1611.4	556.1	352.5	334.0	328.6	324.3	320.4	317.3	318.8	318.1
42.5°	2265.6	1608.3	468.8	332.2	321.2	312.3	303.6	298.2	294.3	295.8	296.7
45°	2423.3	1647.4	409.8	317.7	309.1	295.4	284.5	278.6	275.9	281.0	281.8
47.5°	2627.4	1732.4	373.9	307.2	297.8	279.8	268.1	262.7	263.4	270.8	272.8
50°	2890.4	1870.6	356.7	300.5	290.0	266.6	254.5	249.8	252.1	262.7	265.0
52.5°	3179.2	2069.7	358.7	298.5	284.9	256.8	244.0	238.4	242.4	252.1	254.1
55°	3512.5	2308.9	391.1	301.3	277.5	250.5	235.3	226.0	229.1	238.0	239.6
57.5°	3882.9	2582.9	456.3	300.5	268.1	244.7	226.4	212.3	214.7	220.1	221.7
60°	4268.5	2913.8	557.3	302.9	263.9	237.7	214.3	196.7	196.0	200.6	201.4
62.5°	4731.4	3296.7	672.9	304.5	266.6	228.7	198.3	181.1	178.8	179.9	180.7
65°	5208.3	3573.8	629.5	298.2	275.1	221.3	184.2	165.9	161.6	160.8	161.2
67.5°	5223.1	3276.8	441.4	285.7	278.6	217.4	173.7	153.0	146.0	143.3	142.9
70°	4684.2	2662.1	343.8	272.4	264.6	211.2	163.9	142.4	131.9	127.7	127.2
71°	4421.1	2450.6	325.9	265.8	254.1	204.9	159.6	137.8	126.8	122.1	121.4
72.5°	4008.6	2196.9	304.0	255.2	233.8	188.9	151.4	131.1	119.8	114.3	113.2
75°	2876.8	1436.6	261.1	227.5	193.6	150.7	132.7	117.9	108.1	101.5	100.7
77.5°	1108.4	571.8	197.5	189.3	148.3	117.9	109.3	101.8	94.9	88.2	87.8
80°	342.7	255.6	144.0	142.4	107.4	87.8	85.1	83.1	80.4	73.4	71.8
82.5°	183.1	146.7	99.1	92.1	70.3	58.5	61.6	62.5	62.8	55.4	54.7
85°	87.5	77.7	55.8	52.3	41.0	32.8	37.9	41.0	41.3	33.9	31.7
87.5°	41.8	40.6	26.1	19.9	15.2	10.9	13.2	16.3	17.9	12.9	11.3
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)