

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: P387169

Luminaire Tested: GAW-SA2D-830-U-SL2

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P387169
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GAW-SA2D-830-U-SL2
Description: GALLEON WALL LUMINAIRE
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12605 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

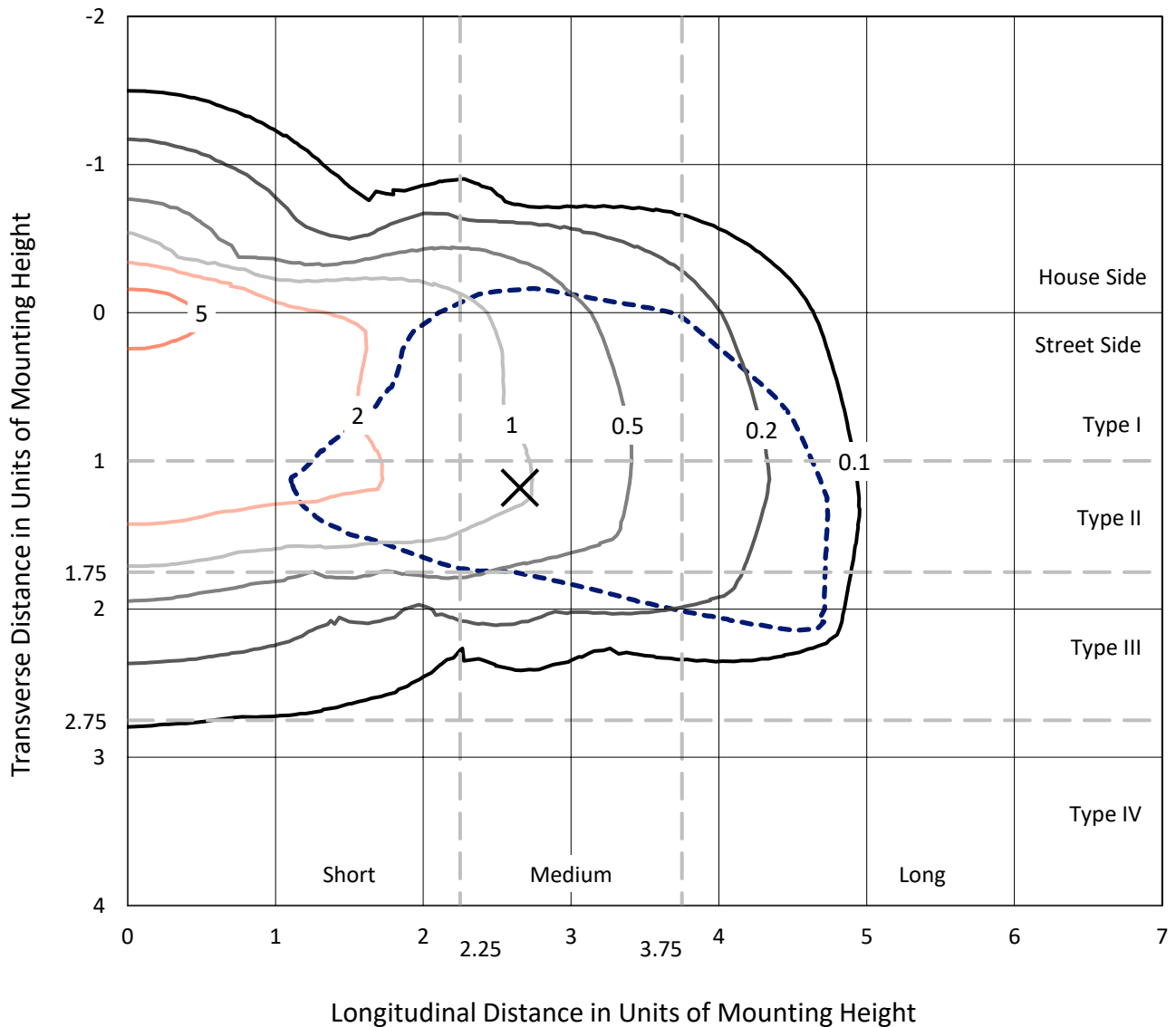
Input Watts (W): 128
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

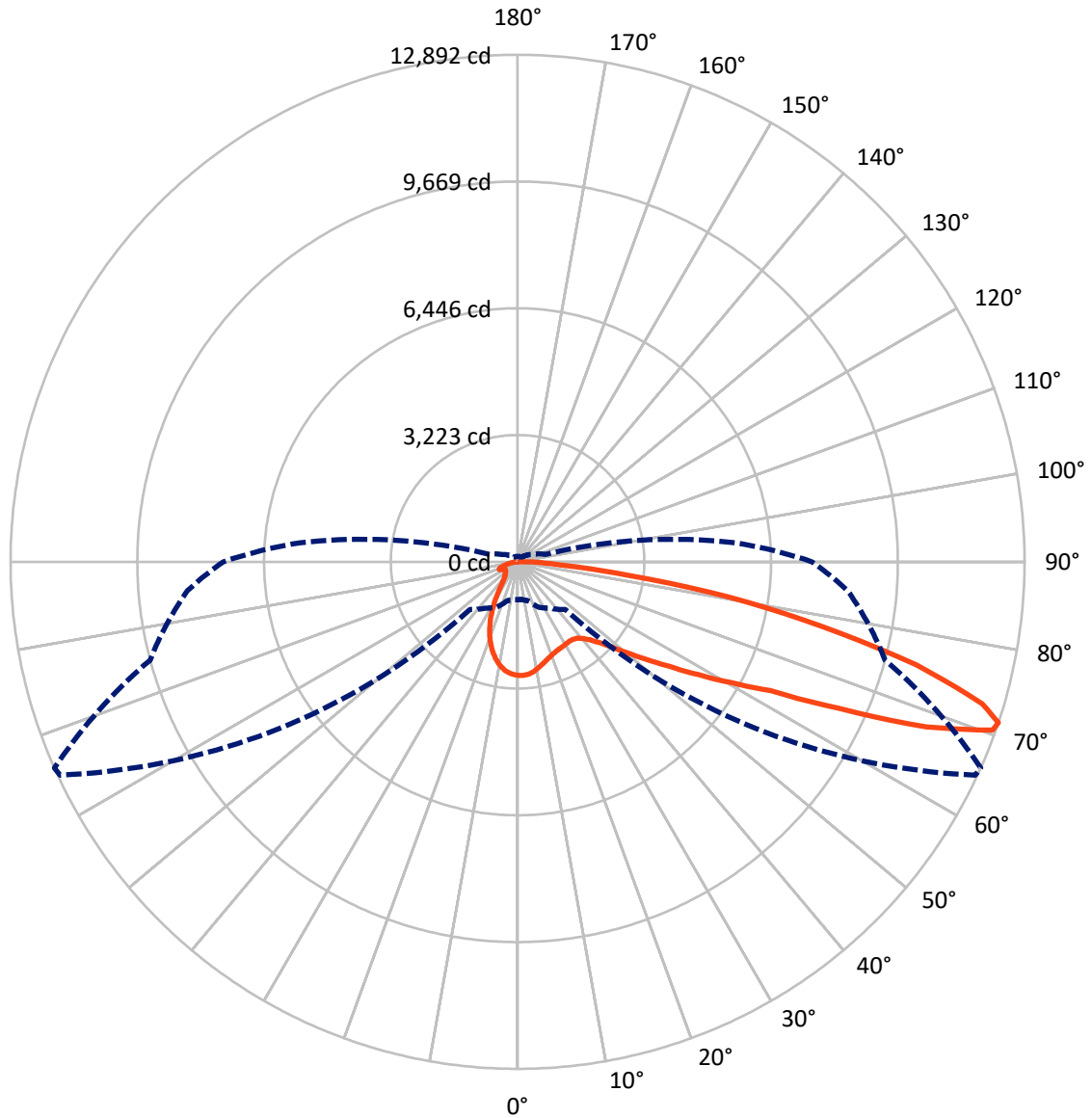
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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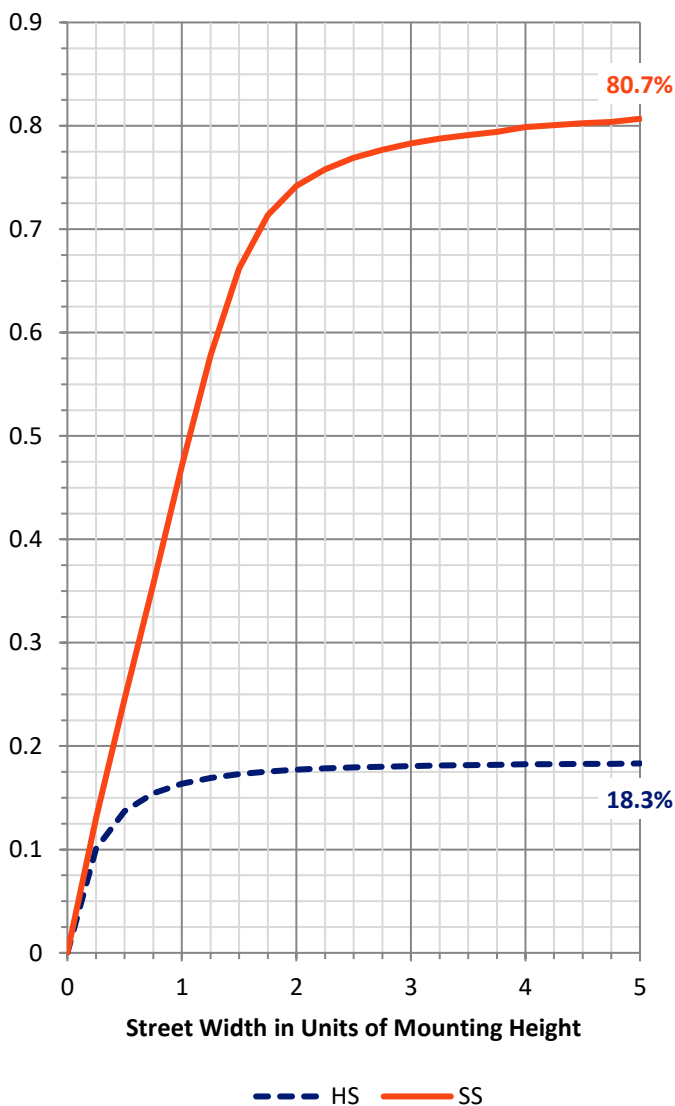
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2336.0	0.0	2336.0
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	10268.9	0.0	10268.9
	% Fixture	81.5	0.0	81.5
Total	Lumens	12605.0	0.0	12605.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.2	2.0
10°-20°	609.6	4.8
20°-30°	818.9	6.5
30°-40°	1077.2	8.5
40°-50°	1567.1	12.4
50°-60°	2447.9	19.4
60°-70°	3066.4	24.3
70°-80°	2339.0	18.6
80°-90°	424.7	3.4
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°	12605.0	100.0
0°-180°	12605.0	100.0

Coefficient of Utilization

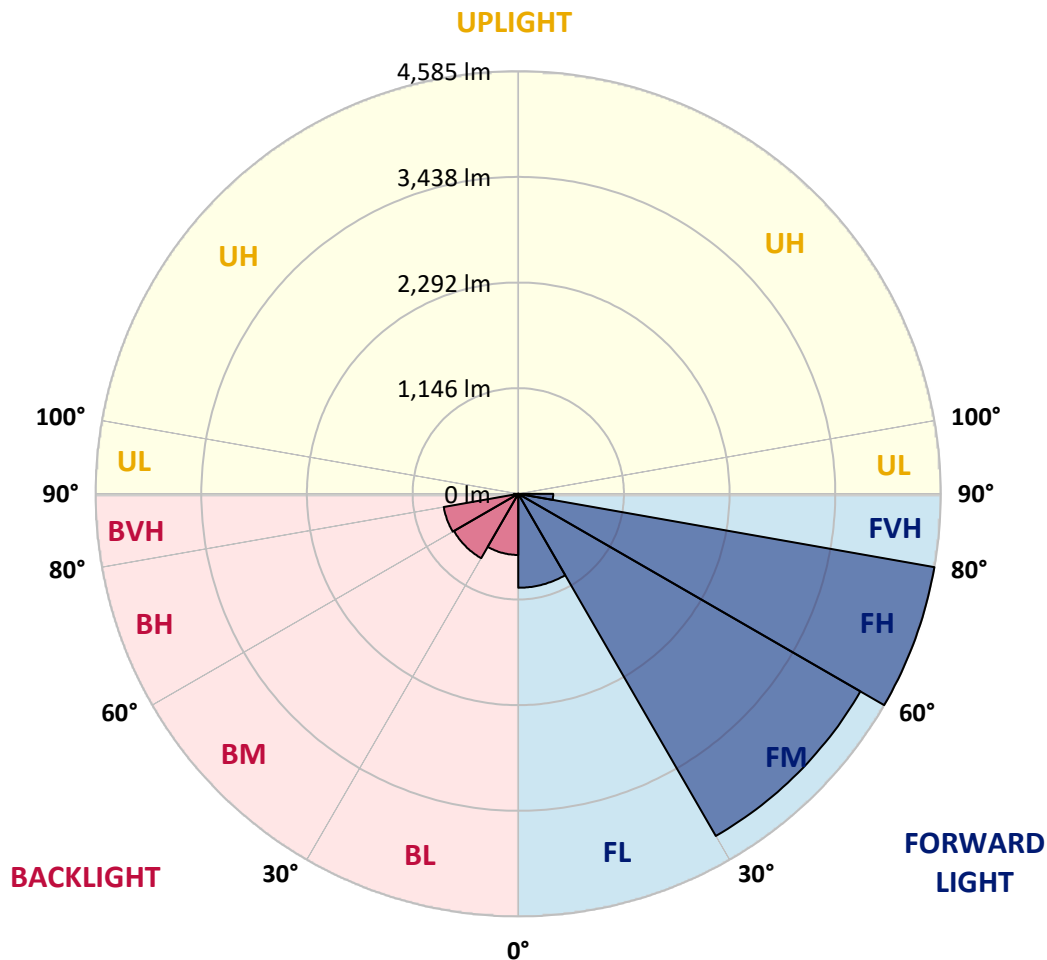


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1019.3	8.1			
FM (30°-60°)	4286.3	34.0			
FH (60°-80°)	4584.6	36.4			G2/5000
FVH (80°-90°)	378.8	3.0			G3/500
BL (0°-30°)	663.4	5.3	B2/1000		
BM (30°-60°)	805.9	6.4	B1/1000		
BH (60°-80°)	820.8	6.5	B2/1000		G2/1000
BVH (80°-90°)	46.0	0.4			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°	65°	66°	75°	85°
0°	2887.6	2887.6	2887.6	2887.6	2887.6	2887.6	2887.6	2887.6	2887.6	2887.6	2887.6
2.5°	2834.0	2829.7	2842.7	2856.2	2861.4	2870.2	2883.2	2890.6	2890.2	2891.5	2887.1
5°	2646.0	2640.4	2666.5	2687.8	2728.7	2774.8	2831.0	2871.0	2871.9	2894.5	2900.6
7.5°	2468.0	2464.1	2494.1	2528.5	2576.0	2646.5	2737.4	2823.6	2828.8	2890.2	2911.5
10°	2325.3	2324.4	2353.6	2391.0	2446.3	2525.0	2629.5	2755.7	2763.5	2869.3	2913.2
12.5°	2213.9	2215.6	2240.9	2283.5	2341.8	2424.1	2537.2	2679.5	2692.2	2836.2	2903.2
15°	2131.6	2138.6	2159.0	2202.1	2259.6	2343.1	2459.3	2609.0	2628.2	2799.2	2897.6
17.5°	2084.6	2092.4	2106.8	2142.5	2196.5	2277.0	2387.1	2551.2	2568.6	2770.9	2898.0
20°	2070.7	2077.2	2085.5	2107.2	2152.9	2226.1	2330.1	2498.9	2517.6	2748.3	2902.4
22.5°	2098.1	2102.9	2103.8	2102.0	2129.9	2189.5	2288.7	2460.6	2480.6	2733.5	2905.4
25°	2156.9	2163.4	2158.6	2142.5	2133.4	2169.9	2267.4	2435.4	2455.4	2722.6	2899.3
27.5°	2245.2	2246.1	2242.2	2221.3	2178.2	2172.1	2260.9	2420.6	2439.7	2710.0	2886.7
30°	2365.3	2371.0	2364.0	2335.7	2265.2	2206.9	2268.7	2406.2	2423.6	2693.9	2866.2
32.5°	2505.9	2519.8	2519.4	2489.8	2388.8	2284.8	2300.9	2397.5	2411.0	2676.9	2841.4
35°	2651.7	2670.8	2706.5	2693.9	2569.0	2408.0	2362.7	2411.5	2420.6	2674.7	2824.0
37.5°	2803.1	2822.3	2895.8	2929.8	2783.5	2584.2	2460.2	2460.6	2465.0	2701.3	2822.7
40°	2961.5	2982.0	3092.5	3180.9	3061.6	2807.5	2617.3	2563.3	2558.5	2766.6	2848.4
42.5°	3183.5	3201.8	3334.5	3447.2	3370.2	3093.4	2834.5	2721.7	2711.7	2894.5	2930.6
45°	3464.2	3479.9	3620.9	3741.4	3701.8	3419.8	3107.3	2939.8	2938.0	3107.8	3097.3
47.5°	3798.0	3810.2	3936.8	4053.5	4067.8	3795.4	3450.3	3276.2	3247.9	3400.2	3355.4
50°	4145.7	4159.2	4245.4	4370.7	4477.4	4298.0	3891.6	3688.3	3650.5	3786.3	3721.0
52.5°	4376.0	4393.8	4468.6	4627.5	4937.8	4849.0	4413.4	4187.9	4130.5	4254.1	4204.0
55°	4273.2	4313.3	4427.7	4682.3	5306.0	5690.7	5057.0	4770.7	4705.8	4808.5	4778.9
57.5°	3806.3	3861.1	4017.3	4410.3	5357.8	6432.3	6030.2	5457.0	5411.3	5381.7	5395.2
60°	2952.8	3005.5	3199.2	3711.4	4997.0	6973.7	7494.6	6303.0	6236.9	5957.0	5969.2
62.5°	2089.8	2063.3	2196.0	2570.7	4060.4	7037.2	9161.0	7434.5	7216.9	6564.6	6511.0
65°	1593.7	1587.6	1647.2	1766.5	2459.3	6276.9	10153.7	9336.4	8996.5	7279.2	7153.0
67.5°	1309.5	1298.6	1357.4	1531.0	1583.7	4049.5	10175.4	11542.8	11209.0	8168.7	7895.4
70°	1076.7	1064.5	1119.3	1343.5	1463.6	2053.7	8563.9	12835.0	12817.1	9295.0	8456.0
71°	965.3	956.6	1022.3	1271.2	1437.9	1711.6	7394.1	12838.4	12892.0	9676.3	8422.9
72.5°	786.0	789.0	858.7	1131.5	1418.8	1511.5	5434.4	12240.0	12353.2	10039.7	8122.2
75°	522.2	524.9	616.2	870.4	1375.7	1478.8	2986.8	10270.8	10478.8	9822.1	7411.5
77.5°	350.8	349.9	412.1	597.1	1198.5	1478.8	1751.3	7681.7	7910.2	7815.3	5713.8
80°	241.5	239.8	283.8	412.1	907.4	1496.7	1353.9	5383.4	5452.6	4220.6	2322.2
82.5°	148.0	149.3	185.4	291.1	617.6	1346.9	1278.2	2935.4	2860.1	1183.7	580.1
85°	84.9	84.4	118.4	197.1	396.5	1136.7	1246.4	1263.4	1158.9	356.4	209.8
87.5°	30.5	32.6	63.5	109.2	227.2	791.6	1057.5	657.2	592.3	161.0	94.9
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°	2887.6	2887.6	2887.6	2887.6	2887.6	2887.6	2887.6	2887.6	2887.6	2887.6	2887.6
2.5°	2884.1	2886.7	2883.6	2866.2	2851.4	2827.5	2814.0	2795.3	2789.6	2787.0	2794.0
5°	2895.0	2895.8	2870.2	2824.5	2773.1	2712.6	2669.1	2615.6	2590.3	2579.4	2586.4
7.5°	2905.0	2901.1	2844.9	2757.4	2662.6	2557.2	2463.7	2377.9	2327.9	2307.4	2309.2
10°	2906.3	2889.7	2799.7	2664.3	2517.2	2362.7	2219.1	2086.8	2003.2	1948.8	1965.4
12.5°	2892.8	2864.9	2733.1	2543.8	2339.6	2129.0	1934.9	1736.5	1617.2	1561.9	1563.7
15°	2882.3	2831.9	2651.2	2401.9	2127.7	1848.7	1583.7	1350.4	1223.4	1166.8	1140.2
17.5°	2873.6	2796.2	2556.4	2242.2	1877.5	1523.6	1205.1	997.0	927.4	910.9	903.9
20°	2861.4	2758.3	2450.6	2057.2	1592.4	1159.8	880.0	777.3	777.7	796.9	799.5
22.5°	2844.5	2715.2	2337.9	1849.6	1286.5	844.7	689.8	660.2	690.2	726.8	733.3
25°	2819.2	2664.3	2212.6	1620.3	980.9	649.3	589.3	588.0	624.5	662.8	668.5
27.5°	2783.5	2597.7	2073.3	1373.9	722.9	551.8	527.9	537.0	564.0	591.9	594.0
30°	2735.7	2520.3	1919.7	1114.1	566.6	491.3	488.7	497.0	513.5	533.1	534.9
32.5°	2683.0	2441.5	1755.6	862.6	485.2	458.7	461.3	465.2	473.1	480.9	482.6
35°	2635.1	2361.0	1587.6	655.4	446.5	437.4	435.6	434.8	435.6	433.0	433.5
37.5°	2604.2	2294.4	1412.7	521.8	424.3	418.7	413.4	406.9	399.5	395.2	396.0
40°	2592.9	2244.8	1235.5	450.9	406.0	402.1	392.1	378.2	369.5	366.9	366.9
42.5°	2623.4	2219.1	1064.5	415.2	390.8	384.3	367.7	351.6	345.1	344.7	344.2
45°	2716.5	2229.5	901.7	395.6	376.9	364.3	342.5	329.0	324.7	325.5	325.1
47.5°	2883.6	2295.3	762.5	382.5	363.0	346.4	322.0	311.2	305.9	305.9	306.4
50°	3167.8	2448.9	651.5	371.7	351.2	329.9	307.3	293.8	286.8	286.4	286.4
52.5°	3581.7	2723.9	582.3	362.5	338.2	315.1	292.5	275.5	267.2	265.5	264.6
55°	4100.5	3118.2	563.2	356.4	320.7	299.0	274.6	257.6	248.5	244.6	244.1
57.5°	4680.6	3597.8	601.0	349.0	302.9	279.8	255.0	238.9	229.4	224.6	224.1
60°	5267.7	4121.4	755.5	338.6	288.1	258.9	235.0	220.2	210.6	205.4	204.5
62.5°	5855.6	4673.2	1071.0	337.7	277.7	238.9	214.6	201.9	192.8	187.1	185.8
65°	6518.9	5277.3	1429.6	360.8	274.2	220.6	193.7	183.7	175.8	170.6	170.2
67.5°	7280.5	5959.2	1395.3	408.2	285.9	204.1	174.1	166.2	160.6	156.2	155.8
70°	7637.8	5852.6	867.4	441.7	302.5	188.0	155.4	149.7	145.4	142.3	141.0
71°	7488.1	5557.1	727.2	437.8	300.7	181.0	148.0	143.6	139.3	136.7	135.3
72.5°	7079.9	5067.9	606.7	407.3	281.1	168.4	138.4	134.0	130.1	127.1	126.2
75°	6353.1	4526.1	485.7	325.5	224.1	142.3	121.4	116.6	113.6	111.8	110.1
77.5°	4670.1	3230.1	375.6	257.2	164.9	116.2	103.6	100.1	97.0	94.4	93.1
80°	1789.1	1251.2	252.9	191.9	121.0	91.8	83.6	81.8	78.8	77.0	77.0
82.5°	481.8	373.8	134.9	116.2	80.9	67.0	64.0	63.1	60.5	57.0	57.4
85°	195.0	164.9	75.7	64.0	49.6	39.6	43.1	43.5	40.5	36.1	36.6
87.5°	85.7	70.1	42.2	28.3	21.8	15.2	19.6	19.6	17.8	14.8	13.5
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)