

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: P387141

Luminaire Tested: GAW-SA2D-827-U-SL2

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P387141
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-827-U-SL2
Description: GALLEON WALL LUMINAIRE
(2) 80 CRI, 2700K, 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: 11661 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

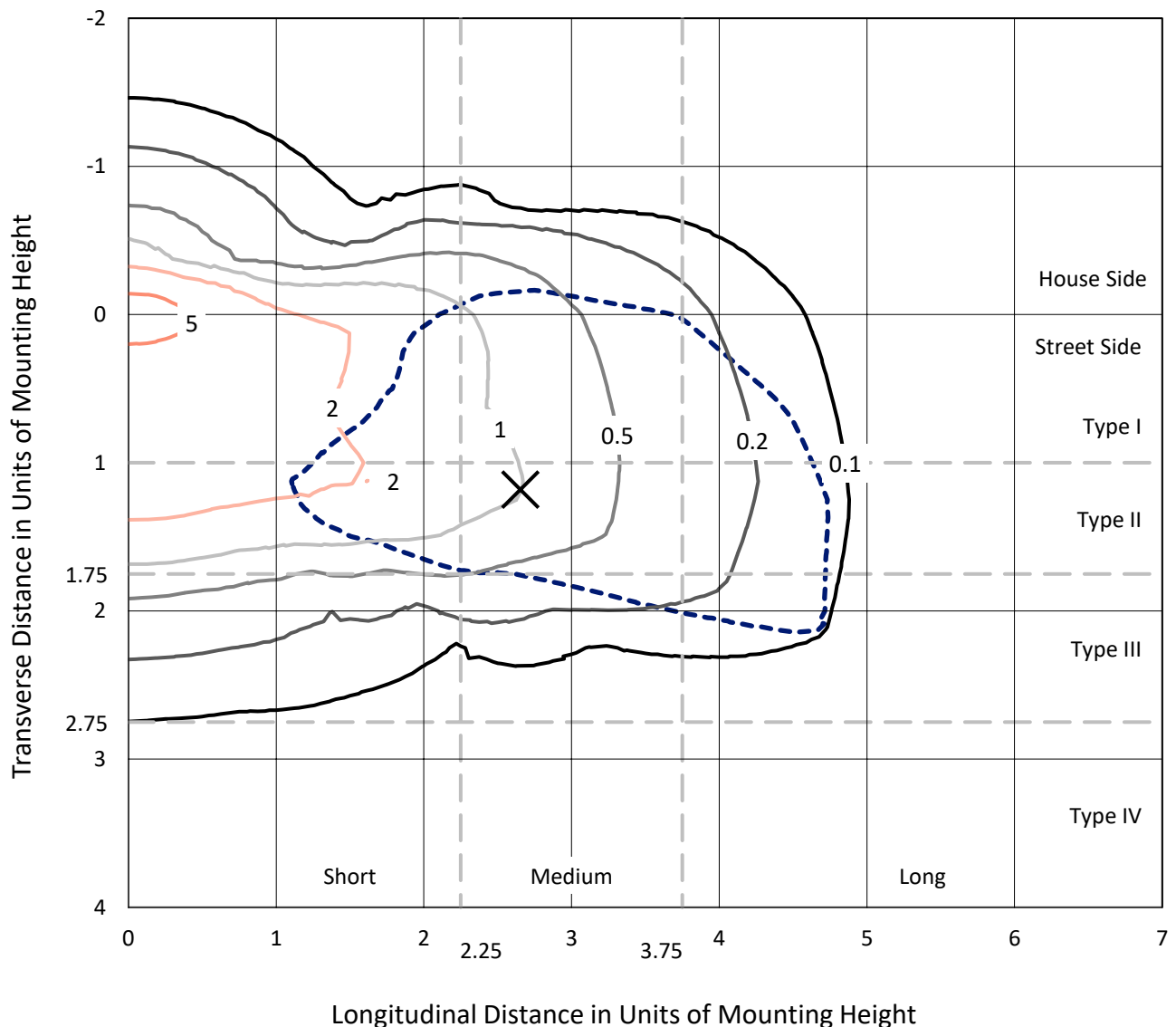
Input Watts (W): 128
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

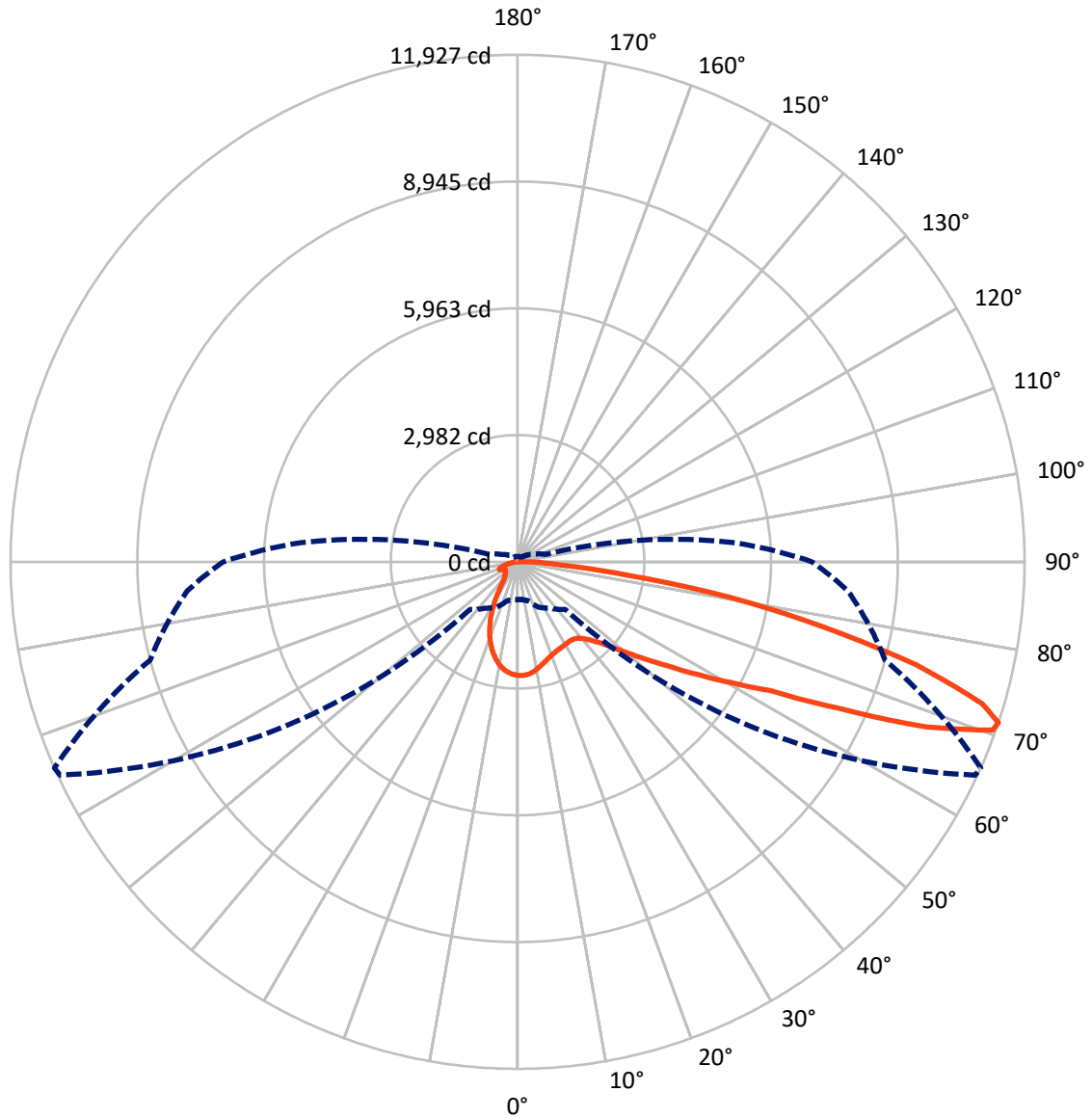
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.7 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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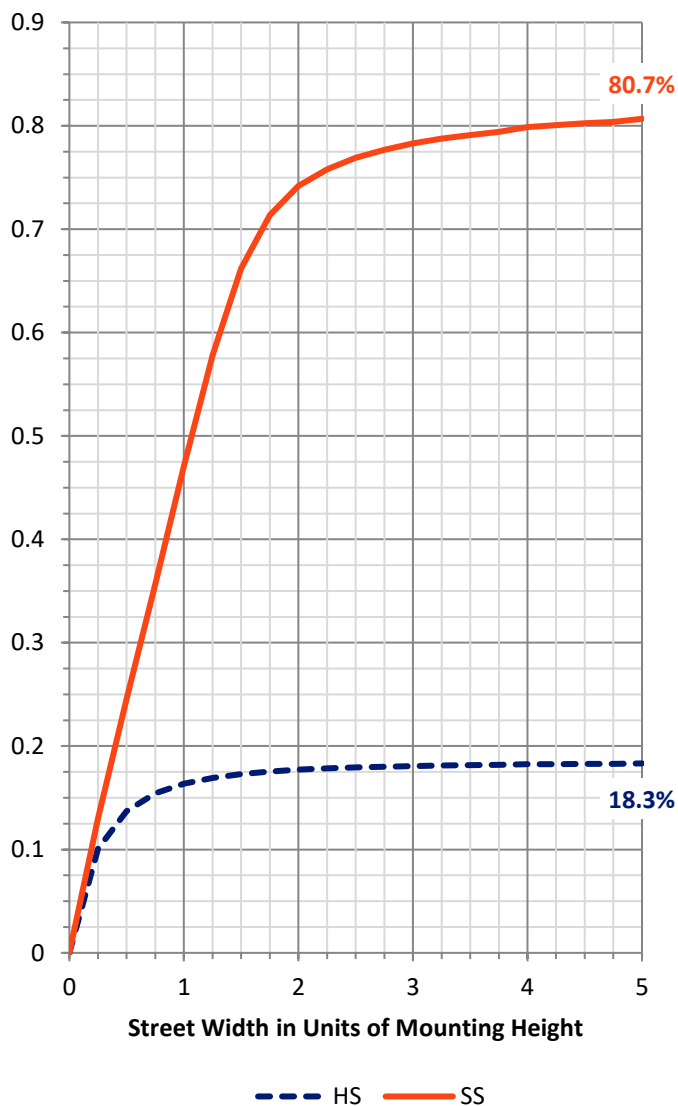
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2161.1	0.0	2161.1
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	9499.9	0.0	9499.9
	% Fixture	81.5	0.0	81.5
Total	Lumens	11661.0	0.0	11661.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.1	2.0
10°-20°	564.0	4.8
20°-30°	757.5	6.5
30°-40°	996.5	8.5
40°-50°	1449.7	12.4
50°-60°	2264.6	19.4
60°-70°	2836.8	24.3
70°-80°	2163.8	18.6
80°-90°	392.9	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°	11661.0	100.0
0°-180°	11661.0	100.0

Coefficient of Utilization

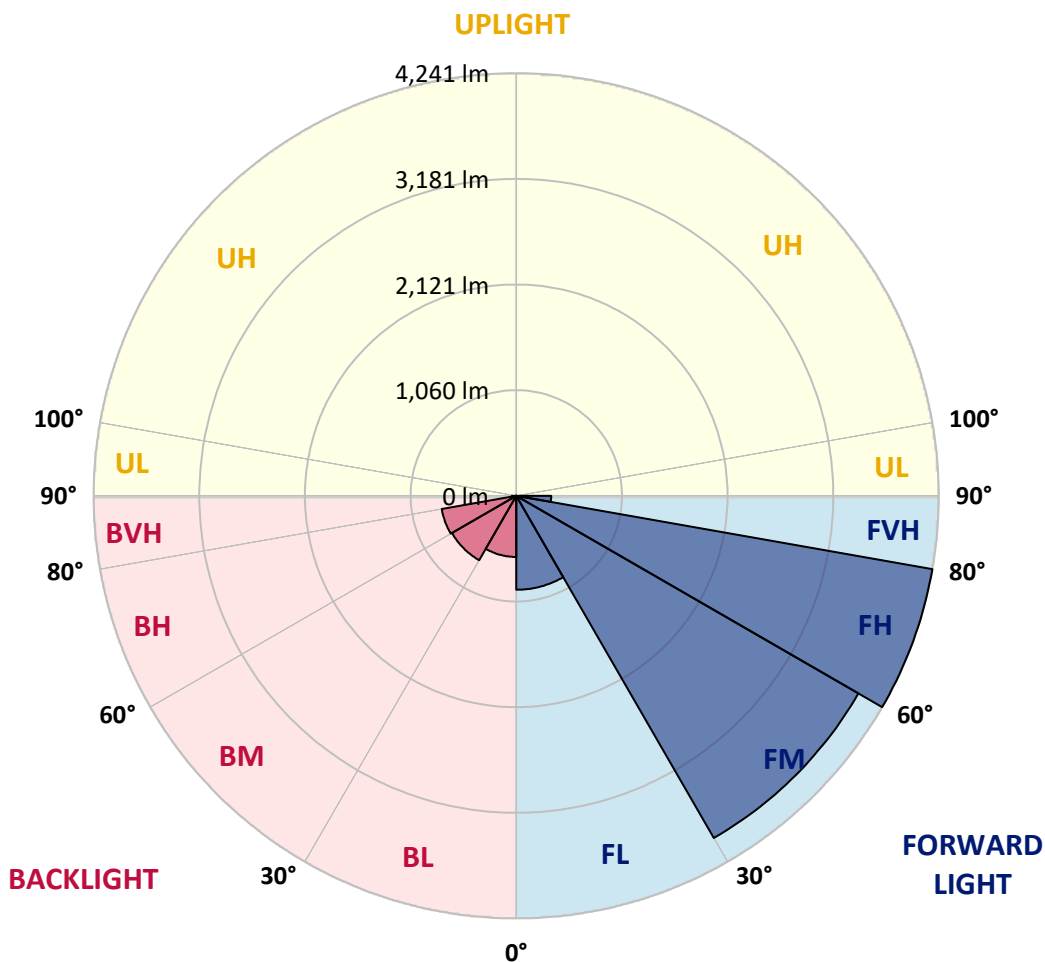


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	943.0	8.1			
FM (30°-60°)	3965.3	34.0			
FH (60°-80°)	4241.2	36.4			G2/5000
FVH (80°-90°)	350.4	3.0			G3/500
BL (0°-30°)	613.7	5.3	B2/1000		
BM (30°-60°)	745.5	6.4	B1/1000		
BH (60°-80°)	759.4	6.5	B2/1000		G2/1000
BVH (80°-90°)	42.5	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°	2671.3	2671.3	2671.3	2671.3	2671.3	2671.3	2671.3	2671.3	2671.3	2671.3	2671.3
2.5°	2621.8	2617.8	2629.8	2642.3	2647.2	2655.2	2667.3	2674.1	2673.7	2674.9	2670.9
5°	2447.9	2442.6	2466.8	2486.5	2524.4	2567.0	2619.0	2656.0	2656.8	2677.8	2683.4
7.5°	2283.2	2279.6	2307.4	2339.2	2383.0	2448.3	2532.4	2612.1	2617.0	2673.7	2693.5
10°	2151.1	2150.3	2177.3	2211.9	2263.1	2335.9	2432.6	2549.3	2556.6	2654.4	2695.1
12.5°	2048.1	2049.7	2073.0	2112.5	2166.4	2242.5	2347.2	2478.9	2490.5	2623.8	2685.8
15°	1972.0	1978.4	1997.3	2037.2	2090.3	2167.6	2275.1	2413.6	2431.4	2589.6	2680.6
17.5°	1928.5	1935.7	1949.0	1982.0	2032.0	2106.4	2208.3	2360.1	2376.2	2563.4	2681.0
20°	1915.6	1921.7	1929.3	1949.4	1991.7	2059.3	2155.6	2311.8	2329.1	2542.5	2685.0
22.5°	1941.0	1945.4	1946.2	1944.6	1970.4	2025.5	2117.3	2276.4	2294.9	2528.8	2687.8
25°	1995.3	2001.4	1996.9	1982.0	1973.6	2007.4	2097.6	2253.0	2271.5	2518.7	2682.2
27.5°	2077.1	2077.9	2074.2	2054.9	2015.1	2009.4	2091.6	2239.3	2257.0	2507.0	2670.5
30°	2188.2	2193.4	2187.0	2160.8	2095.6	2041.6	2098.8	2226.0	2242.1	2492.1	2651.6
32.5°	2318.2	2331.1	2330.7	2303.3	2209.9	2113.7	2128.6	2218.0	2230.5	2476.4	2628.6
35°	2453.1	2470.8	2503.8	2492.1	2376.6	2227.6	2185.8	2230.9	2239.3	2474.4	2612.5
37.5°	2593.2	2610.9	2679.0	2710.4	2575.1	2390.7	2275.9	2276.4	2280.4	2499.0	2611.3
40°	2739.8	2758.7	2860.9	2942.7	2832.4	2597.2	2421.3	2371.4	2366.9	2559.4	2635.1
42.5°	2945.1	2962.0	3084.8	3189.1	3117.8	2861.7	2622.2	2517.9	2508.7	2677.8	2711.2
45°	3204.8	3219.3	3349.7	3461.2	3424.6	3163.7	2874.6	2719.6	2718.0	2875.0	2865.4
47.5°	3513.6	3524.8	3642.0	3749.9	3763.2	3511.2	3191.9	3030.8	3004.7	3145.6	3104.1
50°	3835.3	3847.7	3927.4	4043.4	4142.0	3976.2	3600.1	3412.1	3377.1	3502.7	3442.3
52.5°	4048.2	4064.7	4134.0	4280.9	4568.0	4485.9	4082.9	3874.3	3821.2	3935.5	3889.2
55°	3953.2	3990.3	4096.1	4331.7	4908.6	5264.5	4678.3	4413.4	4353.4	4448.4	4421.0
57.5°	3521.2	3571.9	3716.5	4080.0	4956.5	5950.6	5578.5	5048.3	5006.0	4978.7	4991.1
60°	2731.7	2780.4	2959.6	3433.4	4622.8	6451.4	6933.3	5831.0	5769.8	5510.9	5522.2
62.5°	1933.3	1908.8	2031.6	2378.2	3756.3	6510.2	8474.9	6877.8	6676.5	6073.0	6023.4
65°	1474.4	1468.7	1523.9	1634.2	2275.1	5806.8	9393.3	8637.2	8322.7	6734.0	6617.3
67.5°	1211.4	1201.4	1255.7	1416.4	1465.1	3746.3	9413.4	10678.4	10369.6	7557.0	7304.1
70°	996.1	984.8	1035.5	1242.9	1354.0	1899.9	7922.5	11873.7	11857.2	8598.9	7822.7
71°	893.0	884.9	945.7	1176.0	1330.2	1583.5	6840.3	11877.0	11926.5	8951.6	7792.1
72.5°	727.1	729.9	794.3	1046.8	1312.5	1398.3	5027.4	11323.4	11428.1	9287.8	7513.9
75°	483.1	485.5	570.1	805.2	1272.6	1368.1	2763.1	9501.6	9694.0	9086.5	6856.4
77.5°	324.5	323.7	381.3	552.4	1108.8	1368.1	1620.1	7106.4	7317.8	7230.0	5285.9
80°	223.4	221.8	262.5	381.3	839.4	1384.6	1252.5	4980.3	5044.3	3904.5	2148.3
82.5°	136.9	138.1	171.5	269.3	571.3	1246.1	1182.5	2715.6	2645.9	1095.1	536.7
85°	78.5	78.1	109.5	182.4	366.8	1051.6	1153.1	1168.8	1072.1	329.7	194.1
87.5°	28.2	30.2	58.8	101.1	210.2	732.3	978.3	607.9	548.0	149.0	87.8
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°	2671.3	2671.3	2671.3	2671.3	2671.3	2671.3	2671.3	2671.3	2671.3	2671.3	2671.3
2.5°	2668.1	2670.5	2667.7	2651.6	2637.9	2615.7	2603.3	2586.0	2580.7	2578.3	2584.7
5°	2678.2	2679.0	2655.2	2612.9	2565.4	2509.5	2469.2	2419.7	2396.3	2386.3	2392.7
7.5°	2687.4	2683.8	2631.9	2550.9	2463.2	2365.7	2279.2	2199.9	2153.6	2134.6	2136.2
10°	2688.6	2673.3	2590.0	2464.8	2328.7	2185.8	2052.9	1930.5	1853.2	1802.9	1818.2
12.5°	2676.1	2650.4	2528.4	2353.2	2164.4	1969.6	1790.0	1606.4	1496.1	1445.0	1446.6
15°	2666.5	2619.8	2452.7	2222.0	1968.4	1710.3	1465.1	1249.3	1131.7	1079.4	1054.8
17.5°	2658.4	2586.8	2364.9	2074.2	1736.9	1409.5	1114.8	922.4	858.0	842.7	836.2
20°	2647.2	2551.7	2267.1	1903.1	1473.1	1073.0	814.1	719.1	719.5	737.2	739.6
22.5°	2631.5	2511.9	2162.8	1711.1	1190.1	781.5	638.1	610.8	638.5	672.4	678.4
25°	2608.1	2464.8	2046.9	1498.9	907.5	600.7	545.1	543.9	577.7	613.2	618.4
27.5°	2575.1	2403.2	1918.0	1271.0	668.7	510.5	488.4	496.8	521.8	547.5	549.6
30°	2530.8	2331.5	1775.9	1030.7	524.2	454.5	452.1	459.8	475.1	493.2	494.8
32.5°	2482.1	2258.6	1624.1	798.0	448.9	424.3	426.8	430.4	437.6	444.9	446.5
35°	2437.8	2184.2	1468.7	606.3	413.1	404.6	403.0	402.2	403.0	400.6	401.0
37.5°	2409.2	2122.6	1306.9	482.7	392.5	387.3	382.5	376.4	369.6	365.6	366.4
40°	2398.7	2076.7	1143.0	417.1	375.6	372.0	362.8	349.9	341.8	339.4	339.4
42.5°	2426.9	2052.9	984.8	384.1	361.5	355.5	340.2	325.3	319.3	318.9	318.5
45°	2513.1	2062.6	834.2	366.0	348.7	337.0	316.9	304.4	300.3	301.2	300.7
47.5°	2667.7	2123.4	705.4	353.9	335.8	320.5	297.9	287.9	283.0	283.0	283.4
50°	2930.6	2265.5	602.7	343.8	324.9	305.2	284.2	271.8	265.3	264.9	264.9
52.5°	3313.5	2519.9	538.7	335.4	312.8	291.5	270.6	254.9	247.2	245.6	244.8
55°	3793.4	2884.7	521.0	329.7	296.7	276.6	254.0	238.3	229.9	226.3	225.9
57.5°	4330.1	3328.4	556.0	322.9	280.2	258.9	235.9	221.0	212.2	207.7	207.3
60°	4873.2	3812.7	698.9	313.2	266.5	239.6	217.4	203.7	194.9	190.0	189.2
62.5°	5417.1	4323.2	990.8	312.4	256.9	221.0	198.5	186.8	178.4	173.1	171.9
65°	6030.7	4882.0	1322.6	333.8	253.6	204.1	179.2	169.9	162.7	157.8	157.4
67.5°	6735.2	5512.9	1290.8	377.6	264.5	188.8	161.0	153.8	148.6	144.5	144.1
70°	7065.8	5414.3	802.4	408.6	279.8	173.9	143.7	138.5	134.5	131.7	130.4
71°	6927.3	5140.9	672.8	405.0	278.2	167.5	136.9	132.9	128.8	126.4	125.2
72.5°	6549.6	4688.4	561.2	376.8	260.1	155.8	128.0	124.0	120.4	117.6	116.8
75°	5877.3	4187.1	449.3	301.2	207.3	131.7	112.3	107.9	105.1	103.5	101.9
77.5°	4320.4	2988.2	347.5	237.9	152.6	107.5	95.8	92.6	89.8	87.4	86.2
80°	1655.1	1157.5	233.9	177.6	111.9	85.0	77.3	75.7	72.9	71.3	71.3
82.5°	445.7	345.8	124.8	107.5	74.9	62.0	59.2	58.4	56.0	52.7	53.1
85°	180.4	152.6	70.1	59.2	45.9	36.6	39.9	40.3	37.4	33.4	33.8
87.5°	79.3	64.8	39.1	26.2	20.1	14.1	18.1	18.1	16.5	13.7	12.5
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)