

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: P386945

Luminaire Tested: GAW-SA2C-830-U-SL2

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386945
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-SA2C-830-U-SL2
Description: GALLEON WALL LUMINAIRE
(2) 80 CRI, 3000K, 1050mA 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: 11491 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

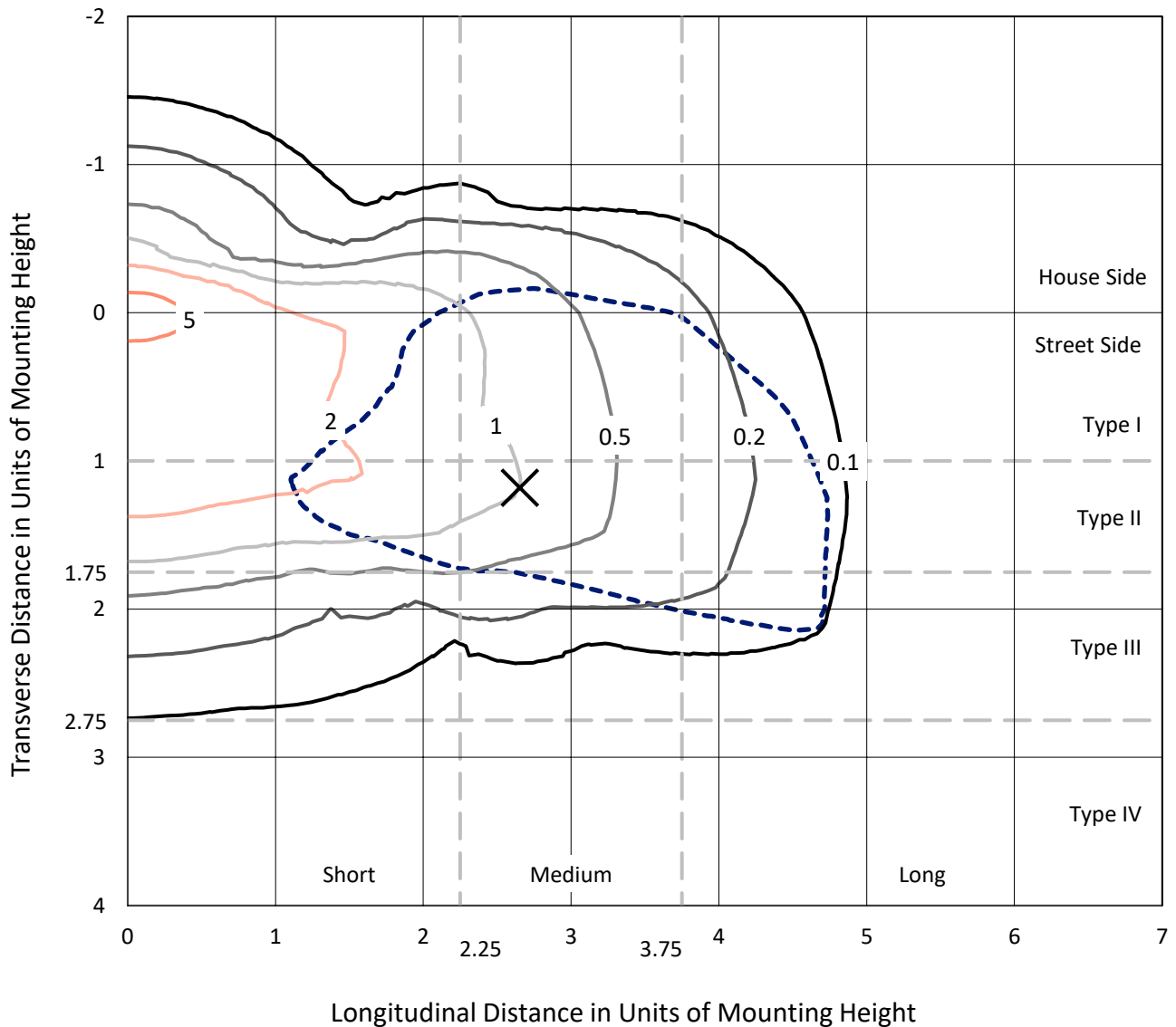
Input Watts (W): 111
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

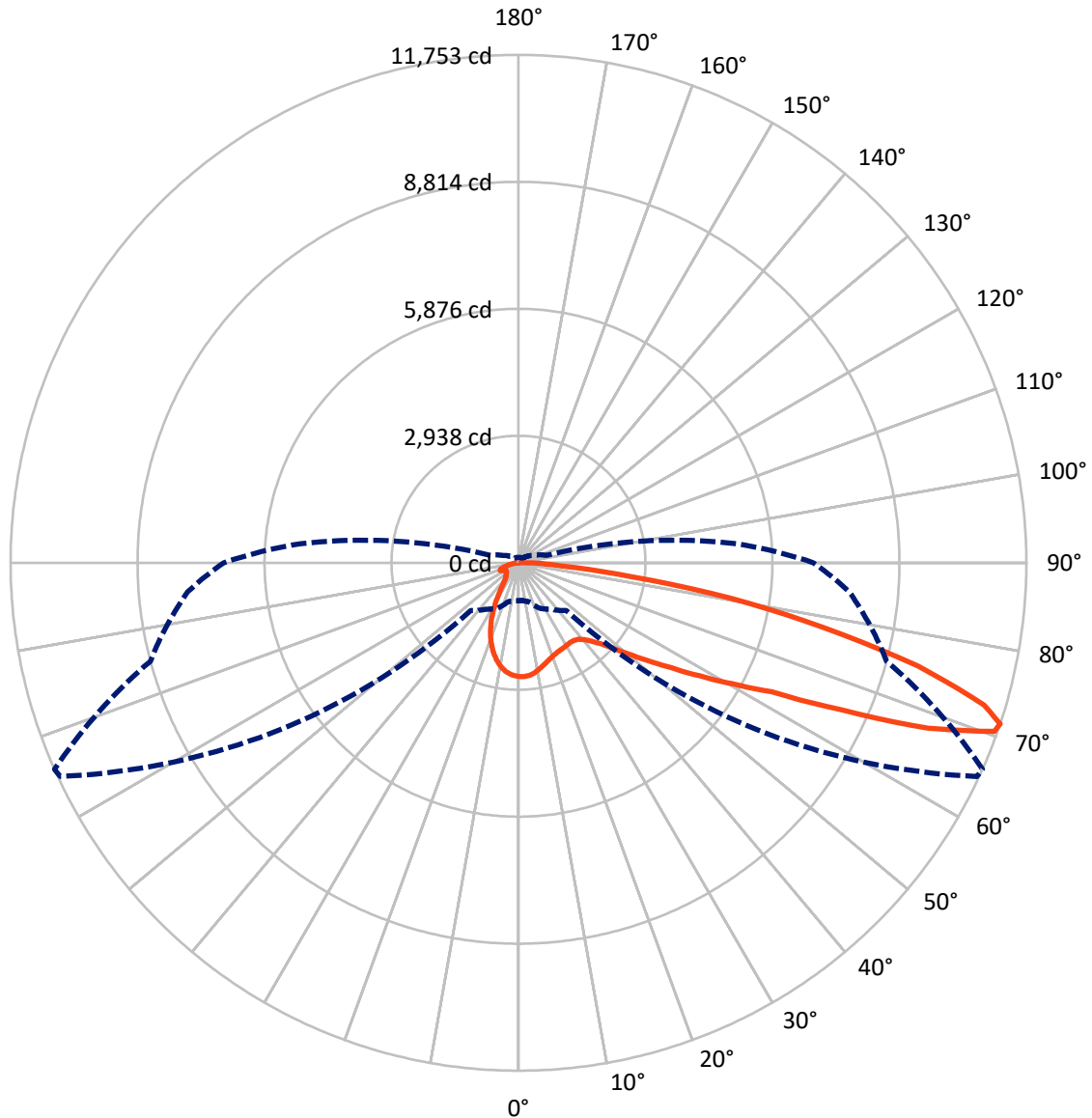
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.6 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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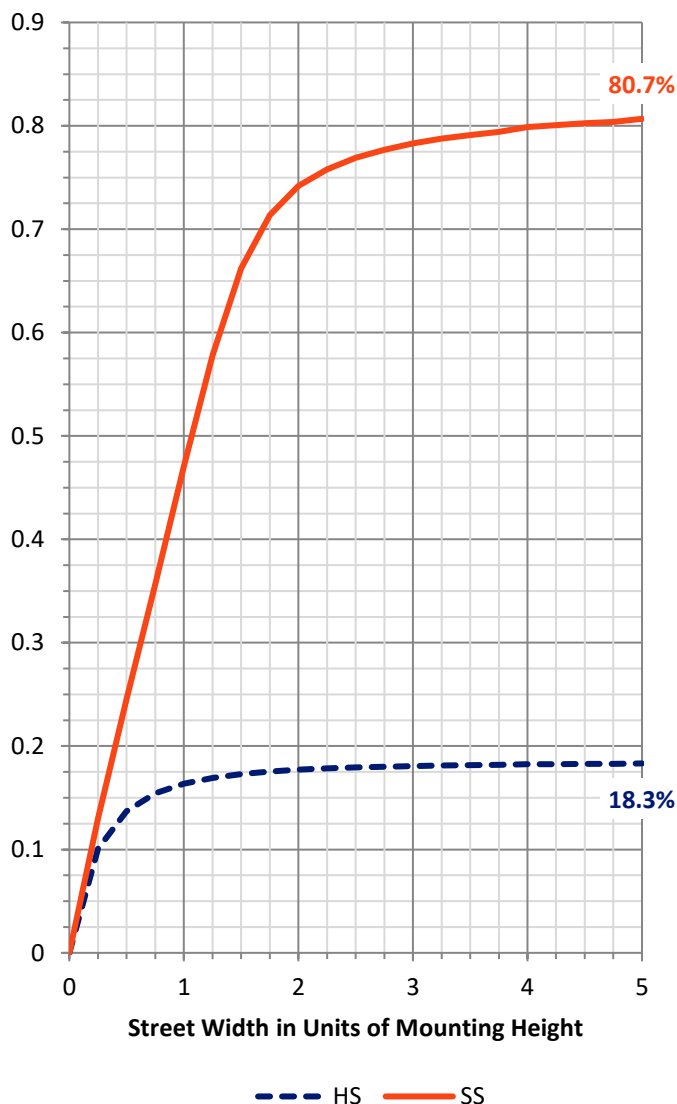
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2129.6	0.0	2129.6
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	9361.4	0.0	9361.4
	% Fixture	81.5	0.0	81.5
Total	Lumens	11491.0	0.0	11491.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.7	2.0
10°-20°	555.7	4.8
20°-30°	746.5	6.5
30°-40°	982.0	8.5
40°-50°	1428.6	12.4
50°-60°	2231.6	19.4
60°-70°	2795.4	24.3
70°-80°	2132.3	18.6
80°-90°	387.2	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°	11491.0	100.0
0°-180°	11491.0	100.0

Coefficient of Utilization



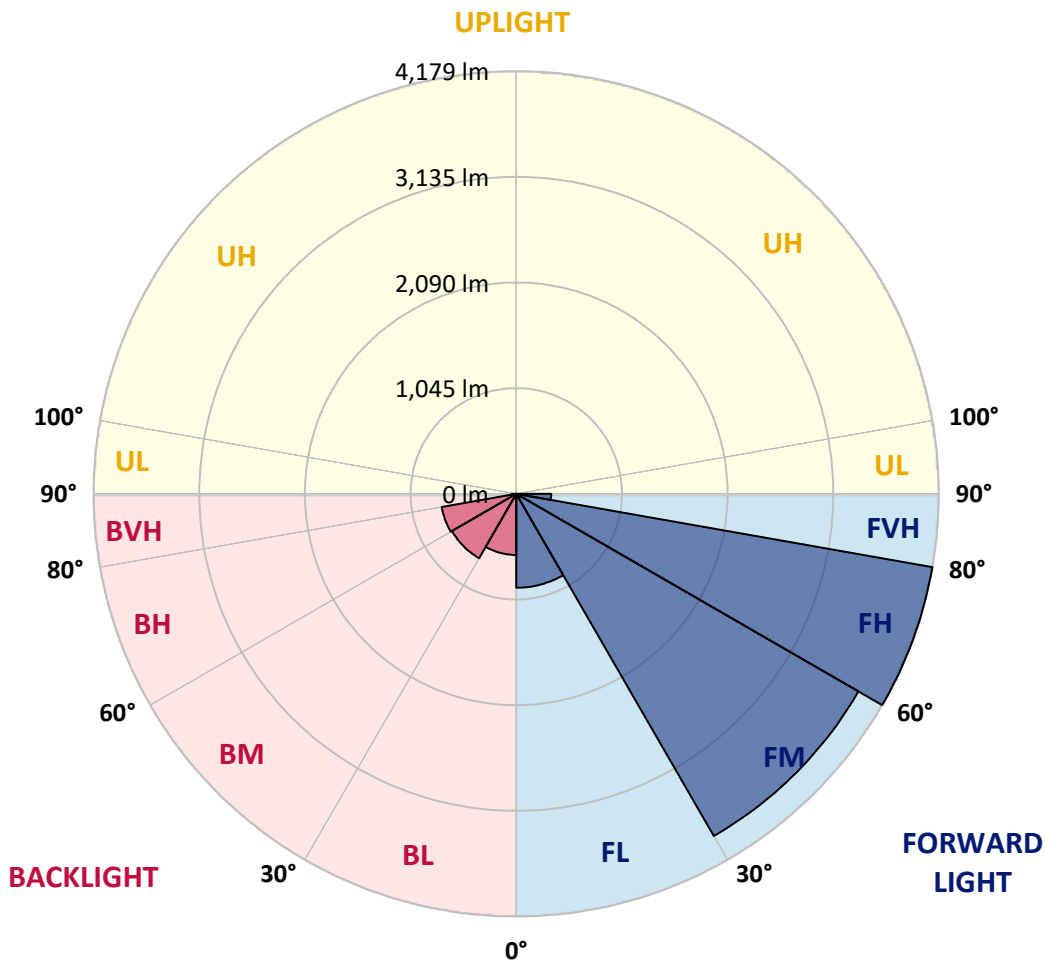
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	929.2	8.1			
FM (30°-60°)	3907.5	34.0			
FH (60°-80°)	4179.4	36.4			G2/5000
FVH (80°-90°)	345.3	3.0			G3/500
BL (0°-30°)	604.7	5.3	B2/1000		
BM (30°-60°)	734.6	6.4	B1/1000		
BH (60°-80°)	748.3	6.5	B2/1000		G2/1000
BVH (80°-90°)	41.9	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°	2632.4	2632.4	2632.4	2632.4	2632.4	2632.4	2632.4	2632.4	2632.4	2632.4	2632.4
2.5°	2583.6	2579.6	2591.5	2603.8	2608.6	2616.5	2628.4	2635.1	2634.7	2635.9	2632.0
5°	2412.2	2407.0	2430.8	2450.3	2487.6	2529.6	2580.8	2617.3	2618.1	2638.7	2644.3
7.5°	2249.9	2246.3	2273.7	2305.1	2348.3	2412.6	2495.5	2574.0	2578.8	2634.7	2654.2
10°	2119.8	2119.0	2145.6	2179.7	2230.1	2301.9	2397.1	2512.2	2519.3	2615.7	2655.8
12.5°	2018.2	2019.8	2042.8	2081.7	2134.9	2209.8	2313.0	2442.7	2454.2	2585.6	2646.6
15°	1943.2	1949.6	1968.2	2007.5	2059.9	2136.0	2242.0	2378.5	2395.9	2551.8	2641.5
17.5°	1900.4	1907.5	1920.6	1953.1	2002.3	2075.7	2176.1	2325.7	2341.6	2526.0	2641.9
20°	1887.7	1893.6	1901.2	1921.0	1962.7	2029.3	2124.1	2278.1	2295.1	2505.4	2645.9
22.5°	1912.7	1917.0	1917.8	1916.3	1941.6	1996.0	2086.5	2243.2	2261.4	2491.9	2648.6
25°	1966.2	1972.2	1967.8	1953.1	1944.8	1978.1	2067.0	2220.2	2238.4	2482.0	2643.1
27.5°	2046.8	2047.6	2044.0	2025.0	1985.7	1980.1	2061.1	2206.7	2224.1	2470.5	2631.6
30°	2156.3	2161.4	2155.1	2129.3	2065.0	2011.9	2068.2	2193.6	2209.4	2455.8	2612.9
32.5°	2284.4	2297.1	2296.7	2269.7	2177.7	2082.9	2097.6	2185.6	2197.9	2440.3	2590.3
35°	2417.3	2434.8	2467.3	2455.8	2342.0	2195.2	2153.9	2198.3	2206.7	2438.4	2574.4
37.5°	2555.4	2572.9	2639.9	2670.8	2537.5	2355.8	2242.8	2243.2	2247.1	2462.6	2573.3
40°	2699.8	2718.5	2819.2	2899.8	2791.1	2559.4	2386.0	2336.8	2332.4	2522.1	2596.7
42.5°	2902.1	2918.8	3039.8	3142.6	3072.3	2820.0	2584.0	2481.2	2472.1	2638.7	2671.6
45°	3158.0	3172.3	3300.9	3410.8	3374.7	3117.6	2832.7	2680.0	2678.4	2833.1	2823.6
47.5°	3462.3	3473.5	3588.9	3695.2	3708.3	3460.0	3145.3	2986.7	2960.9	3099.7	3058.9
50°	3779.3	3791.6	3870.2	3984.5	4081.7	3918.2	3547.6	3362.4	3327.8	3451.6	3392.1
52.5°	3989.2	4005.5	4073.7	4218.5	4501.4	4420.5	4023.3	3817.8	3765.5	3878.1	3832.5
55°	3895.6	3932.1	4036.4	4268.5	4837.0	5187.8	4610.1	4349.1	4289.9	4383.6	4356.6
57.5°	3469.9	3519.9	3662.3	4020.6	4884.3	5863.8	5497.2	4974.7	4933.1	4906.1	4918.4
60°	2691.9	2739.9	2916.4	3383.4	4555.4	6357.4	6832.2	5746.0	5685.7	5430.6	5441.7
62.5°	1905.1	1880.9	2001.9	2343.5	3701.6	6415.3	8351.4	6777.5	6579.1	5984.4	5935.6
65°	1452.9	1447.3	1501.7	1610.4	2242.0	5722.2	9256.3	8511.2	8201.4	6635.9	6520.8
67.5°	1193.8	1183.9	1237.4	1395.7	1443.7	3691.7	9276.2	10522.7	10218.4	7446.8	7197.6
70°	981.5	970.4	1020.4	1224.7	1334.2	1872.2	7807.0	11700.6	11684.4	8473.6	7708.6
71°	880.0	872.0	931.9	1158.9	1310.8	1560.4	6740.6	11703.8	11752.6	8821.1	7678.5
72.5°	716.5	719.3	782.8	1031.5	1293.4	1377.9	4954.1	11158.3	11261.4	9152.4	7404.3
75°	476.1	478.5	561.8	793.5	1254.1	1348.1	2722.8	9363.0	9552.7	8954.0	6756.5
77.5°	319.8	319.0	375.7	544.3	1092.6	1348.1	1596.5	7002.8	7211.1	7124.6	5208.8
80°	220.2	218.6	258.7	375.7	827.2	1364.4	1234.3	4907.7	4970.7	3847.6	2117.0
82.5°	134.9	136.1	169.0	265.4	563.0	1227.9	1165.2	2676.0	2607.4	1079.1	528.9
85°	77.4	77.0	107.9	179.7	361.4	1036.3	1136.3	1151.7	1056.5	324.9	191.2
87.5°	27.8	29.8	57.9	99.6	207.1	721.7	964.1	599.1	540.0	146.8	86.5
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°	2632.4	2632.4	2632.4	2632.4	2632.4	2632.4	2632.4	2632.4	2632.4	2632.4	2632.4
2.5°	2629.2	2631.6	2628.8	2612.9	2599.4	2577.6	2565.3	2548.3	2543.1	2540.7	2547.1
5°	2639.1	2639.9	2616.5	2574.8	2528.0	2472.9	2433.2	2384.4	2361.4	2351.5	2357.8
7.5°	2648.2	2644.7	2593.5	2513.7	2427.3	2331.2	2245.9	2167.8	2122.2	2103.5	2105.1
10°	2649.4	2634.3	2552.2	2428.8	2294.7	2153.9	2023.0	1902.4	1826.2	1776.6	1791.7
12.5°	2637.1	2611.7	2491.5	2318.9	2132.9	1940.8	1763.9	1583.0	1474.3	1423.9	1425.5
15°	2627.6	2581.6	2416.9	2189.6	1939.7	1685.3	1443.7	1231.1	1115.2	1063.7	1039.5
17.5°	2619.7	2549.1	2330.4	2044.0	1711.5	1389.0	1098.6	908.9	845.5	830.4	824.0
20°	2608.6	2514.5	2234.0	1875.4	1451.7	1057.3	802.2	708.6	709.0	726.4	728.8
22.5°	2593.1	2475.3	2131.3	1686.1	1172.8	770.1	628.8	601.9	629.2	662.6	668.5
25°	2570.1	2428.8	2017.0	1477.1	894.3	591.9	537.2	536.0	569.3	604.2	609.4
27.5°	2537.5	2368.1	1890.1	1252.5	659.0	503.1	481.2	489.6	514.2	539.6	541.5
30°	2493.9	2297.5	1750.0	1015.7	516.6	447.9	445.5	453.1	468.2	486.0	487.6
32.5°	2445.9	2225.7	1600.4	786.3	442.4	418.2	420.5	424.1	431.3	438.4	440.0
35°	2402.3	2152.3	1447.3	597.5	407.1	398.7	397.1	396.3	397.1	394.8	395.2
37.5°	2374.1	2091.6	1287.8	475.7	386.8	381.7	376.9	371.0	364.2	360.2	361.0
40°	2363.8	2046.4	1126.3	411.0	370.2	366.6	357.5	344.8	336.8	334.5	334.5
42.5°	2391.5	2023.0	970.4	378.5	356.3	350.3	335.2	320.6	314.6	314.2	313.8
45°	2476.4	2032.5	822.0	360.6	343.6	332.1	312.2	299.9	296.0	296.8	296.4
47.5°	2628.8	2092.4	695.1	348.7	330.9	315.8	293.6	283.7	278.9	278.9	279.3
50°	2887.9	2232.5	593.9	338.8	320.2	300.7	280.1	267.8	261.5	261.1	261.1
52.5°	3265.2	2483.2	530.8	330.5	308.3	287.2	266.6	251.1	243.6	242.0	241.2
55°	3738.1	2842.6	513.4	324.9	292.4	272.6	250.3	234.9	226.5	223.0	222.6
57.5°	4266.9	3279.8	547.9	318.2	276.1	255.1	232.5	217.8	209.1	204.7	204.3
60°	4802.1	3757.1	688.7	308.7	262.6	236.1	214.2	200.8	192.0	187.3	186.5
62.5°	5338.1	4260.2	976.4	307.9	253.1	217.8	195.6	184.1	175.8	170.6	169.4
65°	5942.8	4810.9	1303.3	328.9	249.9	201.1	176.5	167.4	160.3	155.5	155.1
67.5°	6637.1	5432.6	1271.9	372.1	260.7	186.1	158.7	151.6	146.4	142.4	142.0
70°	6962.8	5335.4	790.7	402.7	275.7	171.4	141.6	136.5	132.5	129.7	128.5
71°	6826.3	5066.0	663.0	399.1	274.1	165.0	134.9	130.9	127.0	124.6	123.4
72.5°	6454.2	4620.0	553.1	371.3	256.3	153.5	126.2	122.2	118.6	115.8	115.1
75°	5791.6	4126.1	442.8	296.8	204.3	129.7	110.7	106.3	103.5	102.0	100.4
77.5°	4257.4	2944.6	342.4	234.5	150.4	105.9	94.4	91.3	88.5	86.1	84.9
80°	1631.0	1140.6	230.5	175.0	110.3	83.7	76.2	74.6	71.8	70.2	70.2
82.5°	439.2	340.8	123.0	105.9	73.8	61.1	58.3	57.5	55.1	52.0	52.4
85°	177.7	150.4	69.0	58.3	45.2	36.1	39.3	39.7	36.9	32.9	33.3
87.5°	78.2	63.9	38.5	25.8	19.8	13.9	17.9	17.9	16.3	13.5	12.3
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)