

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: P386609

Luminaire Tested: GAW-SA2B-735-U-SL2

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386609
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-SA2B-735-U-SL2
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 3500K, 800mA 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: 10975.9 lumens
Efficiency: N/A
Efficacy: 127.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

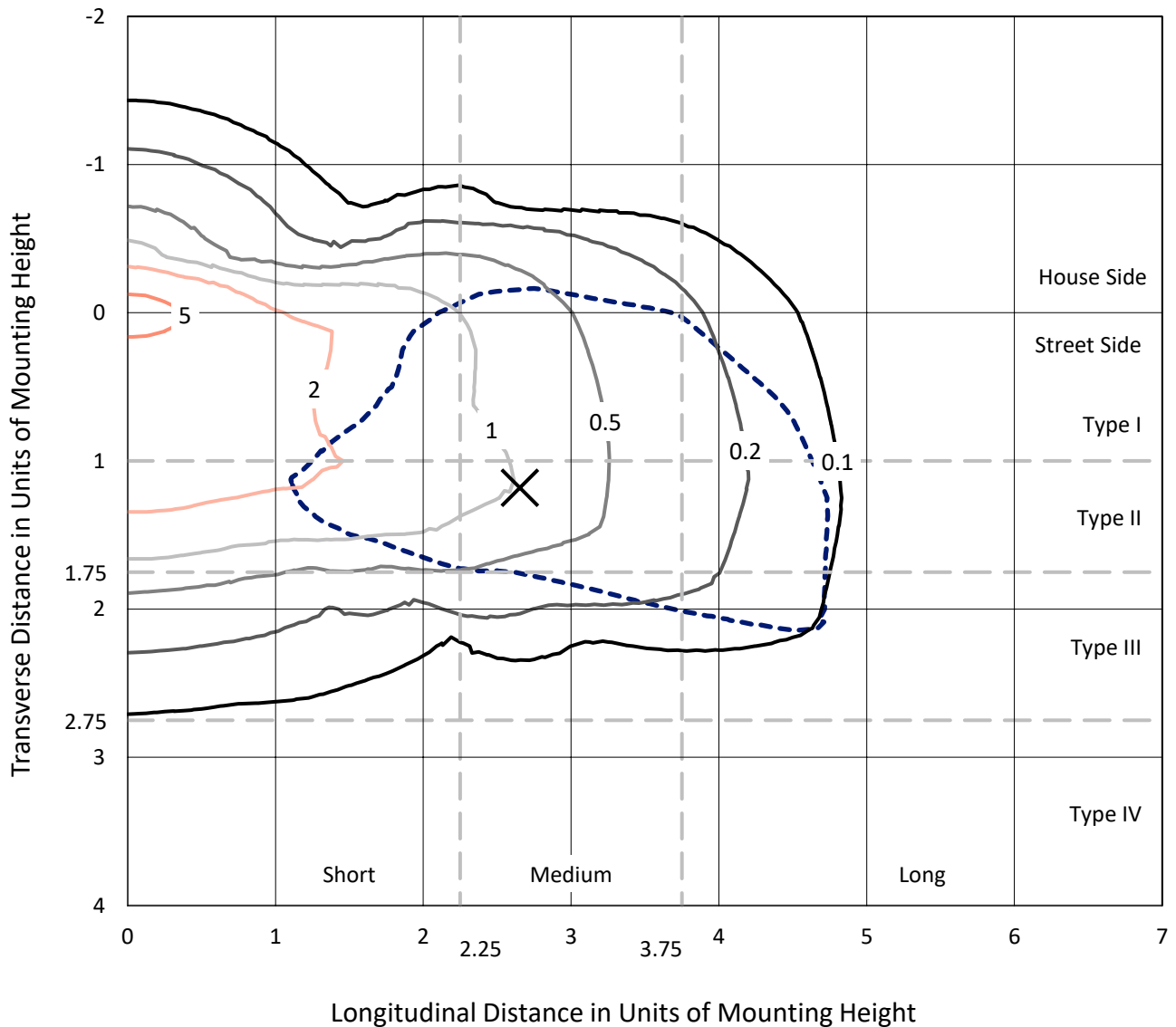
Input Watts (W): 86
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

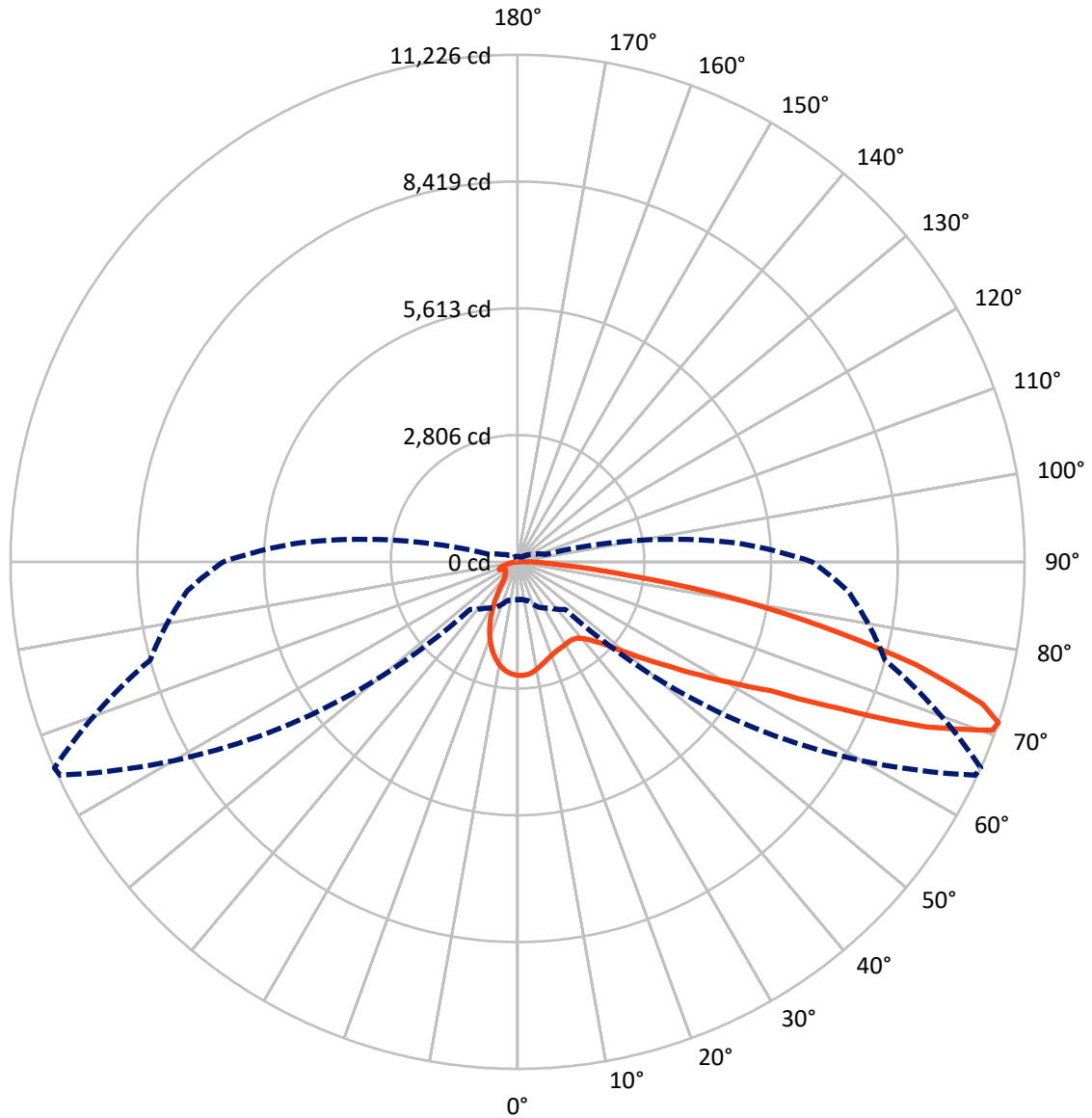
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.3 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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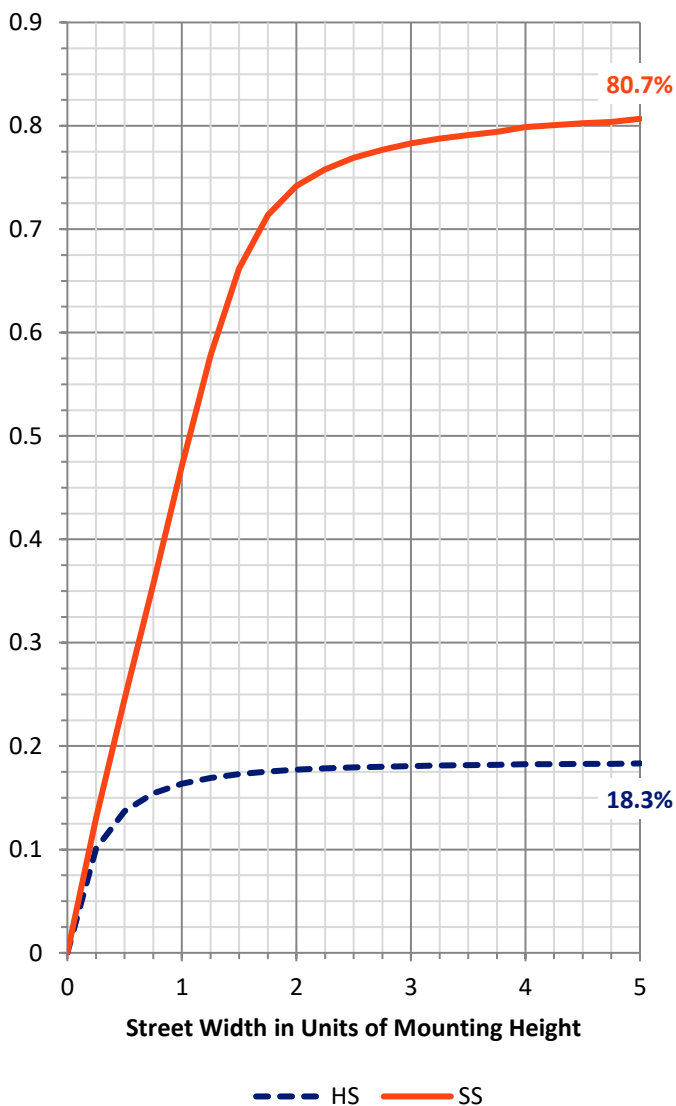
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2034.1	0.0	2034.1
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	8941.8	0.0	8941.8
	% Fixture	81.5	0.0	81.5
Total	Lumens	10975.9	0.0	10975.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.3	2.0
10°-20°	530.8	4.8
20°-30°	713.0	6.5
30°-40°	938.0	8.5
40°-50°	1364.5	12.4
50°-60°	2131.5	19.4
60°-70°	2670.1	24.3
70°-80°	2036.7	18.6
80°-90°	369.8	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°	10975.9	100.0
0°-180°	10975.9	100.0

Coefficient of Utilization

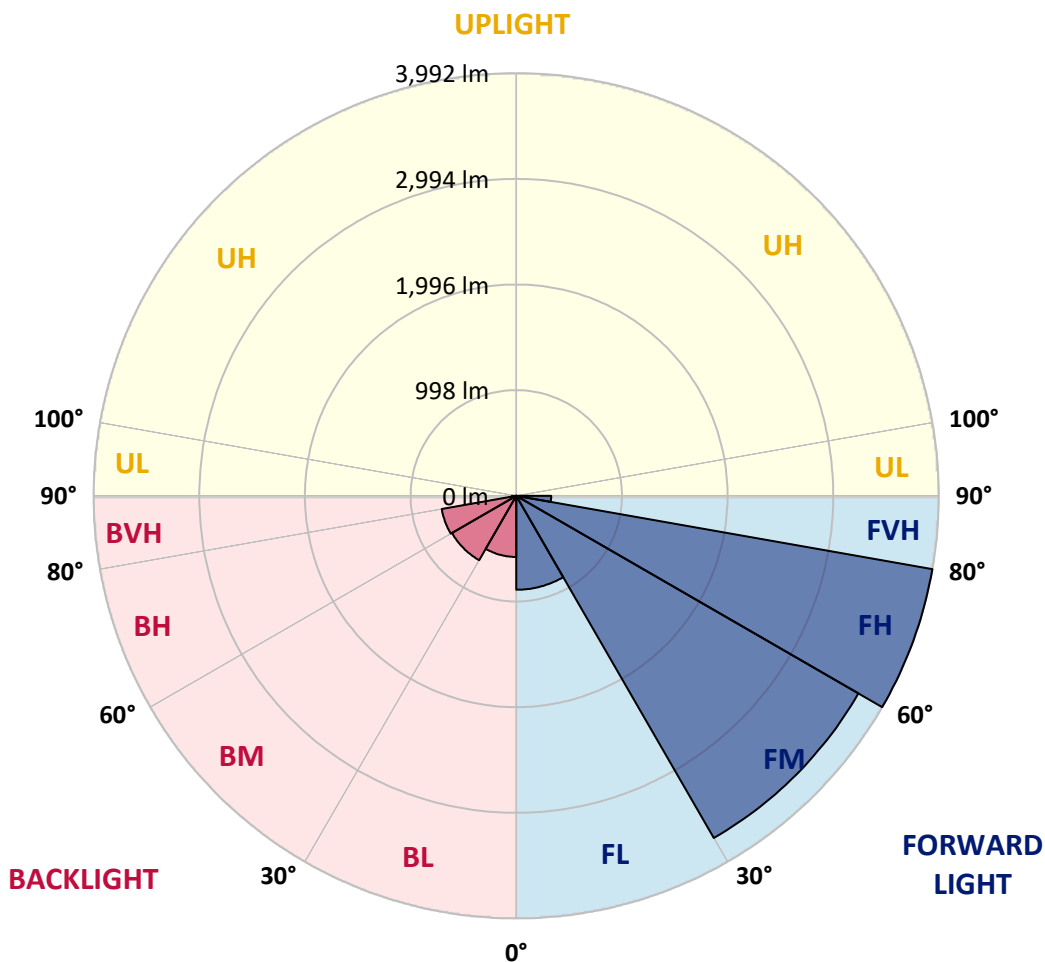


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	887.6	8.1			
FM (30°-60°)	3732.4	34.0			
FH (60°-80°)	3992.0	36.4			G2/5000
FVH (80°-90°)	329.8	3.0			G3/500
BL (0°-30°)	577.6	5.3	B2/1000		
BM (30°-60°)	701.7	6.4	B1/1000		
BH (60°-80°)	714.7	6.5	B2/1000		G2/1000
BVH (80°-90°)	40.0	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°	2514.4	2514.4	2514.4	2514.4	2514.4	2514.4	2514.4	2514.4	2514.4	2514.4	2514.4
2.5°	2467.8	2463.9	2475.3	2487.0	2491.6	2499.2	2510.5	2517.0	2516.6	2517.8	2514.0
5°	2304.1	2299.1	2321.8	2340.4	2376.0	2416.2	2465.1	2499.9	2500.8	2520.4	2525.7
7.5°	2149.1	2145.7	2171.8	2201.8	2243.0	2304.4	2383.6	2458.7	2463.2	2516.6	2535.2
10°	2024.8	2024.0	2049.4	2082.0	2130.1	2198.7	2289.7	2399.5	2406.4	2498.4	2536.7
12.5°	1927.7	1929.2	1951.2	1988.4	2039.1	2110.8	2209.3	2333.3	2344.3	2469.7	2528.0
15°	1856.1	1862.2	1880.0	1917.5	1967.6	2040.3	2141.4	2271.8	2288.6	2437.4	2523.1
17.5°	1815.2	1822.0	1834.5	1865.6	1912.6	1982.7	2078.6	2221.4	2236.6	2412.8	2523.5
20°	1803.1	1808.7	1815.9	1834.9	1874.7	1938.3	2028.9	2175.9	2192.3	2393.1	2527.3
22.5°	1826.9	1831.1	1831.8	1830.3	1854.6	1906.5	1992.9	2142.6	2160.0	2380.2	2529.9
25°	1878.1	1883.8	1879.6	1865.6	1857.7	1889.5	1974.3	2120.6	2138.1	2370.7	2524.6
27.5°	1955.1	1955.8	1952.3	1934.2	1896.6	1891.4	1968.7	2107.7	2124.4	2359.8	2513.6
30°	2059.6	2064.5	2058.5	2033.9	1972.4	1921.7	1975.5	2095.2	2110.4	2345.8	2495.8
32.5°	2182.0	2194.1	2193.8	2168.0	2080.1	1989.5	2003.5	2087.6	2099.5	2330.9	2474.2
35°	2308.9	2325.7	2356.8	2345.8	2237.0	2096.7	2057.4	2099.8	2107.7	2329.0	2459.1
37.5°	2440.8	2457.5	2521.5	2551.1	2423.8	2250.2	2142.2	2142.6	2146.4	2352.1	2457.9
40°	2578.8	2596.6	2692.9	2769.8	2665.9	2444.7	2279.1	2232.0	2227.9	2409.0	2480.3
42.5°	2772.1	2787.9	2903.6	3001.7	2934.7	2693.6	2468.2	2370.0	2361.3	2520.4	2551.9
45°	3016.5	3030.1	3152.9	3257.9	3223.3	2977.8	2705.7	2559.8	2558.3	2706.1	2697.0
47.5°	3307.1	3317.8	3428.0	3529.6	3542.1	3304.9	3004.4	2852.8	2828.1	2960.8	2921.7
50°	3609.9	3621.6	3696.7	3805.9	3898.7	3742.5	3388.6	3211.6	3178.6	3296.9	3240.1
52.5°	3810.4	3826.0	3891.1	4029.4	4299.6	4222.3	3843.0	3646.6	3596.7	3704.3	3660.7
55°	3720.9	3755.8	3855.5	4077.2	4620.2	4955.2	4403.4	4154.1	4097.6	4187.1	4161.3
57.5°	3314.4	3362.1	3498.1	3840.3	4665.3	5600.9	5250.8	4751.7	4711.9	4686.2	4697.9
60°	2571.2	2617.1	2785.7	3231.7	4351.2	6072.3	6526.0	5488.4	5430.8	5187.1	5197.8
62.5°	1819.7	1796.6	1912.2	2238.5	3535.6	6127.7	7977.0	6473.6	6284.2	5716.1	5669.5
65°	1387.8	1382.4	1434.4	1538.2	2141.4	5465.7	8841.4	8129.7	7833.7	6338.4	6228.5
67.5°	1140.2	1130.8	1181.9	1333.2	1379.0	3526.2	8860.4	10051.0	9760.3	7113.0	6875.0
70°	937.5	926.9	974.7	1169.8	1274.4	1788.3	7457.1	11176.2	11160.6	8093.7	7363.1
71°	840.5	833.0	890.2	1106.9	1252.0	1490.4	6438.4	11179.2	11225.8	8425.7	7334.3
72.5°	684.3	687.1	747.7	985.2	1235.4	1316.1	4732.0	10658.1	10756.6	8742.1	7072.4
75°	454.8	457.0	536.6	757.9	1197.9	1287.7	2600.8	8943.3	9124.4	8552.6	6453.6
77.5°	305.4	304.6	358.8	520.0	1043.7	1287.7	1524.9	6689.0	6887.9	6805.3	4975.3
80°	210.3	208.8	247.1	358.8	790.1	1303.2	1178.9	4687.7	4747.9	3675.1	2022.1
82.5°	128.9	130.0	161.4	253.5	537.7	1172.8	1113.0	2556.1	2490.5	1030.8	505.1
85°	73.9	73.6	103.1	171.6	345.2	989.8	1085.3	1100.1	1009.2	310.4	182.6
87.5°	26.5	28.5	55.3	95.2	197.8	689.3	920.9	572.2	515.7	140.3	82.6
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°	2514.4	2514.4	2514.4	2514.4	2514.4	2514.4	2514.4	2514.4	2514.4	2514.4	2514.4
2.5°	2511.4	2513.6	2510.9	2495.8	2482.9	2462.1	2450.3	2434.1	2429.1	2426.8	2432.8
5°	2520.8	2521.5	2499.2	2459.4	2414.7	2362.0	2324.2	2277.6	2255.6	2246.1	2252.1
7.5°	2529.5	2526.1	2477.2	2401.1	2318.4	2226.7	2145.3	2070.6	2027.0	2009.2	2010.8
10°	2530.6	2516.3	2437.8	2319.9	2191.9	2057.4	1932.3	1817.1	1744.4	1696.9	1711.4
12.5°	2518.9	2494.7	2379.9	2215.0	2037.3	1853.8	1684.8	1512.0	1408.2	1360.1	1361.6
15°	2509.8	2465.8	2308.6	2091.5	1852.7	1609.8	1379.0	1175.9	1065.3	1016.0	992.8
17.5°	2502.3	2434.8	2226.0	1952.3	1634.8	1326.7	1049.3	868.2	807.6	793.1	787.1
20°	2491.6	2401.8	2133.9	1791.3	1386.6	1009.9	766.3	676.8	677.2	693.8	696.2
22.5°	2476.8	2364.3	2035.8	1610.6	1120.2	735.5	600.6	574.9	601.0	632.9	638.5
25°	2454.8	2319.9	1926.6	1410.9	854.2	565.4	513.1	512.0	543.8	577.2	582.0
27.5°	2423.8	2262.0	1805.3	1196.3	629.5	480.5	459.6	467.6	491.1	515.4	517.2
30°	2382.1	2194.5	1671.6	970.1	493.4	427.8	425.5	432.8	447.2	464.2	465.8
32.5°	2336.3	2125.9	1528.7	751.0	422.5	399.4	401.7	405.1	411.9	418.8	420.3
35°	2294.6	2055.9	1382.4	570.7	388.8	380.8	379.3	378.6	379.3	377.1	377.4
37.5°	2267.7	1997.8	1230.0	454.4	369.5	364.6	360.0	354.3	347.9	344.1	344.9
40°	2257.8	1954.7	1075.9	392.6	353.6	350.1	341.5	329.4	321.7	319.5	319.5
42.5°	2284.3	1932.3	926.9	361.5	340.3	334.6	320.2	306.1	300.5	300.1	299.8
45°	2365.4	1941.4	785.2	344.5	328.1	317.1	298.3	286.5	282.7	283.4	283.0
47.5°	2510.9	1998.6	664.0	333.1	316.0	301.6	280.4	270.9	266.4	266.4	266.8
50°	2758.4	2132.3	567.3	323.6	305.8	287.3	267.5	255.8	249.7	249.3	249.3
52.5°	3118.8	2371.9	507.1	315.6	294.4	274.4	254.7	239.9	232.7	231.2	230.4
55°	3570.5	2715.2	490.4	310.4	279.3	260.3	239.1	224.3	216.3	213.0	212.6
57.5°	4075.7	3132.8	523.3	303.9	263.8	243.7	222.1	208.1	199.7	195.6	195.2
60°	4586.9	3588.7	657.9	294.8	250.9	225.5	204.6	191.7	183.4	178.9	178.1
62.5°	5098.8	4069.2	932.6	294.0	241.8	208.1	186.8	175.9	167.9	163.0	161.9
65°	5676.4	4595.2	1244.9	314.1	238.7	192.1	168.6	159.9	153.1	148.5	148.1
67.5°	6339.5	5189.0	1214.9	355.5	248.9	177.7	151.6	144.8	139.9	136.0	135.6
70°	6650.6	5096.2	755.3	384.7	263.4	163.7	135.3	130.4	126.5	123.9	122.8
71°	6520.3	4838.9	633.2	381.2	261.9	157.6	128.9	125.0	121.3	119.0	117.9
72.5°	6164.9	4412.9	528.2	354.7	244.8	146.6	120.5	116.7	113.3	110.7	109.9
75°	5532.0	3941.1	422.9	283.4	195.2	123.9	105.7	101.5	98.9	97.4	95.9
77.5°	4066.5	2812.6	327.0	224.0	143.6	101.2	90.2	87.2	84.5	82.2	81.1
80°	1557.9	1089.5	220.2	167.1	105.3	79.9	72.8	71.2	68.6	67.1	67.1
82.5°	419.5	325.5	117.5	101.2	70.5	58.3	55.7	55.0	52.7	49.6	50.0
85°	169.7	143.6	65.9	55.7	43.2	34.5	37.5	37.9	35.2	31.5	31.8
87.5°	74.7	61.0	36.7	24.6	19.0	13.2	17.1	17.1	15.5	12.9	11.7
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)