

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: P386921

Luminaire Tested: GAW-SA2C-827-U-SL4

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386921
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GAW-SA2C-827-U-SL4
Description: GALLEON WALL LUMINAIRE
(2) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10310 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

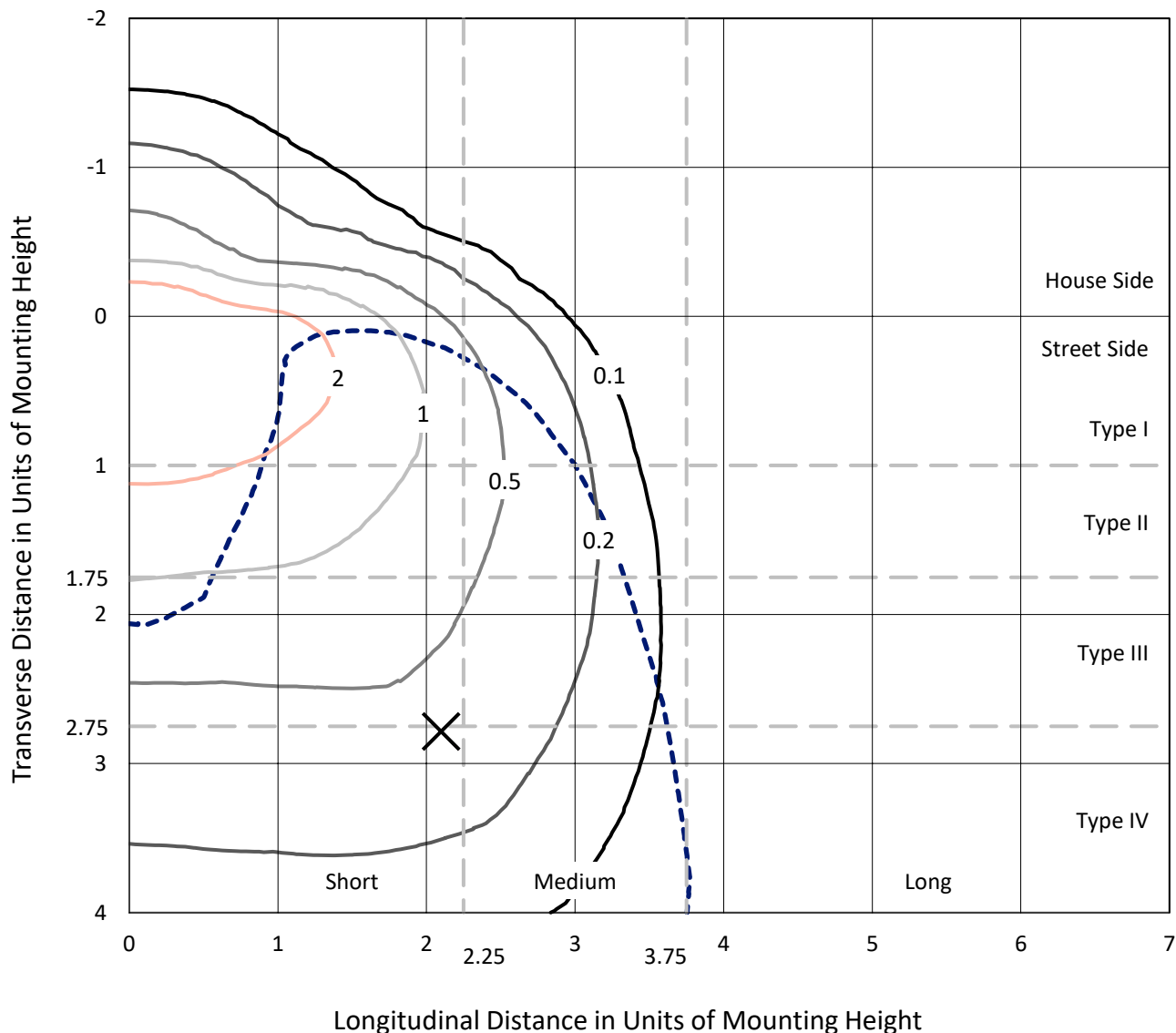
Input Watts (W): 111
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

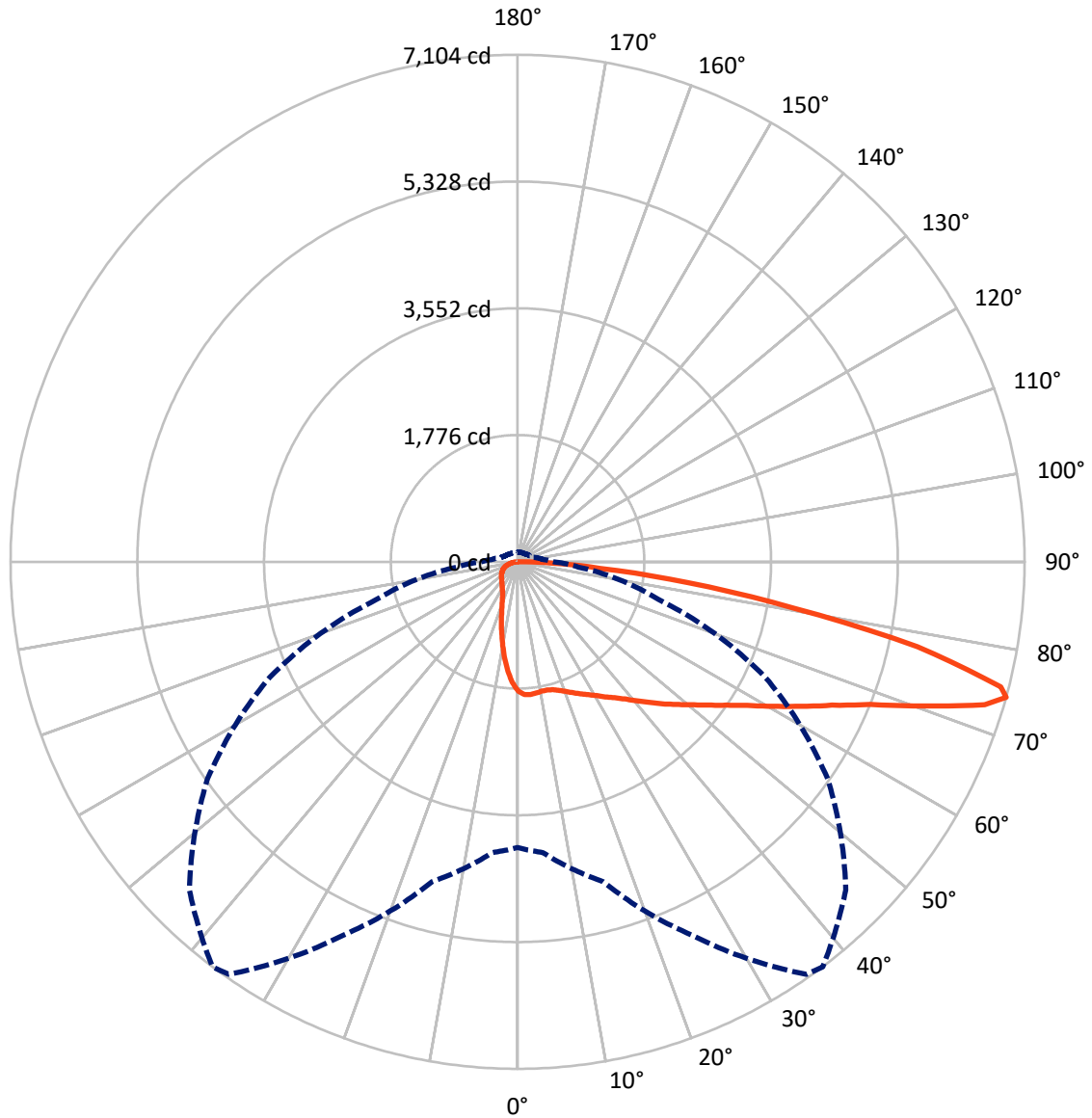
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical



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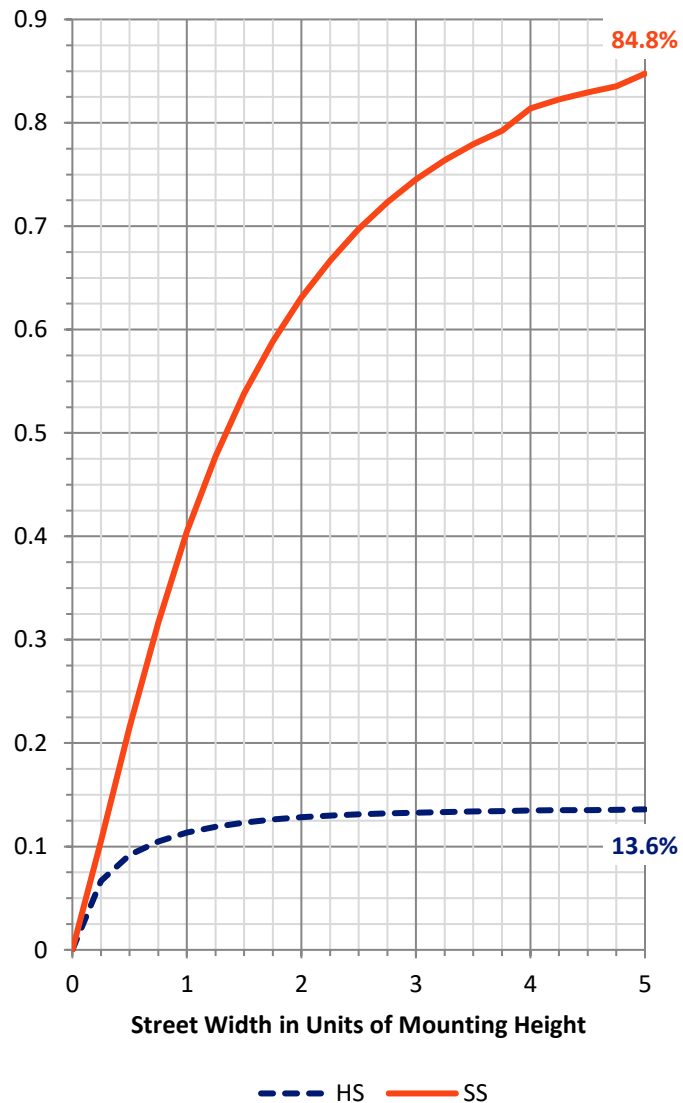
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1418.6	0.0	1418.6
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	8891.4	0.0	8891.4
	% Fixture	86.2	0.0	86.2
Total	Lumens	10310.0	0.0	10310.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.0	1.6
10°-20°	410.0	4.0
20°-30°	631.8	6.1
30°-40°	918.7	8.9
40°-50°	1352.2	13.1
50°-60°	1898.9	18.4
60°-70°	2403.5	23.3
70°-80°	2116.4	20.5
80°-90°	418.4	4.1
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°	10310.0	100.0
0°-180°	10310.0	100.0

Coefficient of Utilization



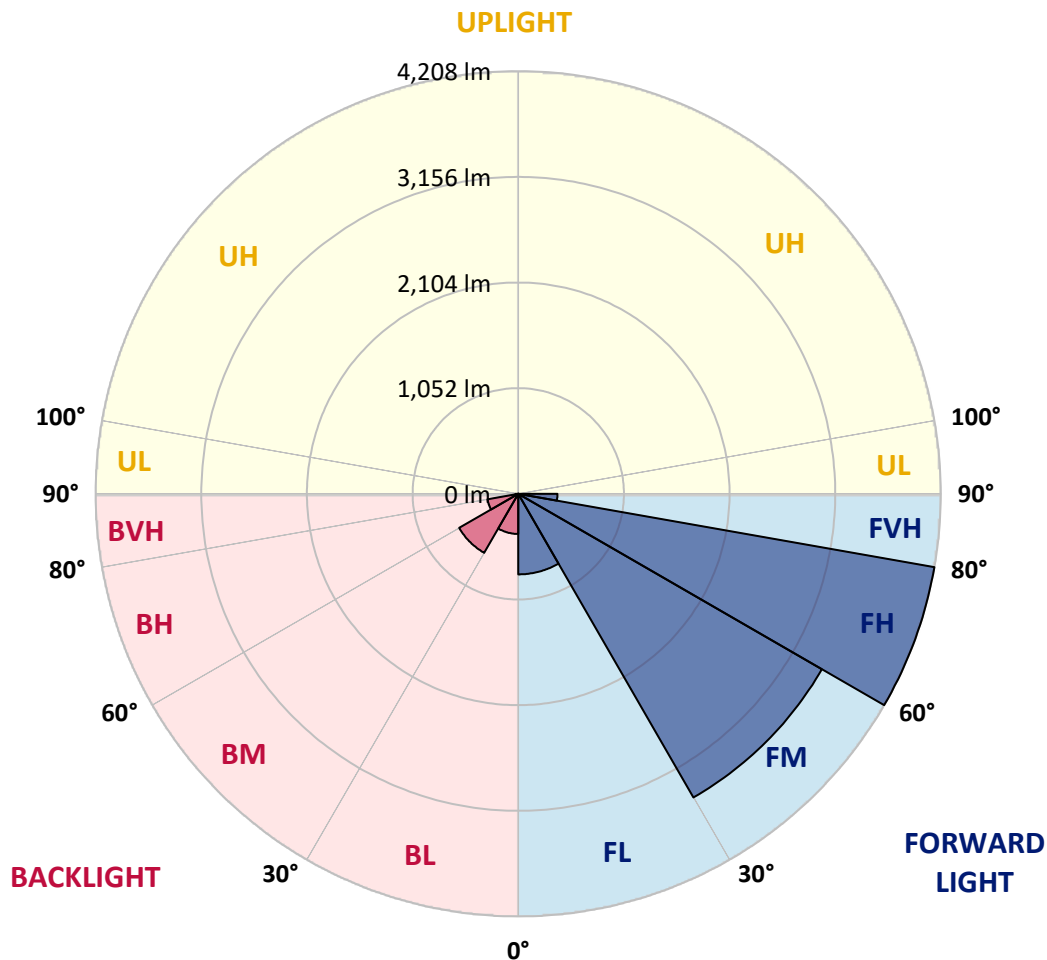
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	802.2	7.8			
FM (30°-60°)	3491.0	33.9			
FH (60°-80°)	4208.0	40.8			G2/5000
FVH (80°-90°)	390.1	3.8			G3/500
BL (0°-30°)	399.6	3.9	B1/500		
BM (30°-60°)	678.8	6.6	B1/1000		
BH (60°-80°)	311.8	3.0	B1/500		G1/500
BVH (80°-90°)	28.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	1816.6	1816.6	1816.6	1816.6	1816.6	1816.6	1816.6	1816.6	1816.6	1816.6	1816.6
2.5°	1878.7	1879.0	1878.7	1875.8	1868.9	1863.1	1858.3	1851.4	1836.2	1824.6	1807.1
5°	1896.5	1894.3	1892.8	1887.4	1876.5	1870.0	1860.9	1847.8	1822.8	1799.5	1771.2
7.5°	1888.1	1885.6	1882.3	1875.8	1863.4	1858.0	1845.3	1828.2	1798.1	1767.6	1726.9
10°	1862.3	1861.6	1860.2	1858.7	1848.2	1843.8	1832.2	1814.0	1784.3	1747.2	1699.6
12.5°	1833.7	1835.5	1841.3	1848.9	1844.2	1842.0	1834.7	1822.4	1791.9	1751.9	1694.6
15°	1815.5	1820.6	1836.2	1856.2	1860.2	1859.4	1857.6	1849.6	1817.3	1773.0	1706.2
17.5°	1809.3	1817.7	1847.5	1880.5	1892.1	1894.7	1895.4	1881.6	1845.6	1798.8	1718.2
20°	1820.6	1831.1	1874.7	1920.1	1938.6	1940.1	1936.8	1912.8	1872.5	1820.9	1724.7
22.5°	1854.7	1864.2	1918.6	1969.8	1990.9	1993.1	1983.3	1947.0	1900.8	1847.1	1733.8
25°	1920.4	1932.1	1986.5	2037.8	2048.6	2049.0	2034.8	1989.8	1937.9	1883.8	1753.4
27.5°	2006.2	2017.8	2066.8	2116.9	2111.1	2107.8	2088.6	2043.6	1986.2	1934.2	1788.3
30°	2101.7	2114.4	2160.9	2196.5	2182.7	2176.1	2160.5	2102.4	2053.4	2003.3	1841.6
32.5°	2200.5	2212.1	2252.8	2277.1	2259.7	2256.7	2233.1	2180.1	2140.9	2108.6	1928.1
35°	2301.8	2310.1	2350.1	2363.9	2340.6	2339.9	2333.4	2284.7	2260.0	2275.3	2053.7
37.5°	2405.3	2407.5	2441.6	2442.3	2435.4	2438.3	2445.2	2414.7	2421.6	2469.2	2217.2
40°	2497.5	2503.3	2528.0	2535.7	2547.6	2557.8	2592.3	2572.3	2625.7	2710.0	2420.5
42.5°	2565.8	2577.1	2616.6	2636.3	2675.1	2691.1	2739.8	2758.3	2865.8	2992.2	2662.4
45°	2623.5	2641.0	2704.5	2744.8	2810.6	2838.5	2908.3	2970.4	3137.1	3298.3	2917.0
47.5°	2686.0	2708.2	2787.7	2864.7	2954.0	2985.6	3112.4	3205.3	3426.5	3606.3	3157.0
50°	2777.9	2795.0	2872.7	2993.6	3105.1	3145.8	3321.2	3454.5	3720.7	3899.7	3365.1
52.5°	2906.1	2899.6	2965.3	3134.9	3284.5	3334.6	3544.2	3719.6	4018.9	4165.2	3540.9
55°	3035.0	3024.1	3070.2	3282.7	3493.7	3546.4	3789.7	3985.8	4302.5	4404.2	3675.7
57.5°	3178.5	3157.8	3196.6	3449.4	3731.9	3794.8	4064.6	4268.7	4581.4	4597.4	3761.4
60°	3326.3	3298.3	3341.9	3656.0	4034.5	4108.6	4386.4	4544.7	4844.3	4752.1	3789.0
62.5°	3455.6	3436.0	3503.1	3886.7	4375.5	4456.8	4702.3	4838.2	5103.6	4816.4	3689.5
65°	3568.5	3571.8	3688.0	4146.0	4755.7	4842.5	5064.8	5199.9	5307.7	4778.2	3456.7
67.5°	3703.3	3721.8	3920.1	4487.3	5234.4	5329.5	5592.1	5594.3	5421.8	4554.5	2998.3
70°	3899.7	3937.9	4239.3	4960.9	5915.0	6045.7	6248.4	5826.0	5261.6	3948.0	2359.2
72.5°	4074.1	4145.2	4578.9	5502.8	6744.5	6843.6	6632.2	5692.3	4592.3	2958.8	1469.8
74°	4003.2	4091.5	4640.6	5769.7	7056.8	7104.4	6502.6	5302.3	3828.9	2049.0	854.2
75°	3850.7	3946.6	4550.5	5767.2	7017.2	6990.7	6189.5	4856.7	3153.4	1397.5	568.4
77.5°	3107.7	3209.0	3834.4	4942.8	5753.7	5728.7	4754.6	3258.0	1381.1	458.3	288.7
80°	1806.8	1884.1	2380.2	3138.9	3879.8	3925.2	3126.9	1612.1	543.3	257.5	195.7
82.5°	802.6	856.0	1149.8	1602.3	2341.4	2399.8	1637.5	844.7	335.6	156.5	117.7
85°	526.6	566.2	698.0	763.0	1114.9	1154.9	801.5	657.7	221.5	86.1	86.4
87.5°	378.8	416.9	518.6	452.9	511.7	484.5	436.2	608.7	89.0	49.0	29.1
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°	1816.6	1816.6	1816.6	1816.6	1816.6	1816.6	1816.6	1816.6	1816.6	1816.6	1816.6
2.5°	1799.5	1793.7	1780.6	1755.9	1742.1	1730.5	1711.3	1700.0	1694.9	1694.6	1696.7
5°	1754.8	1741.4	1707.6	1666.2	1633.2	1603.0	1565.6	1543.1	1527.1	1517.7	1520.2
7.5°	1702.9	1681.8	1628.8	1562.7	1509.7	1451.2	1393.5	1359.0	1332.1	1312.1	1315.8
10°	1667.3	1638.3	1560.9	1465.8	1377.5	1292.5	1213.0	1165.4	1127.6	1098.6	1100.8
12.5°	1655.3	1616.1	1509.0	1381.9	1258.0	1141.8	1037.9	964.9	926.1	893.0	895.6
15°	1657.1	1604.5	1465.4	1306.3	1150.5	1004.2	878.1	792.8	740.1	717.3	717.6
17.5°	1658.6	1591.1	1419.6	1225.3	1044.1	875.6	738.7	652.3	602.5	581.4	581.8
20°	1653.9	1569.3	1363.0	1132.4	933.0	757.6	625.0	551.7	513.9	497.5	497.5
22.5°	1647.7	1543.5	1299.1	1039.0	823.3	655.2	543.7	487.7	465.9	455.1	454.7
25°	1650.6	1524.2	1233.7	943.2	722.3	573.4	489.6	452.5	438.0	431.1	430.7
27.5°	1666.2	1515.1	1173.4	847.6	634.1	512.1	453.2	427.1	417.6	413.3	413.3
30°	1694.6	1515.1	1110.6	766.3	560.7	466.7	425.3	407.5	400.9	398.0	398.0
32.5°	1743.9	1523.5	1049.9	685.7	502.3	431.1	402.0	390.0	385.0	383.5	383.5
35°	1828.9	1551.8	990.7	609.4	455.1	402.0	379.9	373.0	369.3	369.0	370.1
37.5°	1948.4	1609.6	935.2	553.1	421.6	378.4	361.4	355.9	353.7	355.5	357.0
40°	2098.8	1688.0	884.7	502.3	396.2	359.5	344.3	340.7	339.6	342.1	344.3
42.5°	2280.4	1794.1	843.3	465.6	376.6	343.6	329.8	325.4	324.3	327.2	330.1
45°	2476.8	1908.1	814.2	438.3	361.4	331.6	317.0	312.3	310.1	311.6	314.9
47.5°	2655.5	2016.0	802.6	419.1	346.8	321.4	305.8	300.0	296.3	295.6	298.2
50°	2806.2	2096.2	808.1	407.5	335.2	310.1	294.9	288.4	282.9	279.6	281.5
52.5°	2915.9	2146.7	813.1	402.4	326.1	297.8	282.9	276.7	269.5	264.0	264.0
55°	2995.4	2158.3	801.9	398.4	319.2	284.4	269.5	263.7	256.4	250.2	249.5
57.5°	3026.7	2125.6	760.1	392.6	314.5	271.7	255.3	251.0	244.8	237.5	237.2
60°	2984.5	2024.7	679.5	380.2	308.3	261.1	241.1	238.2	235.3	228.4	228.1
62.5°	2815.3	1803.1	575.3	355.2	296.0	249.9	228.1	229.5	229.9	225.2	224.4
65°	2508.4	1498.8	473.6	322.5	277.5	236.4	214.6	221.5	225.5	224.8	223.7
67.5°	2062.4	1166.5	401.3	288.0	253.1	217.9	200.1	208.1	211.4	213.9	213.2
70°	1530.8	822.6	331.9	251.7	223.7	196.1	181.2	185.2	183.0	185.9	187.0
72.5°	853.5	493.5	270.6	215.4	193.2	170.7	160.2	159.4	154.7	154.7	154.7
74°	512.1	362.1	237.9	192.8	174.7	154.0	144.9	141.6	137.3	137.6	137.3
75°	411.8	311.2	218.3	178.0	161.6	144.2	135.1	130.7	127.5	127.5	127.1
77.5°	260.0	236.4	175.8	141.6	129.3	118.8	112.6	106.8	106.8	106.4	106.0
80°	196.5	188.1	136.9	107.1	99.1	91.2	87.2	84.6	84.6	85.7	85.3
82.5°	134.7	141.6	96.2	74.8	70.8	65.0	64.3	64.6	63.6	62.1	61.7
85°	98.4	106.4	65.0	47.2	43.2	39.6	42.5	43.9	42.1	38.9	37.4
87.5°	37.8	69.7	34.9	19.6	18.2	15.6	18.2	18.9	20.3	16.0	16.3
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)