

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: P386916

Luminaire Tested: GAW-SA2C-827-U-SL2-HSS

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386916
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GAW-SA2C-827-U-SL2-HSS
Description: GALLEON WALL LUMINAIRE
(2) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8988 lumens
Efficiency: N/A
Efficacy: 81.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

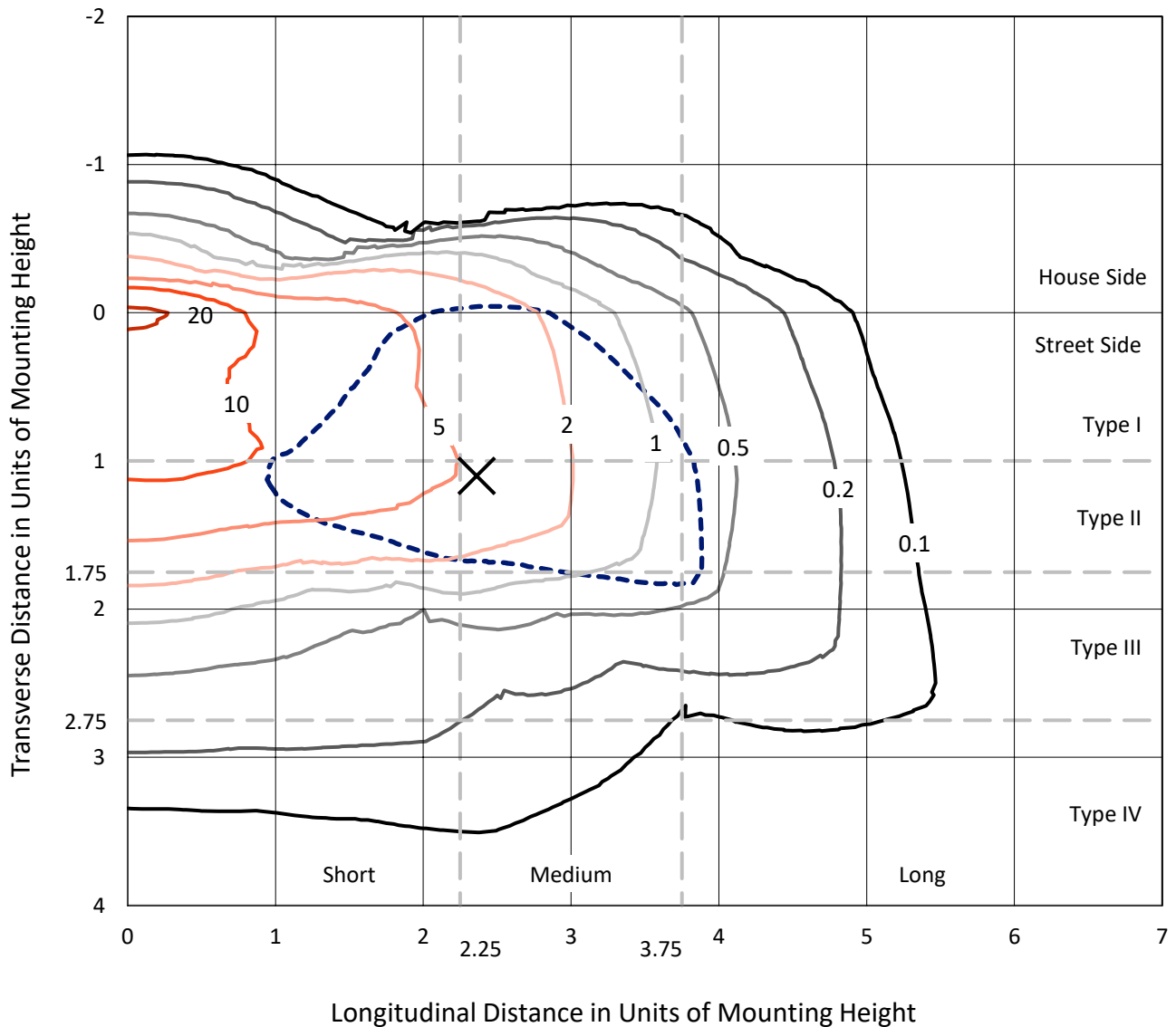
Input Watts (W): 111
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

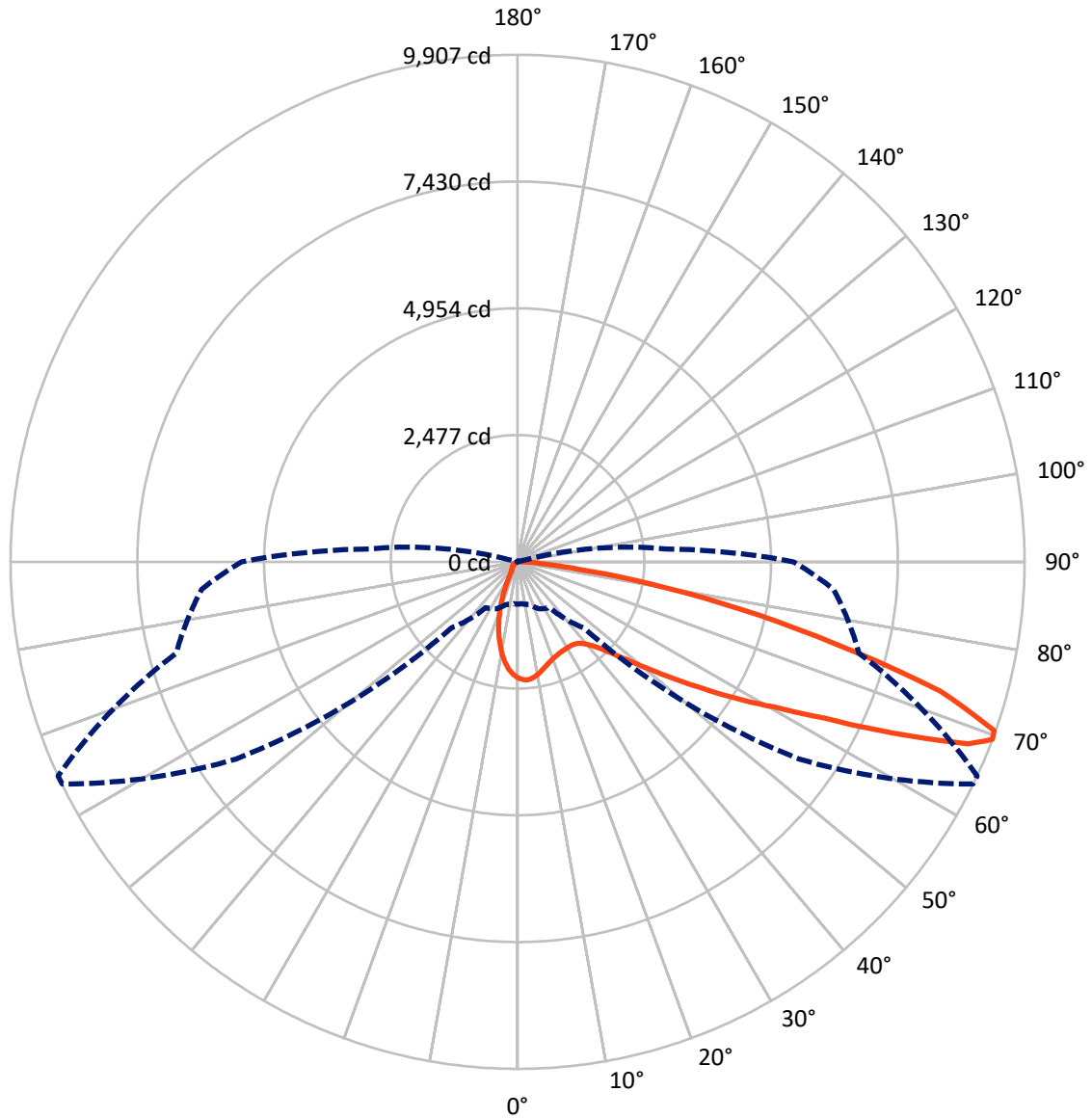
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 22.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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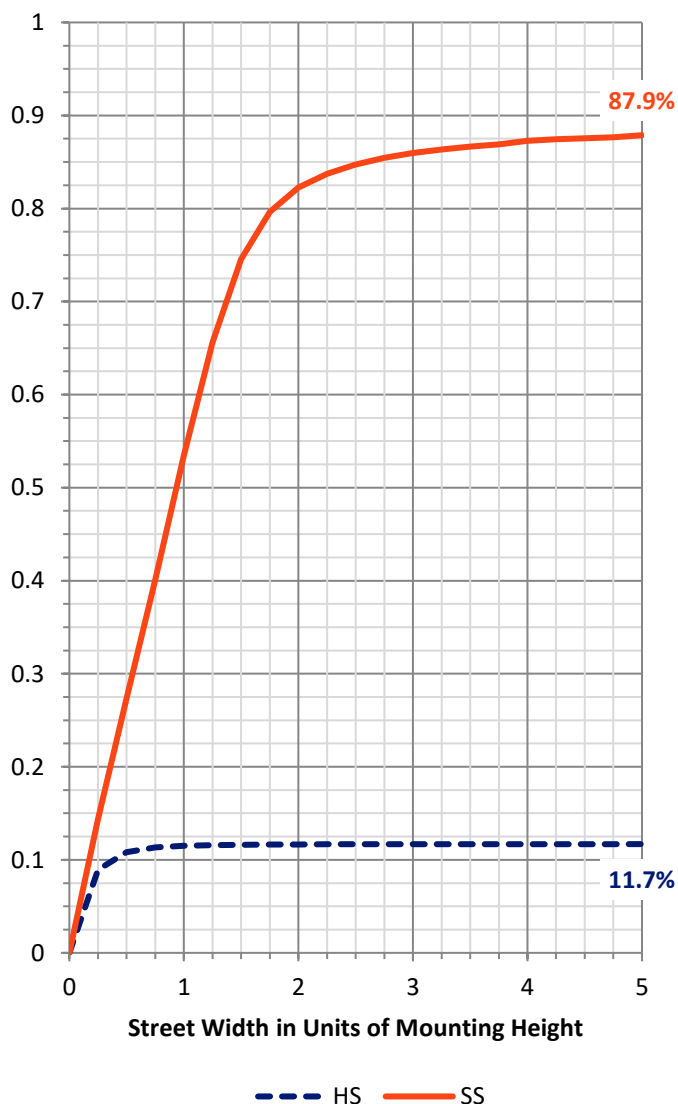
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1059.5	0.0	1059.5
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	7928.5	0.0	7928.5
	% Fixture	88.2	0.0	88.2
Total	Lumens	8988.0	0.0	8988.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.9	2.1
10°-20°	415.8	4.6
20°-30°	575.8	6.4
30°-40°	802.9	8.9
40°-50°	1248.0	13.9
50°-60°	2003.5	22.3
60°-70°	2266.3	25.2
70°-80°	1331.0	14.8
80°-90°	154.8	1.7
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°	8988.0	100.0
0°-180°	8988.0	100.0

Coefficient of Utilization

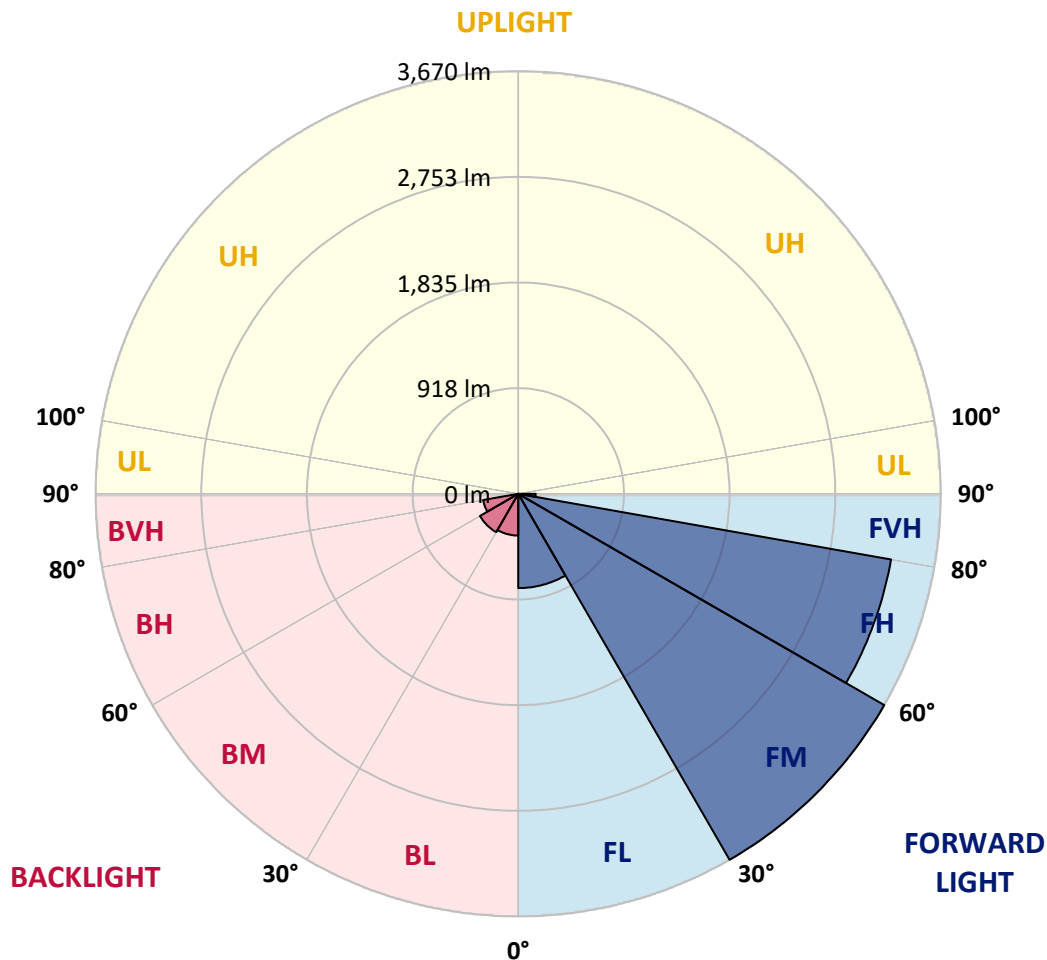


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	819.0	9.1			
FM (30°-60°)	3670.4	40.8			
FH (60°-80°)	3287.7	36.6			G2/5000
FVH (80°-90°)	151.3	1.7			G2/225
BL (0°-30°)	362.5	4.0	B1/500		
BM (30°-60°)	383.9	4.3	B1/1000		
BH (60°-80°)	309.6	3.4	B1/500		G1/500
BVH (80°-90°)	3.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2271.3	2271.3	2271.3	2271.3	2271.3	2271.3	2271.3	2271.3	2271.3	2271.3	2271.3
2.5°	2291.4	2285.7	2290.3	2300.2	2305.1	2305.1	2308.9	2304.4	2305.9	2294.9	2278.9
5°	2148.1	2139.3	2151.9	2179.6	2213.9	2243.1	2286.5	2309.3	2311.6	2312.0	2293.3
7.5°	1993.6	1985.7	2004.3	2037.0	2081.1	2135.5	2211.2	2277.4	2281.2	2316.9	2303.2
10°	1868.1	1862.4	1884.1	1919.1	1970.8	2031.7	2124.5	2216.5	2227.5	2306.7	2301.7
12.5°	1768.5	1763.9	1784.5	1824.8	1877.7	1945.0	2041.9	2148.8	2163.7	2283.5	2294.1
15°	1695.9	1695.1	1712.2	1751.0	1809.6	1872.3	1971.6	2086.1	2103.2	2258.4	2293.0
17.5°	1657.8	1659.0	1671.5	1704.6	1754.8	1817.2	1912.3	2033.2	2051.8	2235.9	2298.7
20°	1654.0	1655.2	1662.0	1680.6	1721.3	1776.5	1864.0	1988.7	2008.1	2219.2	2307.8
22.5°	1687.5	1686.7	1688.6	1686.7	1709.5	1751.4	1832.0	1954.5	1976.9	2208.1	2315.0
25°	1751.8	1750.6	1749.9	1735.8	1720.6	1743.0	1818.7	1935.1	1956.4	2200.2	2319.2
27.5°	1841.1	1840.4	1839.2	1816.0	1770.4	1756.3	1820.2	1927.9	1945.7	2193.7	2318.4
30°	1958.7	1964.0	1962.5	1930.1	1859.0	1797.0	1836.2	1924.0	1939.6	2181.1	2310.5
32.5°	2096.7	2107.4	2115.7	2081.1	1992.1	1877.7	1873.1	1928.2	1939.6	2171.6	2296.0
35°	2240.1	2253.8	2284.6	2272.4	2155.3	1999.0	1936.6	1953.3	1962.8	2177.0	2289.2
37.5°	2381.2	2397.6	2464.5	2499.9	2369.0	2159.5	2035.5	2015.3	2020.3	2209.3	2296.8
40°	2545.1	2569.8	2671.4	2728.4	2624.2	2374.4	2183.4	2121.8	2123.7	2280.4	2332.1
42.5°	2760.4	2785.9	2895.8	2985.1	2911.7	2645.9	2384.2	2284.6	2282.7	2413.5	2415.4
45°	3022.8	3049.4	3163.1	3262.4	3229.3	2967.7	2641.3	2522.3	2520.0	2623.5	2573.3
47.5°	3320.2	3346.5	3448.0	3550.3	3586.1	3343.4	2968.8	2846.7	2841.4	2915.2	2817.0
50°	3575.4	3592.5	3686.1	3823.8	3985.0	3805.1	3376.1	3258.6	3252.9	3302.7	3174.9
52.5°	3668.2	3678.1	3773.2	3966.0	4368.4	4430.4	3911.2	3759.9	3755.7	3777.4	3651.5
55°	3480.3	3498.2	3615.0	3901.0	4576.0	5137.0	4586.7	4380.5	4349.0	4302.2	4149.7
57.5°	2968.4	2996.9	3122.4	3502.8	4479.1	5697.6	5579.3	5082.6	5036.2	4750.2	4554.7
60°	2224.1	2259.1	2363.3	2773.7	3961.4	5897.3	6664.0	5864.9	5760.4	5107.0	4927.1
62.5°	1526.2	1543.7	1614.5	1881.8	2917.5	5570.2	7571.5	6912.7	6721.8	5494.9	5329.8
65°	1165.7	1171.8	1200.7	1292.7	1737.3	4524.7	7932.4	8295.2	8064.3	5958.9	5747.8
67.5°	939.4	934.5	974.4	1106.0	1163.4	2760.4	7511.4	9603.1	9495.1	6579.2	6168.4
69°	828.3	821.5	862.2	1015.1	1092.7	1824.8	6715.0	9900.2	9907.0	6906.6	6197.3
70°	745.4	750.0	790.3	961.1	1068.7	1432.3	5954.3	9824.5	9878.5	7029.1	6023.9
72.5°	497.8	510.0	591.0	797.9	1027.6	1083.9	3595.2	8430.6	8638.3	6753.4	5168.2
75°	280.7	289.8	386.0	601.7	968.3	1032.2	1898.9	6211.0	6411.8	5647.4	3985.4
77.5°	137.7	142.6	218.3	388.3	809.7	983.5	1077.1	4218.9	4448.2	3686.1	2254.2
80°	58.2	60.9	109.2	239.6	578.9	938.6	799.8	2596.5	2625.0	1444.1	600.5
82.5°	22.4	23.2	46.0	149.5	367.8	731.7	669.0	1231.1	1201.4	271.9	136.9
85°	2.7	3.0	16.7	89.8	204.6	376.5	543.5	530.5	491.0	54.0	70.4
87.5°	0.0	0.0	1.1	27.4	60.9	176.5	282.6	220.2	198.5	17.5	36.5
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°	2271.3	2271.3	2271.3	2271.3	2271.3	2271.3	2271.3	2271.3	2271.3	2271.3	2271.3
2.5°	2265.6	2261.8	2241.2	2211.6	2183.4	2148.4	2115.0	2094.8	2078.8	2068.2	2080.7
5°	2271.7	2254.9	2192.6	2112.7	2034.3	1946.1	1864.0	1794.4	1767.0	1736.6	1750.2
7.5°	2269.8	2238.2	2126.0	1983.8	1840.0	1691.3	1550.6	1442.2	1385.9	1330.7	1344.8
10°	2260.3	2207.0	2037.0	1826.3	1611.0	1397.3	1197.6	1045.9	961.1	884.2	895.3
12.5°	2239.3	2165.2	1932.0	1646.0	1358.1	1076.3	842.4	648.1	543.9	497.8	503.5
15°	2226.8	2124.5	1821.0	1463.5	1088.1	749.6	515.0	383.0	335.4	320.2	322.1
17.5°	2220.7	2085.3	1706.1	1254.7	812.0	477.3	332.8	293.6	283.3	280.7	281.4
20°	2214.6	2045.8	1587.8	1048.2	559.5	321.0	273.5	262.0	258.2	254.8	255.6
22.5°	2204.3	2007.7	1460.8	839.0	377.3	260.5	246.4	235.4	227.4	223.2	224.0
25°	2191.8	1967.8	1331.1	624.9	275.4	232.4	219.1	203.5	194.0	186.4	186.7
27.5°	2171.6	1918.7	1197.3	454.9	231.2	208.0	190.2	173.0	157.1	148.3	148.3
30°	2143.5	1863.2	1048.5	325.6	207.3	184.1	162.4	141.1	124.0	116.0	115.2
32.5°	2112.3	1805.4	898.3	246.8	188.3	161.6	136.9	114.5	99.3	92.8	92.4
35°	2085.7	1743.0	748.5	206.9	169.2	140.0	113.0	93.9	81.8	76.4	76.1
37.5°	2068.6	1680.6	602.4	184.8	152.1	119.8	94.7	77.6	68.8	64.7	64.3
40°	2065.9	1634.2	468.9	168.1	136.2	101.9	79.1	65.8	57.8	53.2	52.9
42.5°	2100.5	1607.6	359.8	154.0	119.8	86.3	67.3	56.3	47.9	43.4	43.0
45°	2191.4	1616.0	276.9	141.5	103.4	73.0	57.0	46.8	39.2	35.8	35.0
47.5°	2357.2	1673.8	220.2	128.9	87.9	62.0	48.7	38.8	32.3	28.9	28.5
50°	2652.4	1809.6	184.1	115.2	73.4	52.9	40.3	31.6	26.2	23.2	22.8
52.5°	3044.1	2051.5	164.3	101.9	60.9	44.9	33.1	25.1	20.5	18.3	17.9
55°	3476.1	2344.3	151.4	87.5	49.8	37.3	26.2	19.8	16.0	14.1	13.3
57.5°	3897.9	2598.0	139.2	73.4	41.5	30.4	20.9	15.6	12.6	10.6	10.3
60°	4285.5	2831.1	125.1	58.9	33.8	24.0	16.4	12.2	9.9	8.0	8.0
62.5°	4700.4	3011.4	105.7	46.0	27.8	18.3	13.3	11.0	8.0	6.8	6.5
65°	5140.1	3145.3	82.9	35.8	21.7	13.7	11.0	11.4	6.5	4.9	4.6
67.5°	5464.8	3118.6	61.2	28.1	16.7	10.6	10.6	12.2	5.7	3.8	3.4
69°	5393.3	2902.2	51.3	24.3	14.5	9.1	9.9	12.2	5.3	3.4	3.0
70°	5186.1	2662.6	45.3	21.7	12.9	8.4	9.5	11.8	4.9	3.4	3.0
72.5°	4318.9	2005.4	35.4	16.4	10.3	6.8	8.0	10.3	4.9	3.4	2.7
75°	3248.7	1283.6	27.0	11.8	7.6	5.3	6.1	7.6	4.9	3.0	2.7
77.5°	1767.7	462.9	19.4	8.0	5.3	4.2	4.2	5.7	4.6	2.3	1.5
80°	454.5	116.4	12.2	5.3	4.2	3.0	2.7	3.8	2.7	0.4	0.0
82.5°	112.2	26.2	6.5	3.8	3.0	1.1	1.1	1.9	1.1	0.0	0.0
85°	61.6	12.9	4.2	2.7	1.5	0.0	0.0	0.4	0.0	0.0	0.0
87.5°	31.6	3.8	1.1	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0
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)