

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: P386613

Luminaire Tested: GAW-SA2B-735-U-SL4

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386613
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-SA2B-735-U-SL4
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 3500K, 800mA 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: 10646.2 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

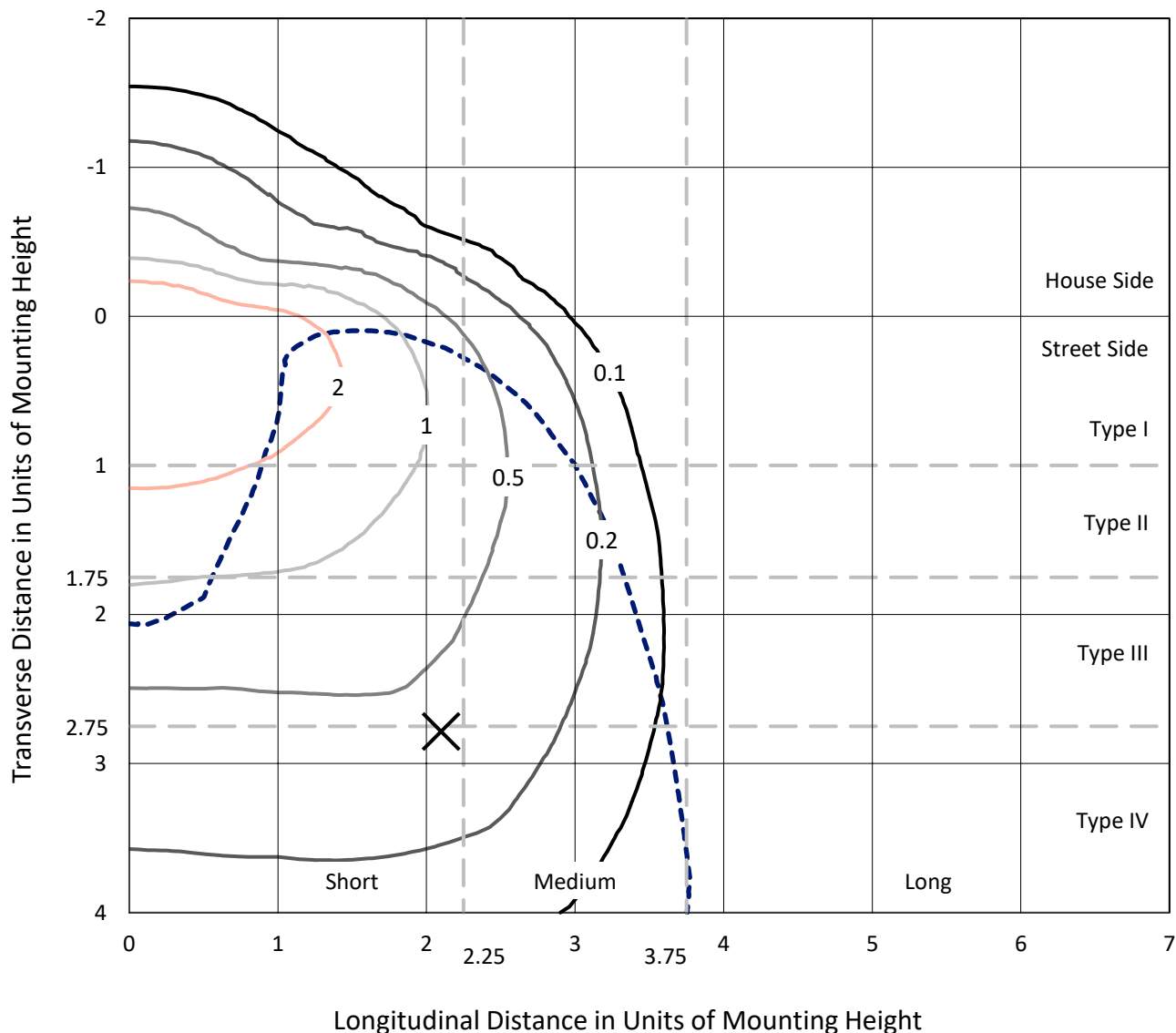
Input Watts (W): 86
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

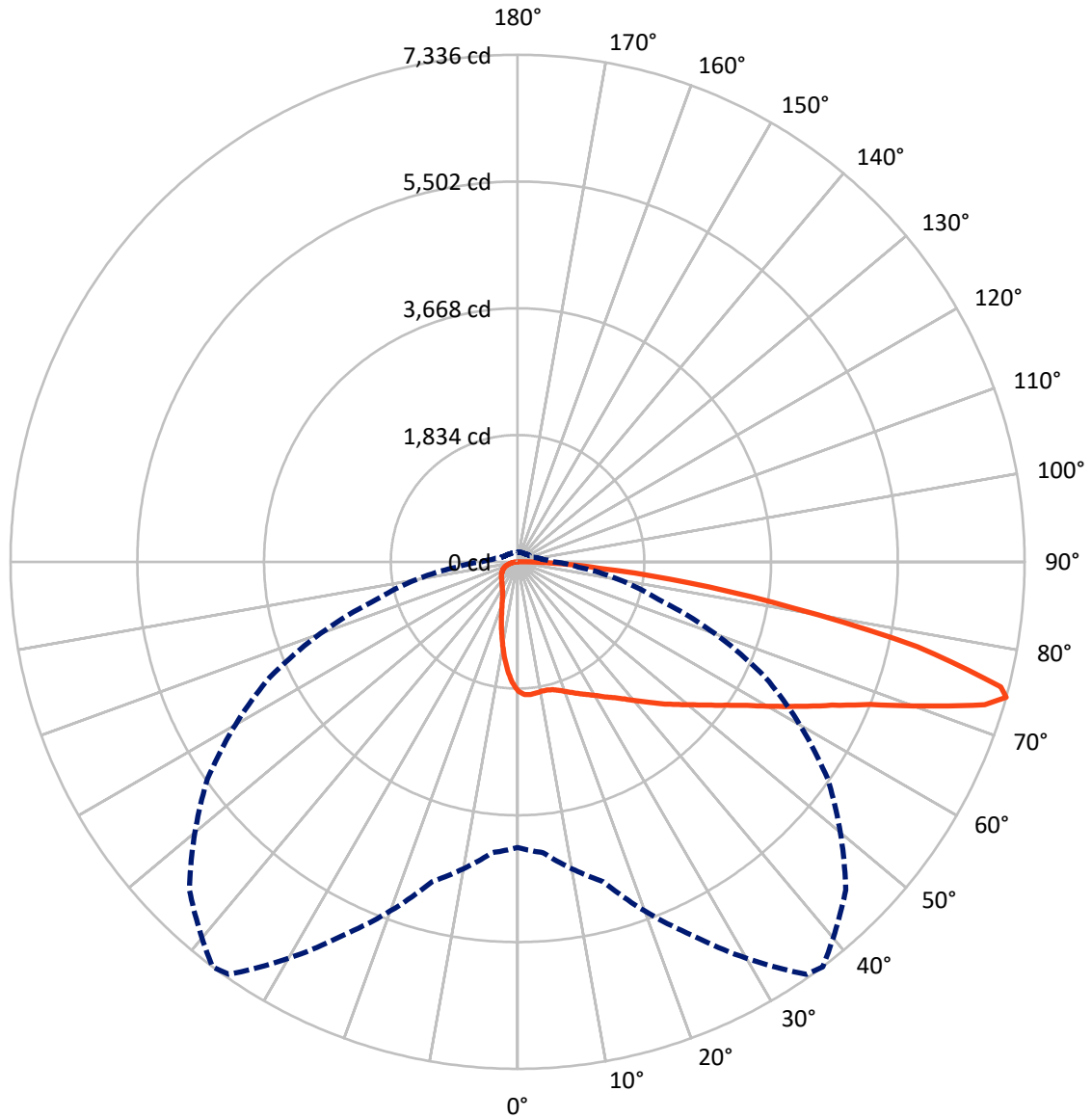
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.8 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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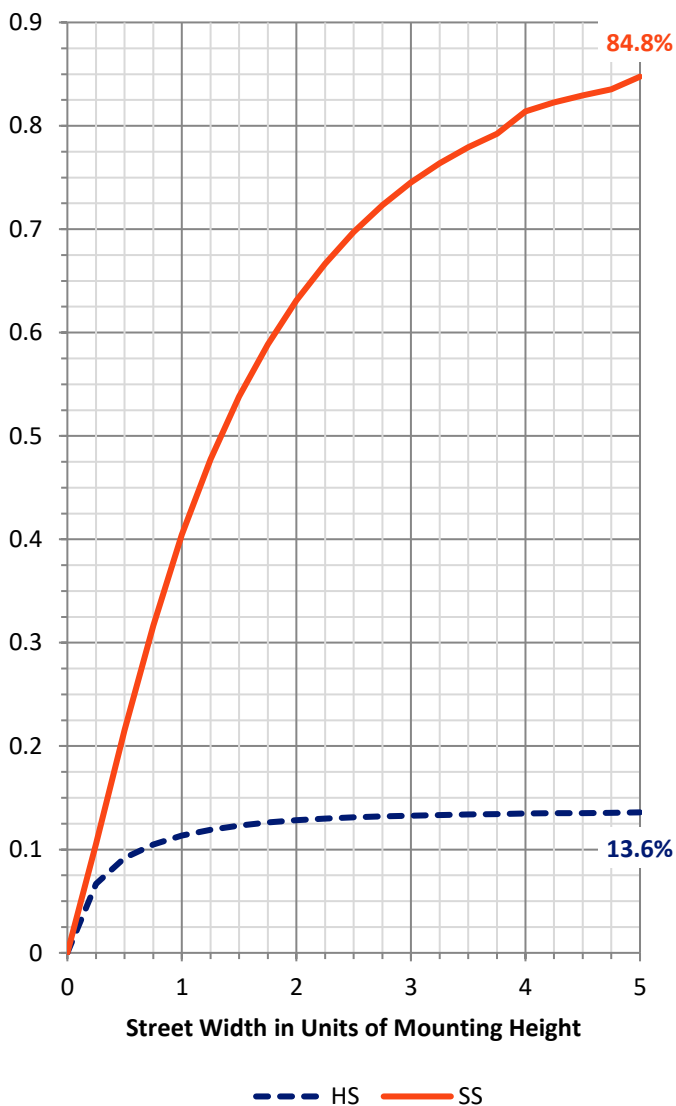
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1464.9	0.0	1464.9
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	9181.3	0.0	9181.3
	% Fixture	86.2	0.0	86.2
Total	Lumens	10646.2	0.0	10646.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.2	1.6
10°-20°	423.4	4.0
20°-30°	652.4	6.1
30°-40°	948.7	8.9
40°-50°	1396.3	13.1
50°-60°	1960.9	18.4
60°-70°	2481.8	23.3
70°-80°	2185.4	20.5
80°-90°	432.1	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°	10646.2	100.0
0°-180°	10646.2	100.0

Coefficient of Utilization



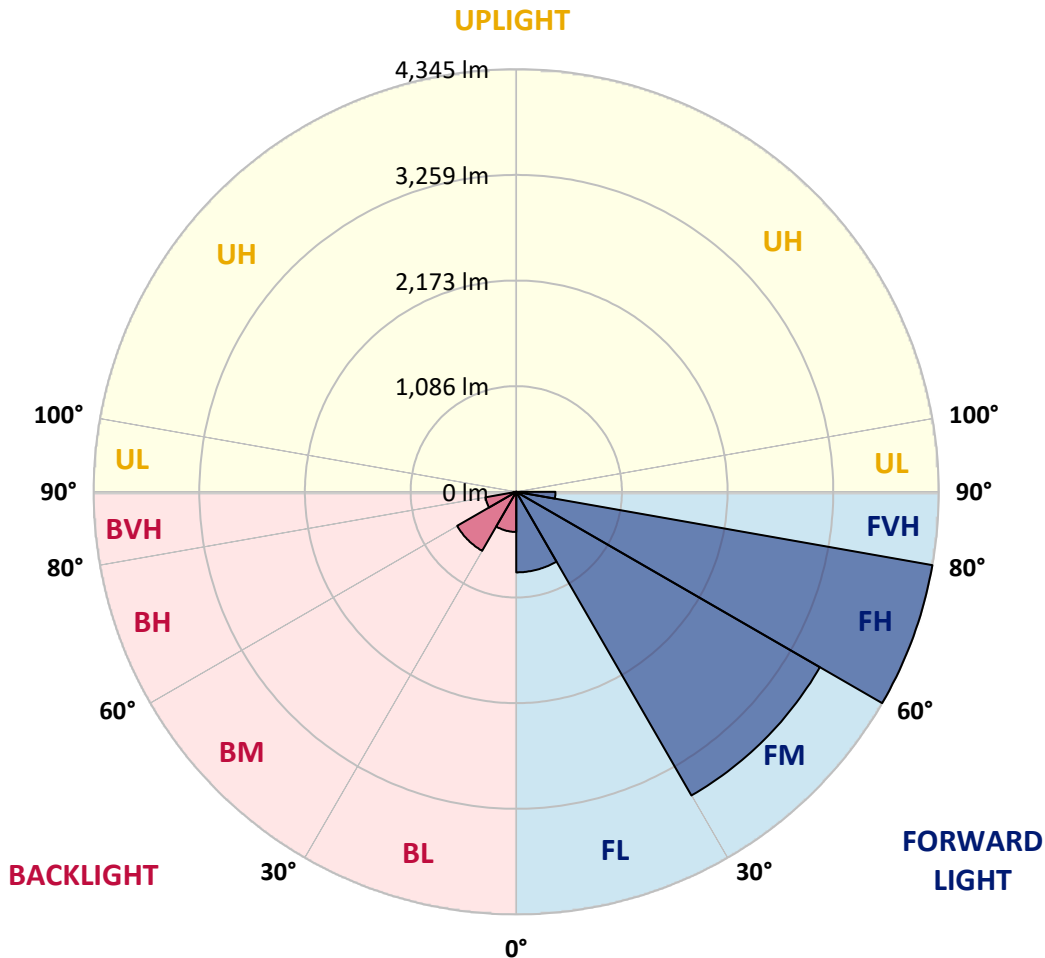
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	828.4	7.8			
FM (30°-60°)	3604.9	33.9			
FH (60°-80°)	4345.2	40.8			G2/5000
FVH (80°-90°)	402.8	3.8			G3/500
BL (0°-30°)	412.6	3.9	B1/500		
BM (30°-60°)	701.0	6.6	B1/1000		
BH (60°-80°)	322.0	3.0	B1/500		G1/500
BVH (80°-90°)	29.3	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°	1875.8	1875.8	1875.8	1875.8	1875.8	1875.8	1875.8	1875.8	1875.8	1875.8	1875.8
2.5°	1939.9	1940.3	1939.9	1936.9	1929.8	1923.8	1918.9	1911.9	1896.1	1884.0	1866.1
5°	1958.4	1956.1	1954.6	1949.0	1937.7	1930.9	1921.5	1908.1	1882.2	1858.2	1828.9
7.5°	1949.7	1947.1	1943.7	1936.9	1924.2	1918.5	1905.5	1887.8	1856.7	1825.1	1783.2
10°	1923.0	1922.3	1920.8	1919.3	1908.5	1904.0	1891.9	1873.2	1842.4	1804.2	1755.1
12.5°	1893.4	1895.3	1901.3	1909.2	1904.3	1902.1	1894.6	1881.8	1850.3	1809.1	1749.8
15°	1874.7	1879.9	1896.1	1916.6	1920.8	1920.0	1918.1	1910.0	1876.5	1830.8	1761.8
17.5°	1868.3	1876.9	1907.7	1941.8	1953.8	1956.5	1957.2	1942.9	1905.8	1857.5	1774.1
20°	1879.9	1890.8	1935.8	1982.7	2001.8	2003.4	2000.0	1975.2	1933.6	1880.3	1780.9
22.5°	1915.1	1924.9	1981.2	2034.1	2055.8	2058.0	2048.0	2010.4	1962.8	1907.3	1790.3
25°	1983.1	1995.1	2051.4	2104.1	2115.4	2115.8	2101.2	2054.7	2001.1	1945.2	1810.6
27.5°	2071.6	2083.6	2134.2	2186.0	2180.0	2176.6	2156.7	2110.2	2051.0	1997.3	1846.6
30°	2170.2	2183.3	2231.3	2268.1	2253.8	2247.0	2231.0	2170.9	2120.3	2068.5	1901.7
32.5°	2272.2	2284.2	2326.2	2351.3	2333.4	2330.4	2305.9	2251.2	2210.7	2177.3	1991.0
35°	2376.9	2385.5	2426.7	2440.9	2417.0	2416.2	2409.5	2359.2	2333.7	2349.4	2120.7
37.5°	2483.7	2485.9	2521.2	2522.0	2514.9	2517.9	2525.0	2493.4	2500.6	2549.7	2289.5
40°	2578.9	2584.9	2610.5	2618.4	2630.7	2641.2	2676.8	2656.2	2711.4	2798.4	2499.4
42.5°	2649.5	2661.1	2702.0	2722.2	2762.4	2778.8	2829.1	2848.2	2959.2	3089.8	2749.2
45°	2709.1	2727.1	2792.7	2834.3	2902.3	2931.1	3003.1	3067.2	3239.3	3405.9	3012.1
47.5°	2773.6	2796.5	2878.6	2958.1	3050.3	3083.0	3213.9	3309.9	3538.2	3723.9	3260.0
50°	2868.4	2886.1	2966.3	3091.3	3206.3	3248.3	3429.4	3567.2	3842.0	4026.9	3474.8
52.5°	3000.9	2994.1	3062.0	3237.2	3391.6	3443.3	3659.8	3840.9	4149.9	4301.0	3656.4
55°	3134.0	3122.7	3170.4	3389.7	3607.6	3662.0	3913.2	4115.8	4442.8	4547.8	3795.5
57.5°	3282.1	3260.7	3300.8	3561.9	3853.6	3918.5	4197.1	4407.9	4730.8	4747.3	3884.0
60°	3434.7	3405.9	3450.9	3775.2	4166.0	4242.5	4529.4	4692.9	5002.3	4907.0	3912.5
62.5°	3568.2	3548.0	3617.3	4013.4	4518.1	4602.2	4855.6	4995.9	5270.0	4973.4	3809.7
65°	3684.9	3688.2	3808.2	4281.1	4910.8	5000.4	5229.9	5369.4	5480.8	4934.1	3569.3
67.5°	3824.0	3843.2	4047.8	4633.7	5405.1	5503.3	5774.5	5776.7	5598.6	4703.0	3096.1
70°	4026.9	4066.3	4377.5	5122.7	6107.8	6242.8	6452.0	6016.0	5433.2	4076.8	2436.0
72.5°	4206.9	4280.3	4728.2	5682.2	6964.4	7066.7	6848.5	5878.0	4742.1	3055.2	1517.7
74°	4133.8	4224.9	4791.9	5957.8	7286.9	7336.0	6714.6	5475.2	3953.7	2115.8	882.0
75°	3976.3	4075.3	4698.9	5955.2	7246.0	7218.6	6391.4	5015.0	3256.2	1443.0	586.9
77.5°	3209.0	3313.6	3959.4	5103.9	5941.3	5915.5	4909.6	3364.3	1426.2	473.3	298.2
80°	1865.7	1945.6	2457.8	3241.2	4006.2	4053.1	3228.9	1664.7	561.0	265.8	202.2
82.5°	828.7	883.9	1187.3	1654.6	2417.7	2478.1	1690.9	872.3	346.5	161.7	121.5
85°	543.7	584.7	720.8	787.9	1151.3	1192.6	827.6	679.2	228.7	88.9	89.2
87.5°	391.2	430.5	535.5	467.6	528.4	500.2	450.3	628.5	91.9	50.6	30.0
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°	1875.8	1875.8	1875.8	1875.8	1875.8	1875.8	1875.8	1875.8	1875.8	1875.8	1875.8
2.5°	1858.2	1852.2	1838.7	1813.2	1798.9	1786.9	1767.1	1755.4	1750.2	1749.8	1752.1
5°	1812.1	1798.2	1763.3	1720.6	1686.4	1655.3	1616.7	1593.4	1577.0	1567.2	1569.8
7.5°	1758.5	1736.7	1681.9	1613.7	1558.9	1498.5	1439.0	1403.3	1375.6	1354.9	1358.6
10°	1721.7	1691.7	1611.8	1513.6	1422.4	1334.7	1252.5	1203.5	1164.4	1134.4	1136.7
12.5°	1709.3	1668.8	1558.2	1426.9	1299.1	1179.0	1071.8	996.4	956.3	922.1	924.7
15°	1711.2	1656.8	1513.2	1348.9	1188.1	1036.9	906.8	818.7	764.3	740.6	741.0
17.5°	1712.7	1642.9	1465.9	1265.3	1078.1	904.2	762.8	673.5	622.2	600.4	600.7
20°	1707.8	1620.5	1407.4	1169.3	963.4	782.2	645.4	569.6	530.7	513.8	513.8
22.5°	1701.4	1593.8	1341.5	1072.9	850.2	676.6	561.4	503.6	481.2	469.9	469.5
25°	1704.4	1574.0	1273.9	973.9	745.9	592.1	505.5	467.3	452.2	445.2	444.8
27.5°	1720.6	1564.6	1211.6	875.2	654.8	528.8	468.0	441.0	431.3	426.8	426.8
30°	1749.8	1564.6	1146.8	791.3	579.0	481.9	439.2	420.8	414.0	411.0	411.0
32.5°	1800.8	1573.2	1084.2	708.0	518.6	445.2	415.1	402.7	397.6	396.0	396.0
35°	1888.6	1602.4	1023.0	629.3	469.9	415.1	392.3	385.2	381.4	381.0	382.1
37.5°	2011.9	1662.1	965.7	571.2	435.4	390.8	373.1	367.5	365.2	367.1	368.6
40°	2167.2	1743.0	913.6	518.6	409.1	371.2	355.5	351.8	350.7	353.3	355.5
42.5°	2354.7	1852.6	870.8	480.8	388.9	354.7	340.5	336.0	334.9	337.9	340.9
45°	2557.6	1970.3	840.8	452.6	373.1	342.4	327.4	322.5	320.2	321.7	325.1
47.5°	2742.1	2081.7	828.7	432.8	358.1	331.9	315.7	309.7	306.1	305.3	307.8
50°	2897.7	2164.6	834.4	420.8	346.2	320.2	304.6	297.8	292.2	288.8	290.6
52.5°	3010.9	2216.7	839.6	415.5	336.8	307.5	292.2	285.8	278.2	272.6	272.6
55°	3093.1	2228.7	828.0	411.4	329.6	293.7	278.2	272.2	264.7	258.4	257.7
57.5°	3125.4	2195.0	784.9	405.3	324.7	280.5	263.6	259.2	252.8	245.3	244.9
60°	3081.9	2090.7	701.6	392.7	318.4	269.6	249.0	246.0	243.0	235.9	235.5
62.5°	2907.0	1862.0	594.0	366.7	305.7	258.1	235.5	237.0	237.4	232.5	231.7
65°	2590.2	1547.7	489.0	333.0	286.5	244.1	221.6	228.7	232.9	232.1	231.0
67.5°	2129.7	1204.6	414.4	297.4	261.3	225.0	206.7	214.8	218.2	220.9	220.1
70°	1580.7	849.4	342.8	259.9	231.0	202.5	187.1	191.3	189.0	192.0	193.1
72.5°	881.2	509.6	279.4	222.4	199.5	176.2	165.4	164.7	159.8	159.8	159.8
74°	528.8	373.9	245.7	199.2	180.4	159.0	149.6	146.3	141.8	142.1	141.8
75°	425.3	321.4	225.4	183.7	166.8	148.9	139.5	135.0	131.6	131.6	131.2
77.5°	268.5	244.1	181.5	146.3	133.5	122.6	116.3	110.3	110.3	109.9	109.5
80°	202.9	194.3	141.4	110.7	102.4	94.1	90.0	87.4	87.4	88.5	88.1
82.5°	139.1	146.3	99.4	77.2	73.1	67.2	66.4	66.8	65.7	64.2	63.8
85°	101.6	109.9	67.2	48.8	44.6	40.9	43.9	45.4	43.5	40.1	38.6
87.5°	39.0	72.0	36.0	20.3	18.8	16.2	18.8	19.5	21.0	16.5	16.9
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)