

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P509446

Luminaire Tested: **VERD-G-CA2-100-727-U-T3-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509446
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-5)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-CA2-100-727-U-T3-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 930mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11837 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

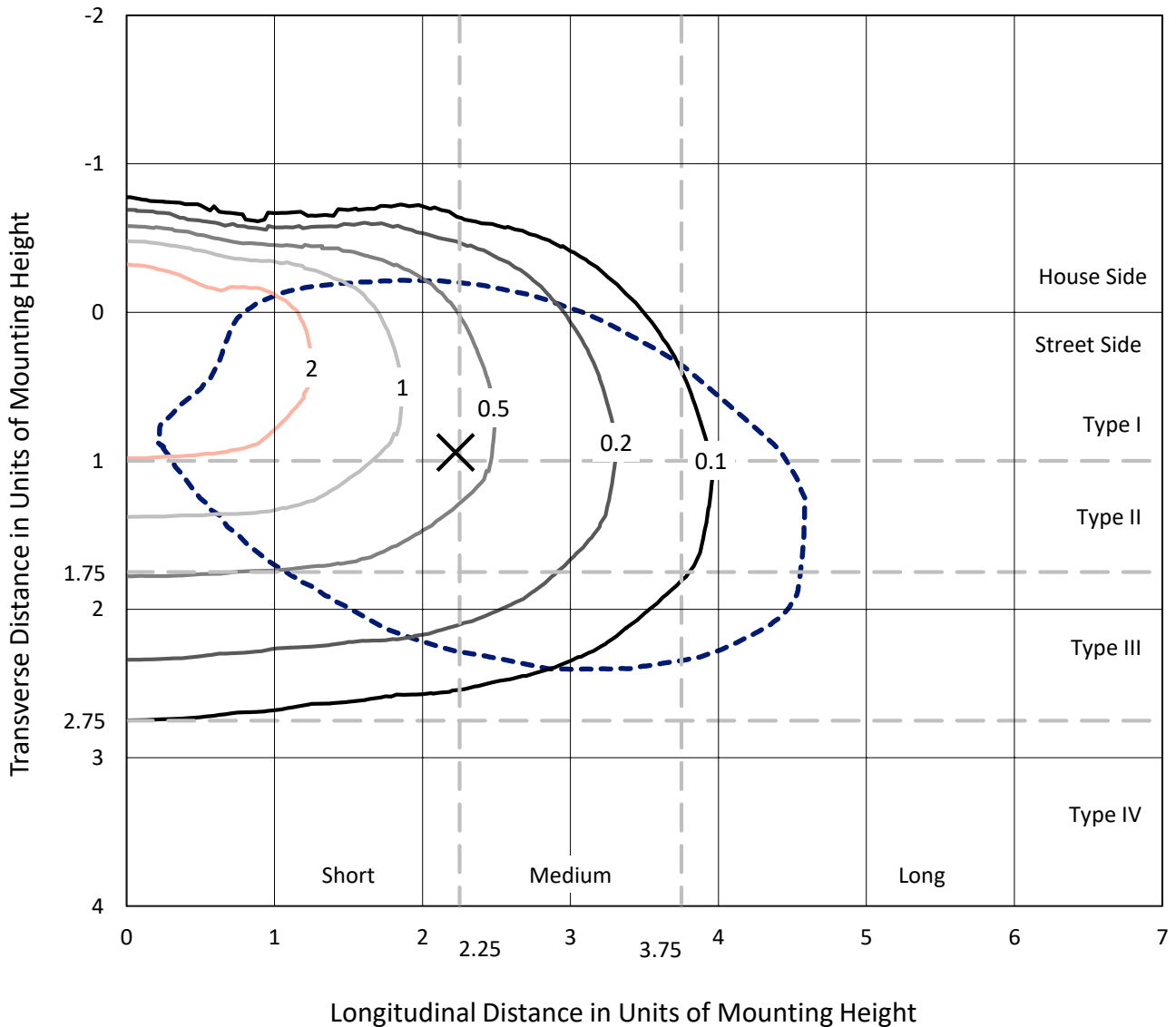
Input Watts (W): 102.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

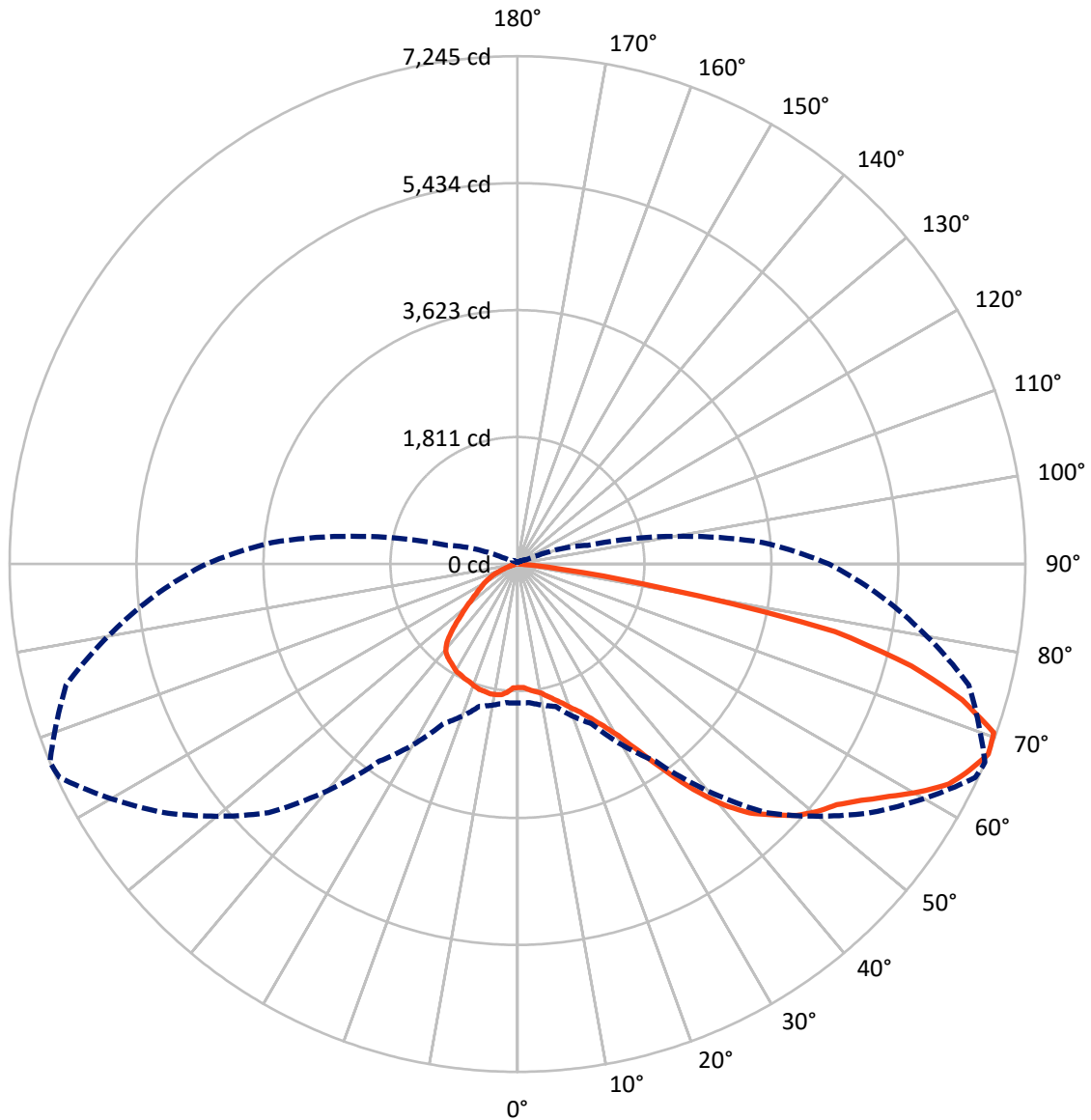
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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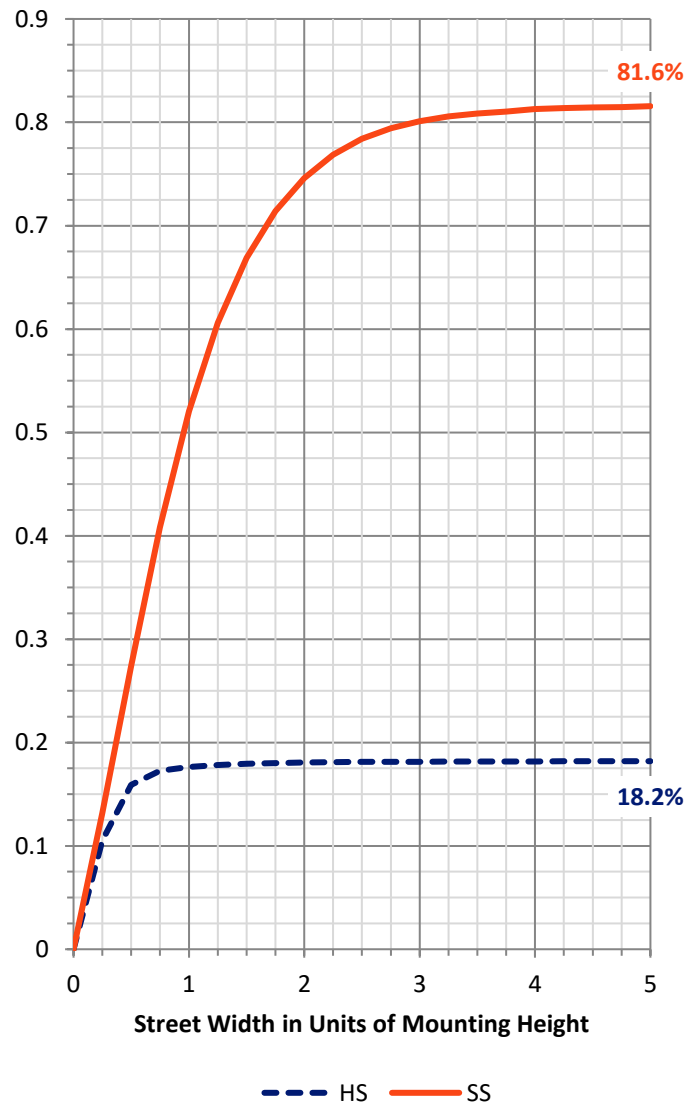
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2178.7	0.0	2178.7
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	9658.3	0.0	9658.3
	% Fixture	81.6	0.0	81.6
Total	Lumens	11837.0	0.0	11837.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.2	1.5
10°-20°	554.1	4.7
20°-30°	944.6	8.0
30°-40°	1440.8	12.2
40°-50°	2031.1	17.2
50°-60°	2455.0	20.7
60°-70°	2585.6	21.8
70°-80°	1538.1	13.0
80°-90°	110.6	0.9
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°	11837.0	100.0
0°-180°	11837.0	100.0



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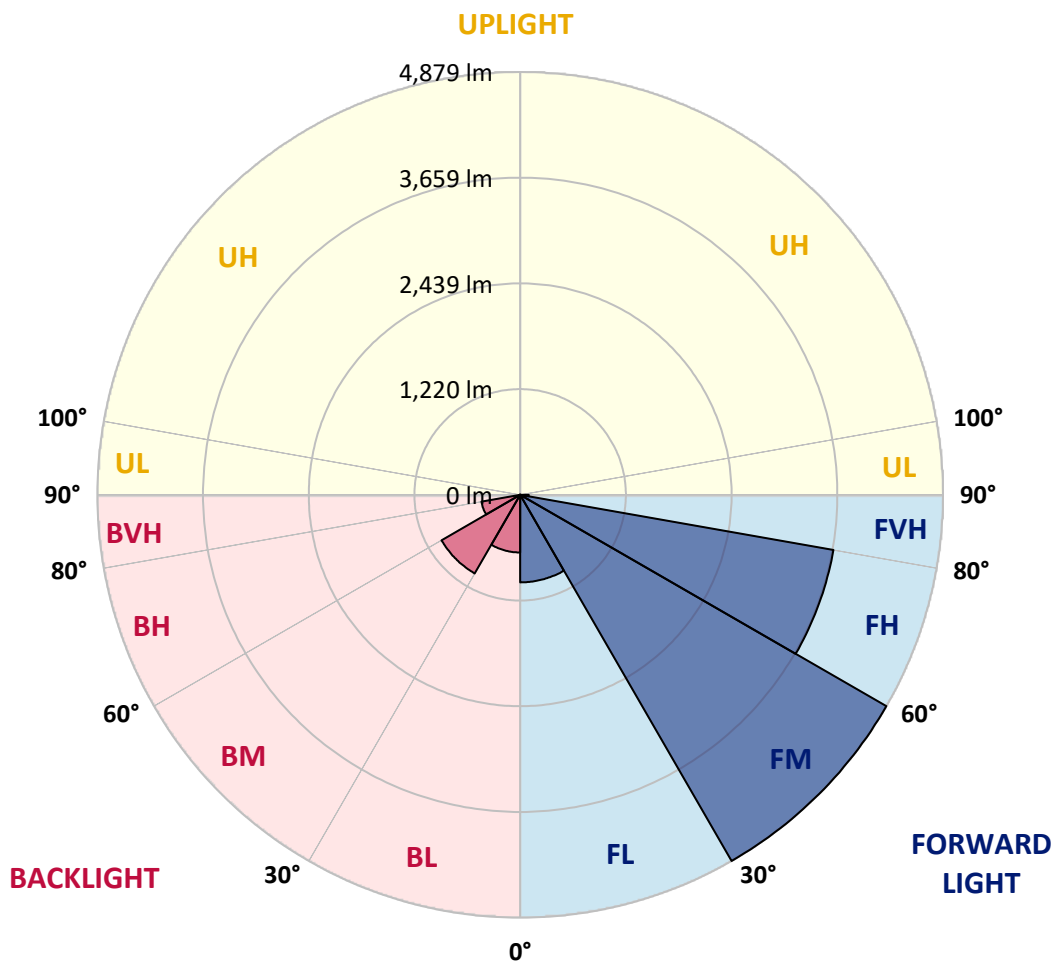
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1010.6	8.5			
FM (30°-60°)	4878.7	41.2			
FH (60°-80°)	3670.1	31.0			G2/5000
FVH (80°-90°)	98.9	0.8			G1/100
BL (0°-30°)	665.4	5.6	B2/1000		
BM (30°-60°)	1048.2	8.9	B2/2500		
BH (60°-80°)	453.6	3.8	B1/500		G1/500
BVH (80°-90°)	11.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1762.2	1762.2	1762.2	1762.2	1762.2	1762.2	1762.2	1762.2	1762.2	1762.2	1762.2
2.5°	1799.4	1806.2	1792.6	1789.3	1771.5	1774.0	1770.6	1762.2	1765.5	1758.8	1763.0
5°	1868.9	1851.1	1846.0	1835.8	1819.7	1810.4	1796.9	1792.6	1802.0	1794.3	1796.0
7.5°	1942.5	1945.9	1923.0	1903.6	1874.8	1868.0	1844.3	1829.9	1839.2	1829.1	1835.0
10°	2034.8	2039.9	2015.3	1989.1	1964.5	1929.0	1899.3	1876.5	1873.9	1868.9	1877.3
12.5°	2155.9	2155.1	2128.0	2095.8	2047.5	2023.0	1966.2	1934.1	1938.3	1919.7	1918.0
15°	2296.5	2284.6	2253.3	2220.3	2160.1	2111.9	2043.3	2003.5	2010.3	1989.1	1984.0
17.5°	2433.7	2421.8	2397.2	2360.8	2305.8	2231.3	2147.4	2089.9	2088.2	2078.0	2047.5
20°	2574.2	2579.3	2546.3	2513.3	2458.2	2358.3	2263.5	2188.9	2190.6	2172.8	2113.6
22.5°	2738.5	2729.2	2689.4	2674.1	2611.5	2502.2	2396.4	2310.9	2293.9	2290.5	2188.1
25°	2895.2	2889.2	2852.8	2835.0	2782.5	2682.6	2545.4	2443.0	2440.4	2429.4	2284.6
27.5°	3019.6	3026.4	3023.0	3010.3	2952.7	2854.5	2734.3	2611.5	2613.2	2597.1	2409.9
30°	3196.6	3176.3	3168.7	3178.8	3173.7	3067.9	2940.0	2851.1	2845.2	2803.7	2568.3
32.5°	3299.9	3310.1	3320.2	3355.8	3356.6	3277.9	3194.9	3152.6	3176.3	3183.1	2962.0
35°	3394.8	3394.8	3453.2	3542.9	3574.3	3547.2	3511.6	3565.0	3611.5	3705.5	3446.4
37.5°	3479.4	3504.0	3559.0	3671.7	3774.1	3800.4	3878.3	4024.8	4081.5	4167.0	3854.6
40°	3550.6	3568.3	3638.6	3776.7	3952.8	4073.0	4218.7	4451.5	4510.8	4494.7	4081.5
42.5°	3471.8	3500.6	3613.2	3896.9	4118.8	4344.8	4535.4	4786.9	4858.8	4709.8	4320.3
45°	3429.5	3440.5	3558.2	3880.0	4240.7	4620.0	4836.0	5105.3	5105.3	4938.4	4488.8
47.5°	3344.8	3364.3	3504.0	3857.9	4370.2	4849.5	5068.0	5342.4	5360.1	5154.4	4656.5
50°	3259.3	3283.8	3442.2	3819.0	4443.1	5079.9	5265.3	5540.5	5547.3	5302.6	4804.6
52.5°	3174.6	3187.3	3364.3	3793.6	4523.5	5198.4	5435.5	5701.4	5704.8	5524.4	4968.1
55°	3023.0	3054.3	3237.3	3700.4	4519.3	5252.6	5524.4	5916.5	5949.5	5765.7	5129.0
57.5°	2880.8	2890.1	3089.9	3565.8	4450.7	5315.3	5715.8	6224.7	6256.9	5985.1	5248.4
60°	2691.1	2701.2	2916.3	3405.8	4349.1	5377.9	5958.8	6584.6	6599.0	6215.4	5338.1
62.5°	2492.9	2527.6	2704.6	3160.2	4138.2	5388.9	6164.6	6916.5	6910.6	6415.2	5397.4
65°	2260.1	2272.8	2443.0	2873.1	3815.6	5305.1	6249.3	7077.4	7091.8	6555.8	5358.4
67.5°	1980.6	1985.7	2102.6	2515.8	3433.7	5016.3	6179.0	7208.7	7245.1	6665.9	5195.9
70°	1564.9	1572.5	1680.0	2072.9	2891.8	4574.3	6060.4	7223.9	7208.7	6566.8	4948.6
72.5°	1090.7	1079.6	1184.6	1453.9	2189.8	3762.3	5488.0	6609.1	6636.2	6075.7	4431.2
75°	522.5	525.9	734.2	894.2	1229.5	2687.7	4567.5	5691.2	5804.7	5294.9	3609.8
77.5°	88.9	90.6	193.9	352.3	495.4	1127.9	3028.9	4532.8	4629.4	4156.0	2443.8
80°	71.1	71.1	94.8	189.7	262.5	467.4	1147.4	2009.4	2114.4	1882.4	901.0
82.5°	48.3	50.8	67.7	110.9	93.1	182.9	416.6	635.9	652.9	591.9	370.0
85°	27.1	27.9	34.7	44.9	39.0	67.7	85.5	87.2	92.3	72.0	55.0
87.5°	3.4	7.6	7.6	7.6	3.4	3.4	2.5	2.5	3.4	2.5	2.5
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°	1762.2	1762.2	1762.2	1762.2	1762.2	1762.2	1762.2	1762.2	1762.2	1762.2	1762.2
2.5°	1760.5	1750.3	1772.3	1768.1	1783.3	1780.8	1793.5	1800.3	1814.7	1833.3	1831.6
5°	1797.7	1796.9	1823.1	1835.8	1849.4	1862.1	1862.9	1875.6	1888.3	1916.3	1915.4
7.5°	1833.3	1840.9	1878.2	1879.0	1884.1	1893.4	1880.7	1884.9	1888.3	1898.5	1901.9
10°	1874.8	1889.2	1890.0	1886.6	1870.5	1869.7	1840.9	1844.3	1829.1	1840.9	1835.0
12.5°	1928.1	1916.3	1909.5	1886.6	1862.1	1829.1	1802.0	1764.7	1756.2	1756.2	1758.8
15°	1980.6	1962.8	1904.4	1868.0	1823.1	1770.6	1726.6	1684.3	1663.1	1653.8	1652.1
17.5°	2026.4	1989.1	1906.1	1858.7	1774.0	1697.0	1630.9	1563.2	1530.1	1509.0	1505.6
20°	2063.6	2023.8	1911.2	1828.2	1720.7	1607.2	1507.3	1421.7	1356.5	1308.3	1313.4
22.5°	2126.3	2062.8	1907.8	1791.8	1658.8	1511.5	1360.8	1243.1	1133.8	1106.7	1114.4
25°	2201.6	2118.7	1927.3	1769.8	1586.9	1391.3	1193.1	1056.8	939.9	902.7	905.2
27.5°	2288.9	2186.4	1949.3	1733.4	1512.4	1243.1	1004.3	835.8	742.6	669.0	663.0
30°	2427.7	2278.7	1973.0	1709.7	1408.2	1078.0	798.5	623.2	506.4	466.6	466.6
32.5°	2753.7	2465.8	2011.1	1652.9	1271.0	893.4	582.6	408.1	304.8	269.3	270.1
35°	3167.8	2843.5	2097.5	1583.5	1109.3	677.4	359.9	226.9	178.7	160.9	159.2
37.5°	3563.3	3190.7	2282.1	1502.2	905.2	429.3	202.4	139.7	121.9	121.1	121.9
40°	3807.1	3465.0	2467.5	1393.8	661.3	236.3	131.3	114.3	111.8	109.2	109.2
42.5°	4032.4	3653.9	2608.1	1227.8	394.6	143.1	115.2	104.2	102.5	98.2	98.2
45°	4215.3	3789.4	2619.1	1006.8	209.2	127.0	105.8	94.8	91.5	88.9	88.1
47.5°	4388.9	3921.5	2579.3	771.4	149.0	117.7	99.1	87.2	83.0	84.7	83.8
50°	4505.7	4053.6	2470.9	606.3	142.3	109.2	91.5	79.6	77.9	81.3	80.4
52.5°	4631.9	4161.9	2260.1	471.7	132.1	100.8	83.8	74.5	71.1	73.7	74.5
55°	4731.8	4160.2	2105.1	368.4	125.3	94.0	78.8	70.3	64.4	64.4	63.5
57.5°	4780.9	4120.4	1980.6	289.6	117.7	87.2	73.7	61.8	55.0	53.3	52.5
60°	4778.4	4081.5	1835.8	237.9	110.1	79.6	66.0	52.5	45.7	42.3	42.3
62.5°	4751.3	3990.0	1606.3	204.9	102.5	73.7	55.0	43.2	38.1	34.7	35.6
65°	4681.9	3813.9	1324.4	174.4	94.8	71.1	46.6	38.1	33.0	29.6	29.6
67.5°	4441.4	3518.4	1033.1	146.5	87.2	59.3	40.6	32.2	27.9	24.6	24.6
70°	4101.0	3067.9	680.0	123.6	77.9	51.7	36.4	27.9	23.7	20.3	19.5
72.5°	3495.5	2451.4	345.5	105.8	66.9	45.7	32.2	24.6	20.3	16.9	16.1
75°	2680.9	1651.2	215.1	84.7	52.5	40.6	28.8	22.0	16.9	12.7	11.9
77.5°	1598.7	664.7	152.4	59.3	35.6	32.2	23.7	17.8	13.5	9.3	9.3
80°	504.7	293.8	103.3	40.6	22.9	22.0	17.8	12.7	9.3	6.8	6.8
82.5°	285.4	186.3	69.4	27.1	16.1	14.4	10.2	7.6	5.9	5.1	5.1
85°	47.4	37.3	21.2	10.2	7.6	6.8	4.2	2.5	1.7	0.8	1.7
87.5°	2.5	2.5	3.4	3.4	3.4	2.5	1.7	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)