

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: P509494

Luminaire Tested: **VERD-G-CA2-110-727-U-T3-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509494
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-CA2-110-727-U-T3-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1020mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12868 lumens
Efficiency: N/A
Efficacy: 113.7 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

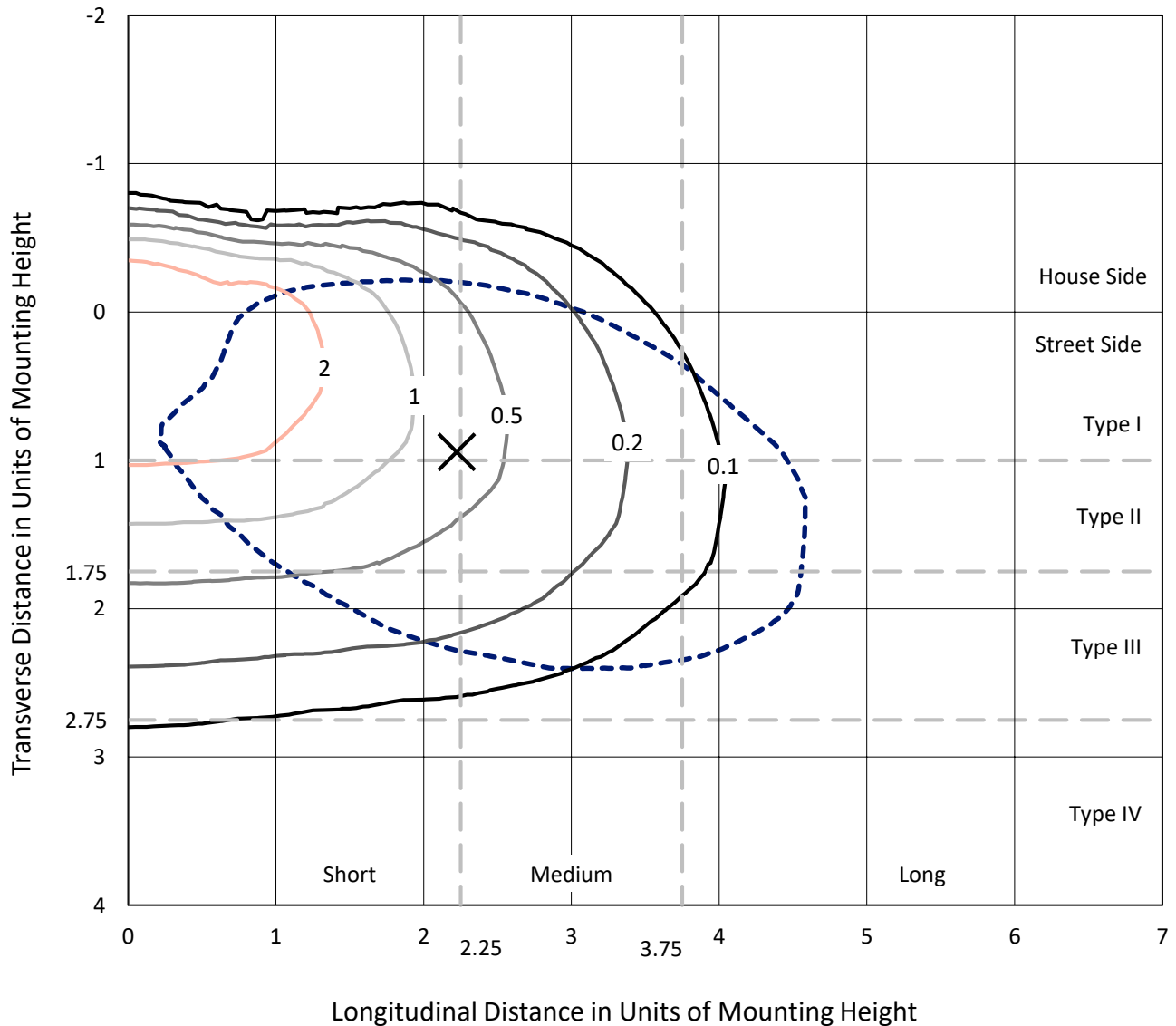
Input Watts (W): 113.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P509494
 CATALOG NUMBER: VERD-G-CA2-110-727-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

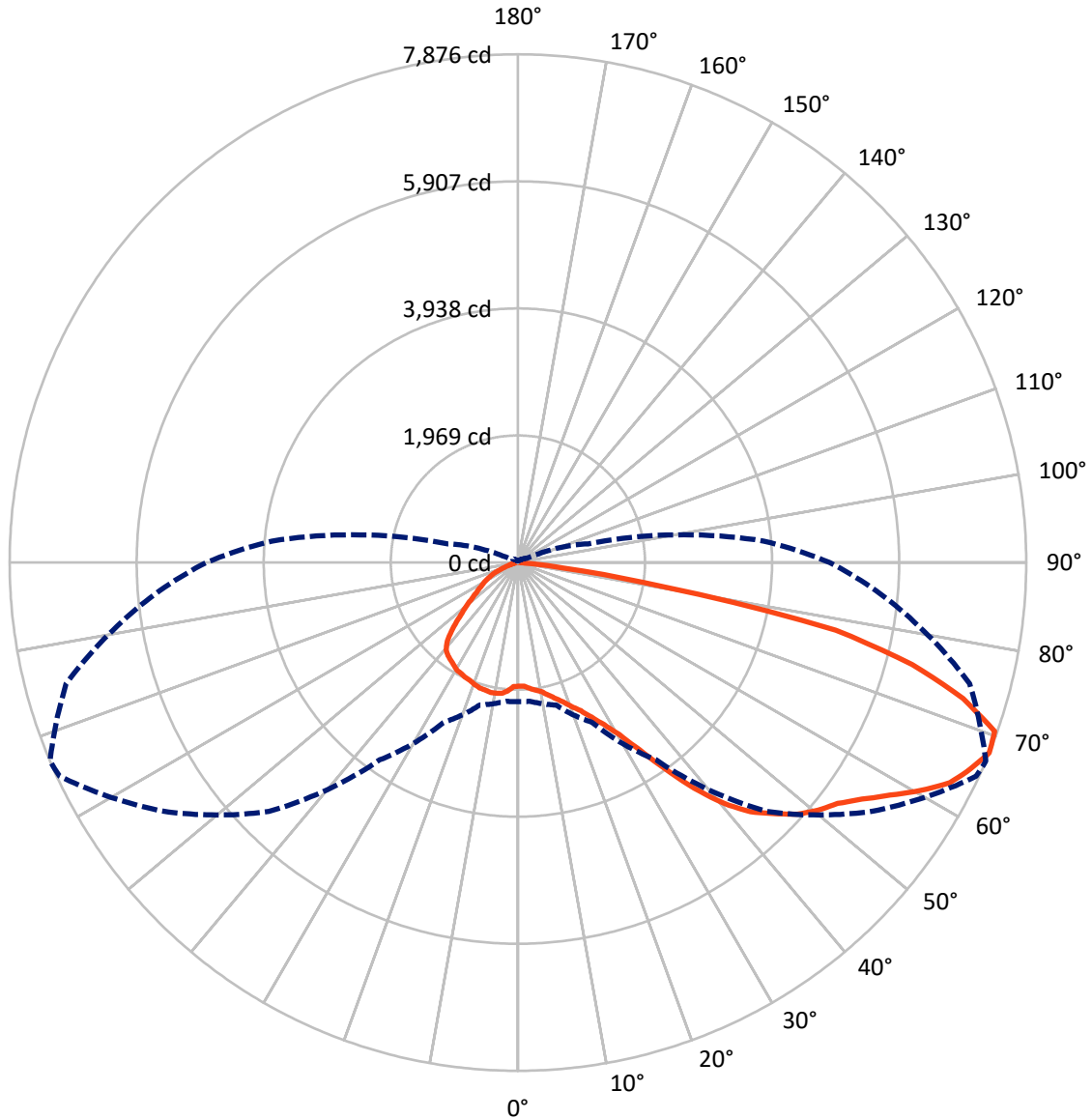
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type III - Short - N/A

REPORT NUMBER: P509494
CATALOG NUMBER: VERD-G-CA2-110-727-U-T3-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P509494

CATALOG NUMBER: VERD-G-CA2-110-727-U-T3-HSS

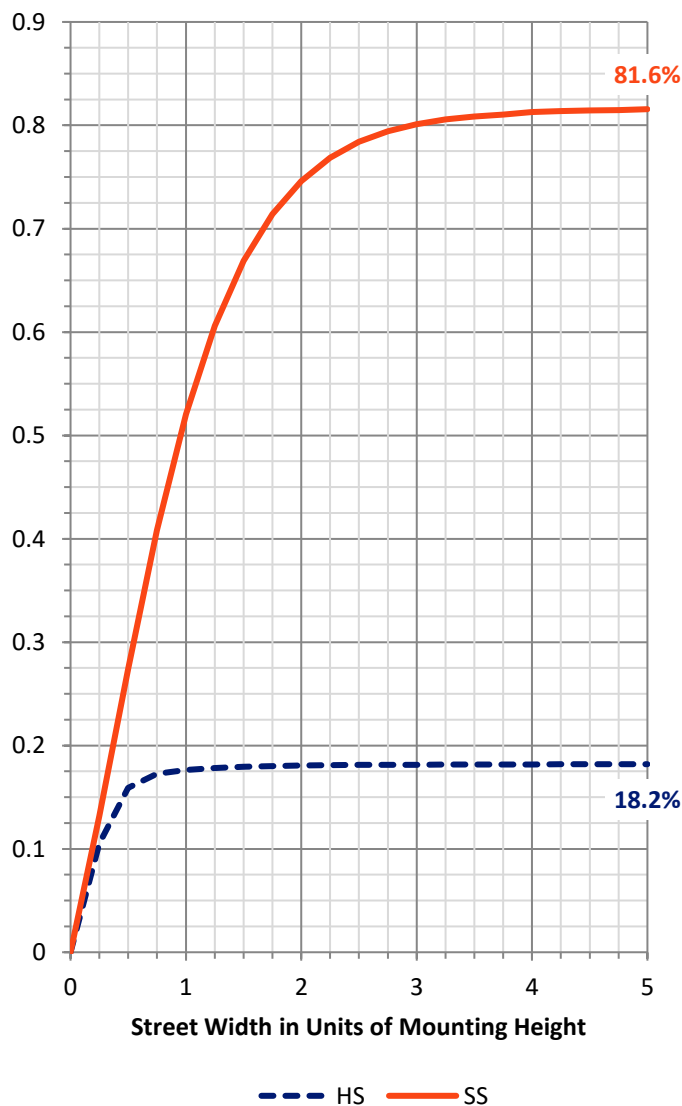
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2368.5	0.0	2368.5
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	10499.5	0.0	10499.5
	% Fixture	81.6	0.0	81.6
Total	Lumens	12868.0	0.0	12868.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.7	1.5
10°-20°	602.3	4.7
20°-30°	1026.9	8.0
30°-40°	1566.3	12.2
40°-50°	2208.0	17.2
50°-60°	2668.8	20.7
60°-70°	2810.8	21.8
70°-80°	1672.0	13.0
80°-90°	120.2	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°	12868.0	100.0
0°-180°	12868.0	100.0

Coefficient of Utilization



REPORT NUMBER: P509494

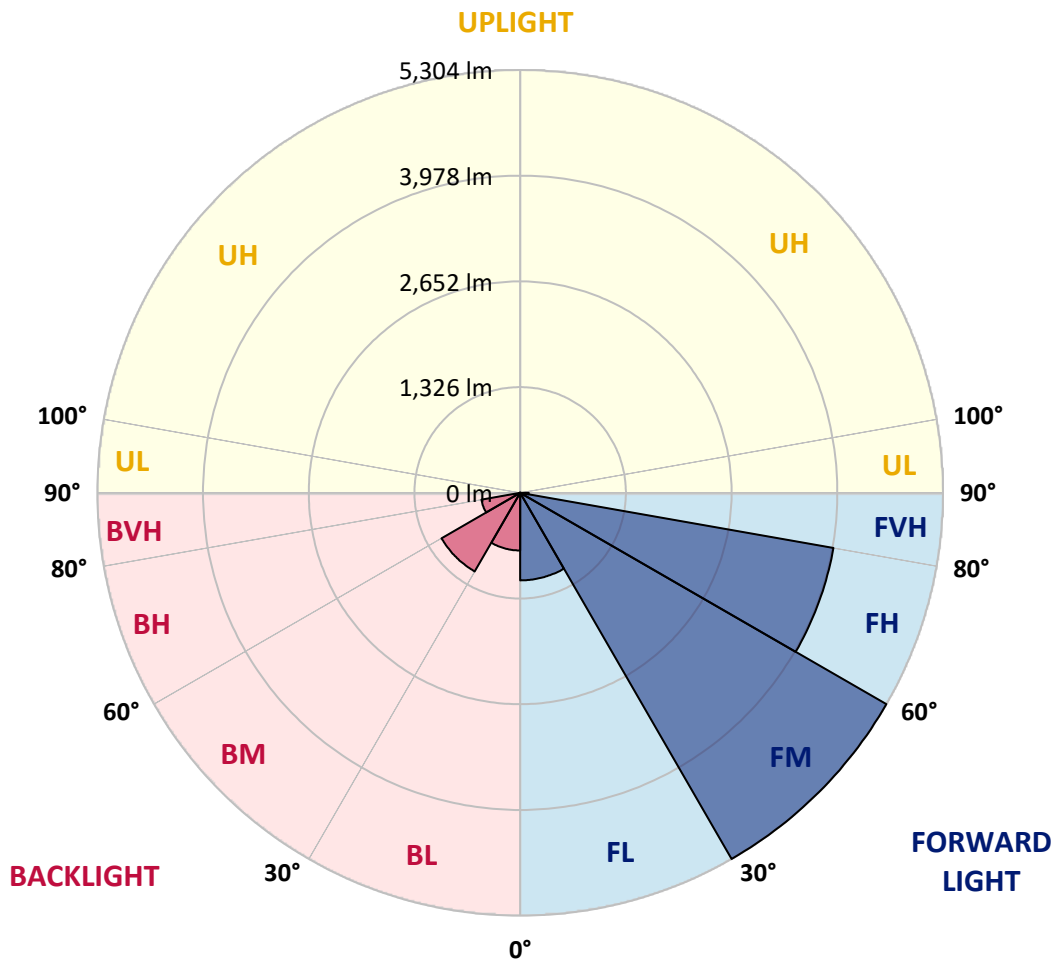
CATALOG NUMBER: VERD-G-CA2-110-727-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1098.6	8.5			
FM (30°-60°)	5303.6	41.2			
FH (60°-80°)	3989.7	31.0			G2/5000
FVH (80°-90°)	107.6	0.8			G2/225
BL (0°-30°)	723.3	5.6	B2/1000		
BM (30°-60°)	1139.5	8.9	B2/2500		
BH (60°-80°)	493.1	3.8	B1/500		G1/500
BVH (80°-90°)	12.6	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





REPORT NUMBER: P509494

CATALOG NUMBER: VERD-G-CA2-110-727-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1915.6	1915.6	1915.6	1915.6	1915.6	1915.6	1915.6	1915.6	1915.6	1915.6	1915.6
2.5°	1956.1	1963.5	1948.8	1945.1	1925.8	1928.5	1924.8	1915.6	1919.3	1912.0	1916.6
5°	2031.6	2012.3	2006.8	1995.7	1978.2	1968.1	1953.4	1948.8	1958.9	1950.6	1952.5
7.5°	2111.7	2115.4	2090.5	2069.4	2038.1	2030.7	2004.9	1989.3	1999.4	1988.4	1994.8
10°	2212.1	2217.6	2190.9	2162.3	2135.6	2097.0	2064.8	2039.9	2037.1	2031.6	2040.8
12.5°	2343.7	2342.8	2313.3	2278.3	2225.9	2199.2	2137.5	2102.5	2107.1	2086.9	2085.0
15°	2496.5	2483.6	2449.6	2413.6	2348.3	2295.8	2221.3	2178.0	2185.4	2162.3	2156.8
17.5°	2645.6	2632.7	2606.0	2566.5	2506.6	2425.6	2334.5	2271.9	2270.0	2259.0	2225.9
20°	2798.4	2804.0	2768.1	2732.2	2672.3	2563.7	2460.6	2379.6	2381.4	2362.1	2297.7
22.5°	2977.0	2966.9	2923.6	2907.1	2838.9	2720.2	2605.1	2512.1	2493.7	2490.1	2378.7
25°	3147.3	3140.9	3101.3	3082.0	3024.9	2916.3	2767.1	2655.8	2653.0	2641.0	2483.6
27.5°	3282.6	3290.0	3286.3	3272.5	3209.9	3103.1	2972.4	2838.9	2840.8	2823.3	2619.9
30°	3475.0	3452.9	3444.7	3455.7	3450.2	3335.1	3196.1	3099.5	3093.0	3047.9	2792.0
32.5°	3587.3	3598.4	3609.4	3648.1	3649.0	3563.4	3473.2	3427.2	3452.9	3460.3	3220.0
35°	3690.4	3690.4	3754.0	3851.5	3885.6	3856.1	3817.5	3875.5	3926.1	4028.3	3746.6
37.5°	3782.5	3809.2	3869.0	3991.5	4102.8	4131.4	4216.1	4375.3	4437.0	4530.0	4190.3
40°	3859.8	3879.1	3955.6	4105.6	4297.1	4427.8	4586.1	4839.3	4903.7	4886.2	4437.0
42.5°	3774.2	3805.5	3927.9	4236.3	4477.5	4723.3	4930.4	5203.8	5282.0	5120.0	4696.6
45°	3728.2	3740.1	3868.1	4217.9	4610.1	5022.5	5257.2	5549.9	5549.9	5368.6	4879.8
47.5°	3636.1	3657.3	3809.2	4194.0	4750.9	5271.9	5509.4	5807.7	5827.0	5603.3	5062.0
50°	3543.1	3569.8	3742.0	4151.6	4830.1	5522.3	5723.9	6023.1	6030.4	5764.4	5223.1
52.5°	3451.1	3464.9	3657.3	4124.0	4917.5	5651.2	5908.9	6198.0	6201.7	6005.6	5400.8
55°	3286.3	3320.4	3519.2	4022.7	4912.9	5710.1	6005.6	6431.8	6467.7	6267.9	5575.7
57.5°	3131.7	3141.8	3359.0	3876.4	4838.3	5778.2	6213.6	6766.9	6801.9	6506.4	5705.5
60°	2925.5	2936.5	3170.3	3702.4	4727.9	5846.3	6477.8	7158.1	7173.7	6756.7	5803.1
62.5°	2710.1	2747.8	2940.2	3435.4	4498.7	5858.3	6701.5	7519.0	7512.5	6974.0	5867.5
65°	2456.9	2470.7	2655.8	3123.4	4147.9	5767.2	6793.6	7693.9	7709.5	7126.8	5825.2
67.5°	2153.1	2158.7	2285.7	2734.9	3732.8	5453.3	6717.2	7836.5	7876.1	7246.5	5648.4
70°	1701.2	1709.4	1826.3	2253.5	3143.6	4972.7	6588.3	7853.1	7836.5	7138.8	5379.6
72.5°	1185.7	1173.7	1287.8	1580.6	2380.5	4089.9	5966.0	7184.8	7214.3	6604.9	4817.2
75°	568.0	571.7	798.1	972.1	1336.6	2921.8	4965.4	6186.9	6310.3	5756.1	3924.3
77.5°	96.7	98.5	210.8	382.9	538.5	1226.2	3292.8	4927.6	5032.6	4518.0	2656.7
80°	77.3	77.3	103.1	206.2	285.4	508.1	1247.3	2184.4	2298.6	2046.4	979.5
82.5°	52.5	55.2	73.6	120.6	101.3	198.8	452.9	691.3	709.7	643.5	402.3
85°	29.5	30.4	37.7	48.8	42.3	73.6	93.0	94.8	100.3	78.2	59.8
87.5°	3.7	8.3	8.3	8.3	3.7	3.7	2.8	2.8	3.7	2.8	2.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P509494

CATALOG NUMBER: VERD-G-CA2-110-727-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1915.6	1915.6	1915.6	1915.6	1915.6	1915.6	1915.6	1915.6	1915.6	1915.6	1915.6
2.5°	1913.8	1902.8	1926.7	1922.1	1938.7	1935.9	1949.7	1957.1	1972.7	1993.0	1991.1
5°	1954.3	1953.4	1981.9	1995.7	2010.5	2024.3	2025.2	2039.0	2052.8	2083.2	2082.3
7.5°	1993.0	2001.2	2041.8	2042.7	2048.2	2058.3	2044.5	2049.1	2052.8	2063.8	2067.5
10°	2038.1	2053.7	2054.6	2051.0	2033.5	2032.5	2001.2	2004.9	1988.4	2001.2	1994.8
12.5°	2096.1	2083.2	2075.8	2051.0	2024.3	1988.4	1958.9	1918.4	1909.2	1909.2	1912.0
15°	2153.1	2133.8	2070.3	2030.7	1981.9	1924.8	1877.0	1830.9	1807.9	1797.8	1796.0
17.5°	2202.8	2162.3	2072.1	2020.6	1928.5	1844.8	1773.0	1699.3	1663.4	1640.4	1636.7
20°	2243.4	2200.1	2077.7	1987.4	1870.5	1747.2	1638.6	1545.6	1474.7	1422.2	1427.8
22.5°	2311.5	2242.4	2074.0	1947.9	1803.3	1643.2	1479.3	1351.3	1232.6	1203.1	1211.4
25°	2393.4	2303.2	2095.1	1923.9	1725.1	1512.4	1297.0	1148.8	1021.8	981.3	984.1
27.5°	2488.2	2376.8	2119.1	1884.3	1644.1	1351.3	1091.8	908.6	807.3	727.2	720.8
30°	2639.2	2477.2	2144.9	1858.6	1530.9	1171.8	868.1	677.5	550.5	507.2	507.2
32.5°	2993.6	2680.6	2186.3	1796.9	1381.7	971.2	633.3	443.7	331.4	292.7	293.7
35°	3443.7	3091.2	2280.2	1721.4	1205.9	736.4	391.2	246.7	194.2	174.9	173.1
37.5°	3873.6	3468.6	2480.8	1633.0	984.1	466.7	220.0	151.9	132.6	131.6	132.6
40°	4138.7	3766.8	2682.4	1515.2	718.9	256.8	142.7	124.3	121.5	118.7	118.7
42.5°	4383.6	3972.1	2835.3	1334.8	429.0	155.6	125.2	113.2	111.4	106.8	106.8
45°	4582.4	4119.4	2847.2	1094.5	227.4	138.1	115.1	103.1	99.4	96.7	95.7
47.5°	4771.1	4263.0	2804.0	838.6	162.0	128.0	107.7	94.8	90.2	92.1	91.1
50°	4898.2	4406.6	2686.1	659.1	154.7	118.7	99.4	86.5	84.7	88.4	87.5
52.5°	5035.3	4524.4	2456.9	512.7	143.6	109.5	91.1	81.0	77.3	80.1	81.0
55°	5144.0	4522.6	2288.5	400.4	136.2	102.2	85.6	76.4	70.0	70.0	69.0
57.5°	5197.4	4479.3	2153.1	314.8	128.0	94.8	80.1	67.2	59.8	58.0	57.1
60°	5194.6	4437.0	1995.7	258.7	119.7	86.5	71.8	57.1	49.7	46.0	46.0
62.5°	5165.1	4337.6	1746.3	222.8	111.4	80.1	59.8	46.9	41.4	37.7	38.7
65°	5089.7	4146.1	1439.7	189.6	103.1	77.3	50.6	41.4	35.9	32.2	32.2
67.5°	4828.2	3824.8	1123.1	159.3	94.8	64.4	44.2	35.0	30.4	26.7	26.7
70°	4458.2	3335.1	739.2	134.4	84.7	56.2	39.6	30.4	25.8	22.1	21.2
72.5°	3800.0	2665.0	375.6	115.1	72.7	49.7	35.0	26.7	22.1	18.4	17.5
75°	2914.4	1795.0	233.8	92.1	57.1	44.2	31.3	23.9	18.4	13.8	12.9
77.5°	1738.0	722.6	165.7	64.4	38.7	35.0	25.8	19.3	14.7	10.1	10.1
80°	548.6	319.4	112.3	44.2	24.9	23.9	19.3	13.8	10.1	7.4	7.4
82.5°	310.2	202.5	75.5	29.5	17.5	15.6	11.0	8.3	6.4	5.5	5.5
85°	51.6	40.5	23.0	11.0	8.3	7.4	4.6	2.8	1.8	0.9	1.8
87.5°	2.8	2.8	3.7	3.7	3.7	2.8	1.8	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)