

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: P507744

Luminaire Tested: **VERD-S-CA1-80-750-U-T2-HSS**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507744
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-3)
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-S-CA1-80-750-U-T2-HSS
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 1500mA LED AND TYPE II OPTIC WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10225 lumens
Efficiency: N/A
Efficacy: 123.0 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

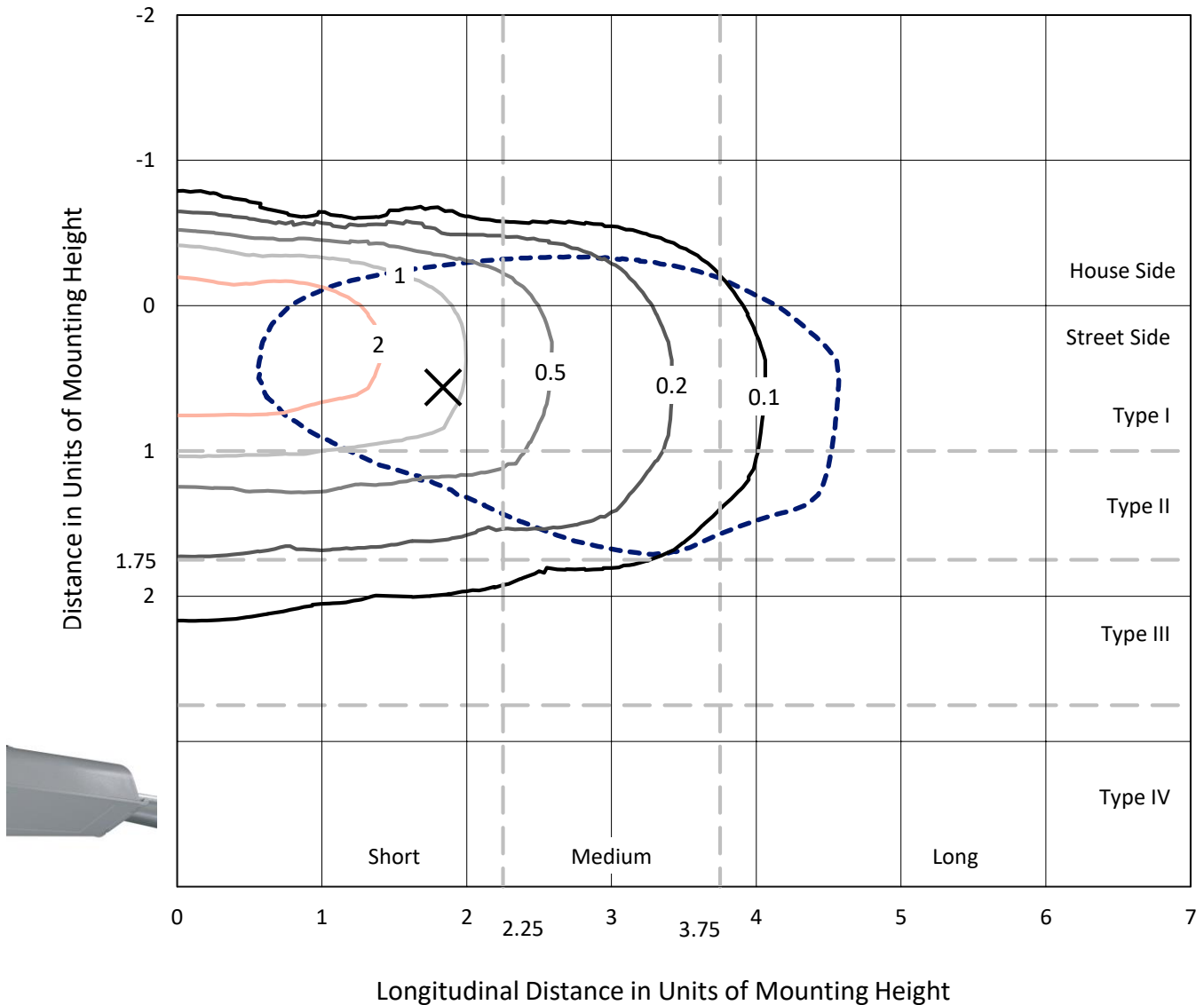
Input Watts (W): 83.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

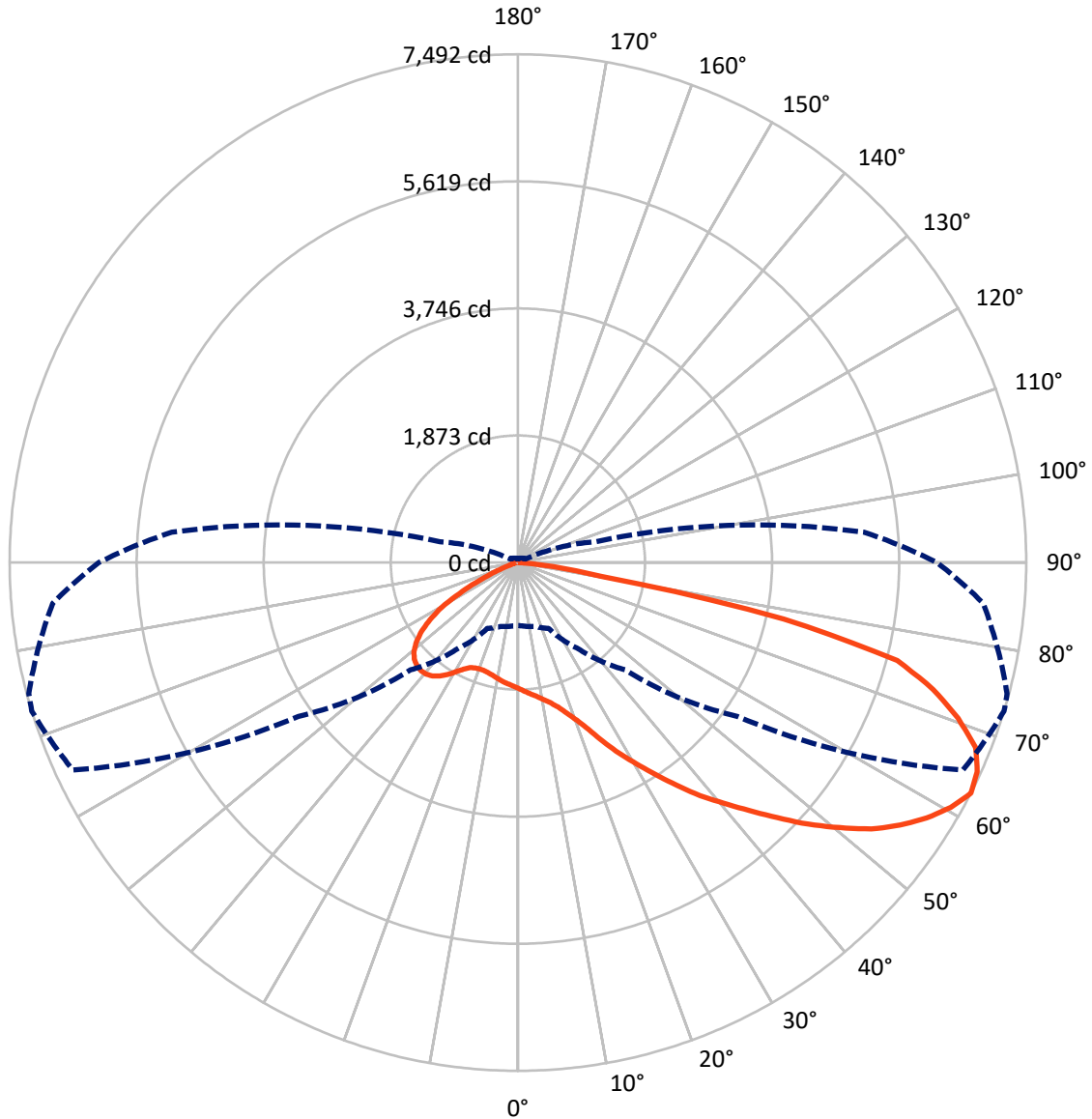
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 73-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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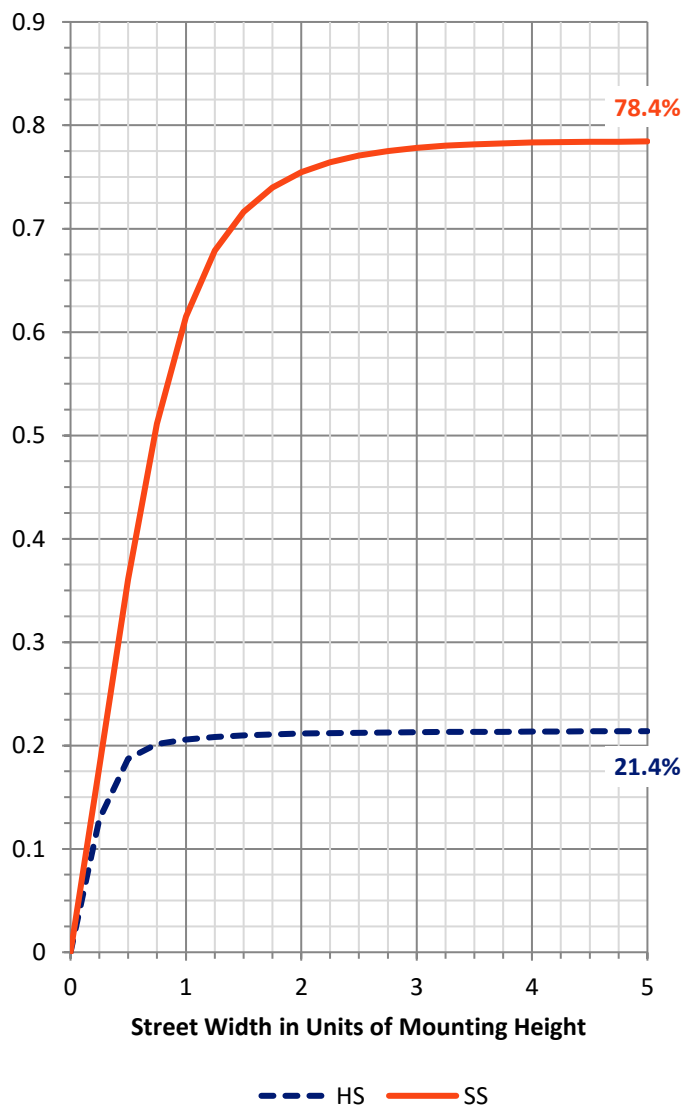
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2214.8	0.0	2214.8
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	8010.2	0.0	8010.2
	% Fixture	78.3	0.0	78.3
Total	Lumens	10225.0	0.0	10225.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.6	1.7
10°-20°	534.8	5.2
20°-30°	925.0	9.0
30°-40°	1358.5	13.3
40°-50°	1765.8	17.3
50°-60°	2047.3	20.0
60°-70°	2060.4	20.2
70°-80°	1255.6	12.3
80°-90°	100.0	1.0
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°	10225.0	100.0
0°-180°	10225.0	100.0

Coefficient of Utilization



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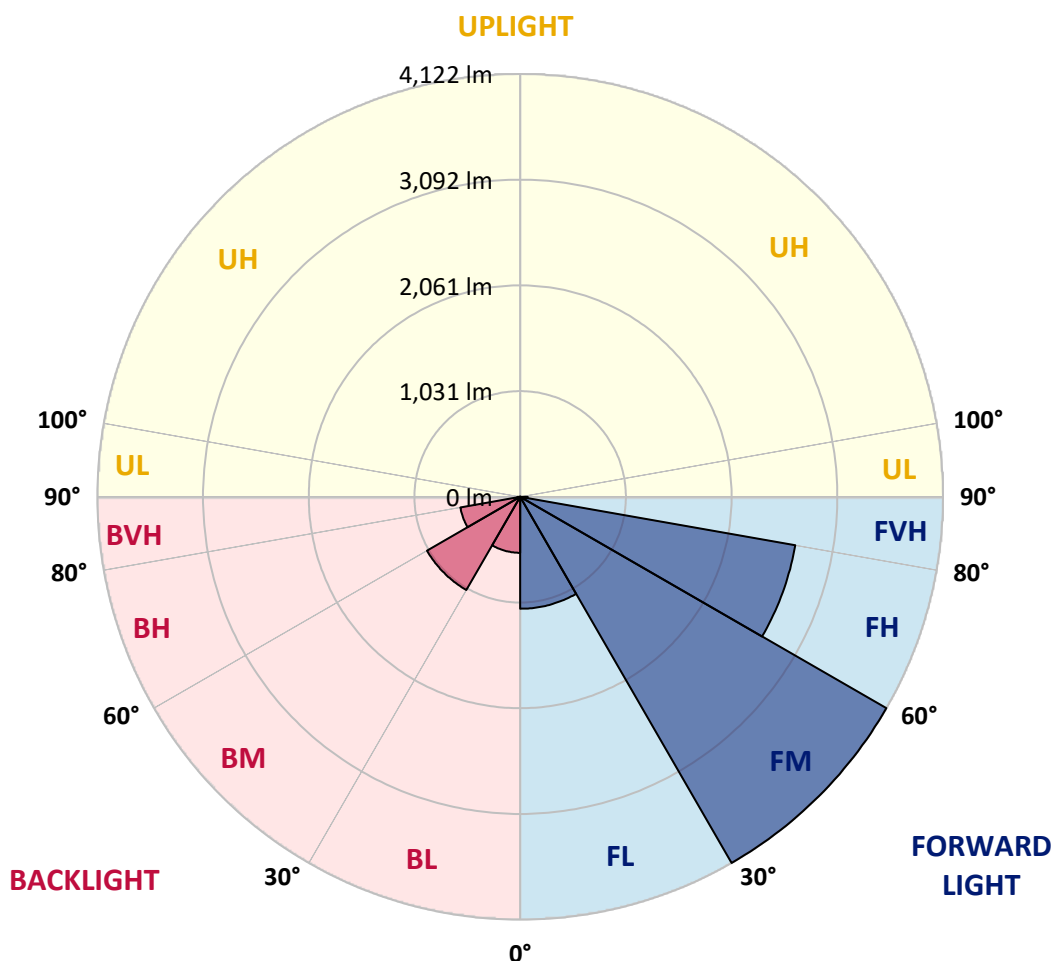
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1091.4	10.7			
FM (30°-60°)	4122.5	40.3			
FH (60°-80°)	2723.7	26.6			G2/5000
FVH (80°-90°)	72.7	0.7			G1/100
BL (0°-30°)	546.0	5.3	B2/1000		
BM (30°-60°)	1049.1	10.3	B2/2500		
BH (60°-80°)	592.3	5.8	B2/1000		G2/1000
BVH (80°-90°)	27.4	0.3			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	1857.5	1857.5	1857.5	1857.5	1857.5	1857.5	1857.5	1857.5	1857.5	1857.5	1857.5
2.5°	1982.3	1982.3	1979.2	1976.1	1963.6	1951.1	1932.4	1916.8	1901.2	1894.9	1869.9
5°	2097.8	2097.8	2094.7	2082.2	2066.6	2044.8	2013.5	1973.0	1944.9	1941.7	1898.0
7.5°	2194.6	2191.5	2188.4	2182.1	2166.5	2138.4	2091.6	2038.5	1991.7	1979.2	1926.1
10°	2288.3	2291.4	2285.1	2269.5	2250.8	2216.5	2169.6	2107.2	2051.0	2032.3	1951.1
12.5°	2388.2	2385.0	2375.7	2356.9	2332.0	2303.9	2253.9	2191.5	2116.6	2097.8	1991.7
15°	2472.4	2475.6	2460.0	2447.5	2422.5	2391.3	2347.6	2285.1	2210.2	2188.4	2051.0
17.5°	2547.4	2547.4	2544.2	2538.0	2519.3	2497.4	2453.7	2410.0	2332.0	2297.6	2141.5
20°	2603.6	2606.7	2612.9	2625.4	2628.5	2609.8	2588.0	2556.7	2481.8	2447.5	2253.9
22.5°	2653.5	2659.8	2684.7	2722.2	2753.4	2753.4	2750.3	2747.2	2672.2	2650.4	2419.4
25°	2666.0	2675.4	2731.6	2812.7	2862.7	2903.3	2959.4	2981.3	2925.1	2887.6	2634.8
27.5°	2684.7	2694.1	2756.5	2853.3	2978.2	3068.7	3168.6	3224.8	3184.2	3146.7	2881.4
30°	2669.1	2681.6	2750.3	2887.6	3053.1	3243.5	3368.4	3452.7	3440.2	3418.3	3137.4
32.5°	2628.5	2641.0	2722.2	2890.8	3143.6	3421.5	3561.9	3693.1	3727.4	3708.7	3405.9
35°	2547.4	2559.9	2659.8	2865.8	3187.3	3555.7	3755.5	3949.0	4027.1	4014.6	3699.3
37.5°	2444.3	2444.3	2563.0	2790.9	3202.9	3658.7	3927.2	4205.0	4358.0	4339.3	3995.9
40°	2272.7	2303.9	2450.6	2709.7	3178.0	3733.6	4092.6	4470.4	4660.8	4651.4	4317.4
42.5°	2101.0	2125.9	2266.4	2569.2	3118.7	3777.3	4230.0	4748.2	4994.8	4988.6	4626.5
45°	1948.0	1966.7	2082.2	2375.7	2993.8	3789.8	4361.1	5044.8	5363.2	5350.7	4941.8
47.5°	1751.3	1788.8	1935.5	2194.6	2822.1	3752.4	4482.9	5416.3	5762.8	5750.3	5282.0
50°	1326.8	1351.7	1657.7	2047.9	2600.4	3658.7	4582.8	5781.5	6140.5	6115.6	5591.1
52.5°	1205.0	1220.6	1317.4	1866.8	2394.4	3490.1	4645.2	6218.6	6524.5	6483.9	5909.5
55°	1127.0	1139.4	1195.6	1495.3	2213.3	3206.1	4663.9	6630.6	6833.6	6793.0	6203.0
57.5°	1058.3	1064.5	1120.7	1273.7	1997.9	2847.1	4598.4	6936.6	7105.2	7061.5	6455.8
60°	986.5	995.8	1048.9	1161.3	1738.8	2516.2	4395.5	7180.1	7329.9	7292.5	6677.5
62.5°	927.2	939.7	974.0	1070.8	1551.5	2235.2	3952.2	7236.3	7492.3	7464.2	6883.5
65°	855.4	864.7	908.4	989.6	1358.0	2060.4	3502.6	7070.8	7439.2	7473.5	6999.0
67.5°	771.1	780.4	817.9	880.3	1139.4	1876.2	3109.3	6836.7	7276.9	7323.7	6914.7
70°	668.1	674.3	711.8	771.1	945.9	1635.8	2697.2	6493.3	6883.5	6917.9	6580.7
72.5°	555.7	555.7	583.8	652.5	777.3	1354.9	2163.4	5769.0	6402.8	6487.0	6015.7
75°	234.1	246.6	296.6	359.0	496.4	989.6	1479.7	4442.3	5775.3	5847.1	5313.3
77.5°	46.8	49.9	56.2	84.3	131.1	430.8	458.9	1938.6	4008.4	4055.2	3880.4
80°	37.5	37.5	40.6	62.4	87.4	199.8	149.8	633.7	1248.7	1607.7	2072.9
82.5°	12.5	15.6	21.9	34.3	43.7	43.7	49.9	318.4	618.1	664.9	836.6
85°	6.2	6.2	9.4	12.5	12.5	12.5	12.5	56.2	106.1	128.0	177.9
87.5°	3.1	0.0	0.0	0.0	0.0	0.0	3.1	6.2	9.4	9.4	12.5
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°	1857.5	1857.5	1857.5	1857.5	1857.5	1857.5	1857.5	1857.5	1857.5	1857.5	1857.5
2.5°	1857.5	1848.1	1826.2	1810.6	1788.8	1770.0	1748.2	1735.7	1729.5	1726.3	1720.1
5°	1873.1	1848.1	1804.4	1757.6	1717.0	1685.8	1642.1	1620.2	1607.7	1601.5	1598.3
7.5°	1891.8	1860.6	1785.7	1713.9	1642.1	1589.0	1535.9	1501.6	1486.0	1482.8	1479.7
10°	1904.3	1854.3	1754.4	1676.4	1582.7	1498.5	1436.0	1395.4	1373.6	1370.5	1367.3
12.5°	1929.3	1863.7	1729.5	1617.1	1520.3	1411.0	1345.5	1298.7	1276.8	1258.1	1258.1
15°	1969.8	1885.6	1717.0	1567.1	1439.1	1333.0	1248.7	1198.8	1183.2	1158.2	1151.9
17.5°	2038.5	1926.1	1707.6	1517.2	1364.2	1258.1	1158.2	1105.1	1095.7	1073.9	1061.4
20°	2122.8	1985.4	1713.9	1470.4	1286.2	1164.4	1064.5	1011.5	980.2	961.5	955.3
22.5°	2257.0	2072.9	1735.7	1436.0	1217.5	1080.1	974.0	889.7	821.0	796.1	796.1
25°	2447.5	2222.7	1773.2	1407.9	1148.8	999.0	867.9	724.3	633.7	599.4	590.0
27.5°	2662.9	2413.1	1860.6	1382.9	1092.6	908.4	714.9	555.7	458.9	427.7	427.7
30°	2909.5	2612.9	1966.7	1367.3	1023.9	771.1	540.1	405.8	327.8	293.4	290.3
32.5°	3153.0	2819.0	2091.6	1354.9	952.1	602.5	390.2	296.6	231.0	206.0	209.2
35°	3396.5	3021.9	2197.7	1354.9	833.5	433.9	277.8	206.0	165.5	153.0	153.0
37.5°	3671.2	3249.8	2282.0	1336.1	655.6	309.1	190.4	149.8	137.4	131.1	131.1
40°	3955.3	3462.0	2338.2	1295.5	468.3	212.3	134.2	131.1	124.9	115.5	112.4
42.5°	4220.6	3705.5	2372.5	1217.5	305.9	140.5	118.6	121.7	118.6	103.0	99.9
45°	4501.6	3902.2	2391.3	1061.4	202.9	115.5	106.1	112.4	115.5	103.0	99.9
47.5°	4782.6	4117.6	2403.8	827.3	134.2	112.4	99.9	109.3	112.4	99.9	96.8
50°	5079.1	4314.3	2385.0	530.7	118.6	106.1	96.8	99.9	106.1	99.9	96.8
52.5°	5338.2	4492.2	2297.6	296.6	115.5	103.0	90.5	93.7	103.0	96.8	96.8
55°	5603.6	4667.1	2135.3	174.8	112.4	96.8	90.5	93.7	96.8	90.5	93.7
57.5°	5844.0	4835.6	1891.8	143.6	112.4	93.7	93.7	87.4	87.4	81.2	81.2
60°	6028.1	4988.6	1601.5	134.2	106.1	96.8	87.4	81.2	74.9	68.7	68.7
62.5°	6174.9	5119.7	1189.4	124.9	103.0	93.7	81.2	71.8	62.4	56.2	56.2
65°	6256.0	5147.8	839.8	112.4	96.8	90.5	74.9	62.4	49.9	46.8	46.8
67.5°	6162.4	5001.1	512.0	106.1	90.5	87.4	71.8	56.2	43.7	40.6	40.6
70°	5803.4	4607.7	287.2	96.8	81.2	78.0	65.6	49.9	40.6	34.3	34.3
72.5°	5210.2	4030.2	143.6	81.2	68.7	68.7	59.3	43.7	37.5	31.2	31.2
75°	4401.7	3306.0	103.0	59.3	56.2	56.2	49.9	40.6	34.3	28.1	28.1
77.5°	3224.8	2179.0	84.3	49.9	40.6	40.6	43.7	37.5	31.2	25.0	25.0
80°	1670.1	1080.1	71.8	37.5	34.3	31.2	31.2	31.2	25.0	21.9	21.9
82.5°	739.9	415.2	46.8	28.1	28.1	25.0	25.0	25.0	21.9	18.7	18.7
85°	143.6	78.0	25.0	21.9	18.7	18.7	18.7	15.6	15.6	15.6	15.6
87.5°	12.5	12.5	12.5	12.5	12.5	9.4	9.4	9.4	9.4	9.4	9.4
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)