

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: P509625

Luminaire Tested: **VERD-G-CA2-130-760-U-T4**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509625
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-6)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-CA2-130-760-U-T4
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5700K, 1200mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18595 lumens
Efficiency: N/A
Efficacy: 138.9 lumens/watt
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

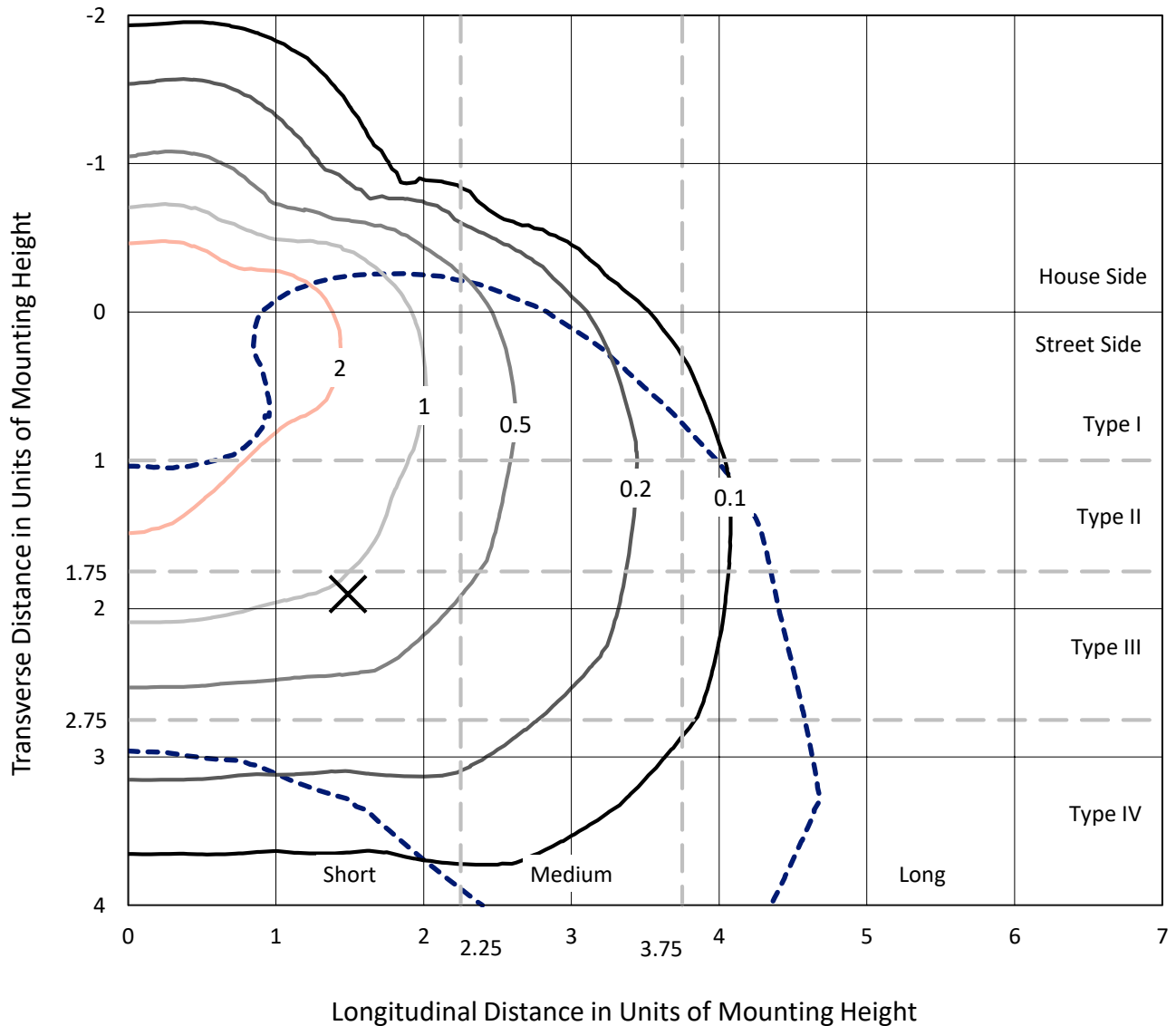
Input Watts (W): 133.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

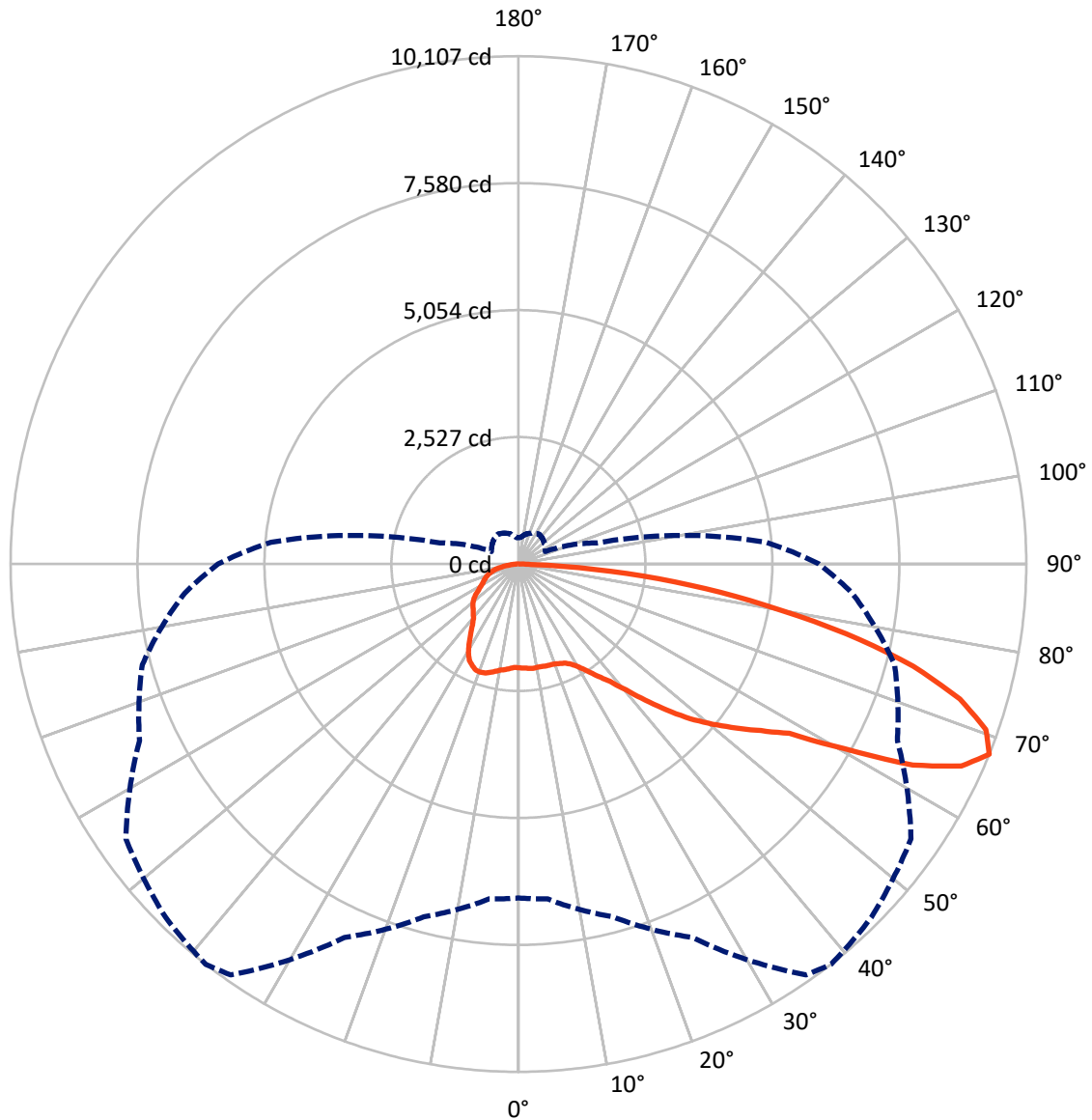
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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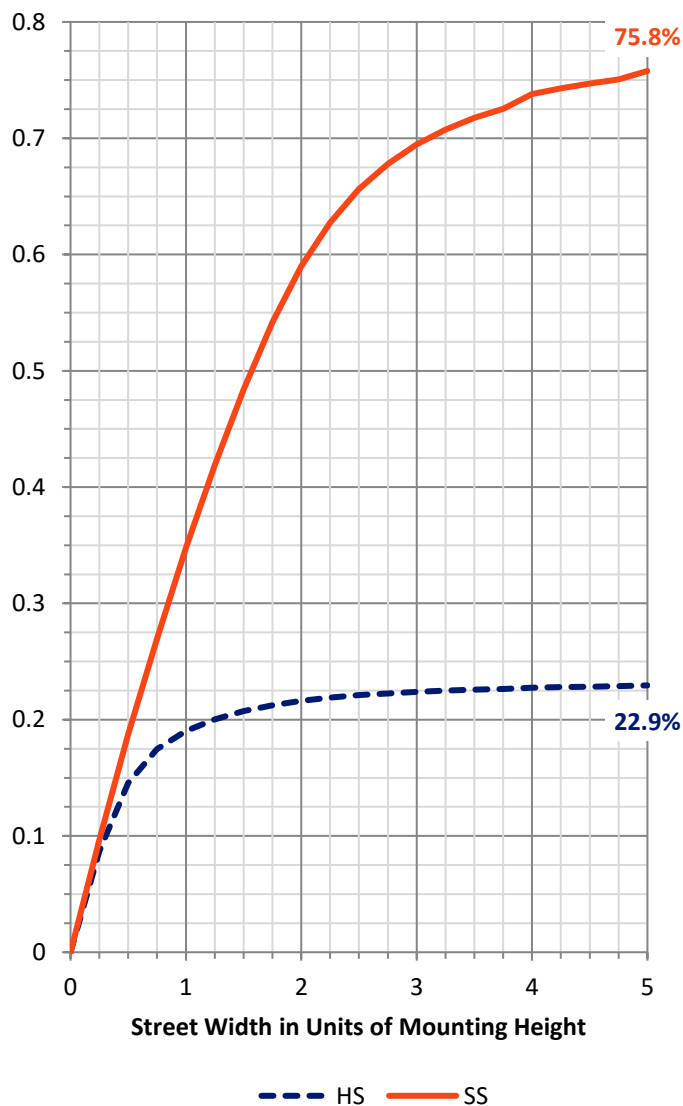
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4314.6	0.0	4314.6
	% Fixture	23.2	0.0	23.2
Street Side	Lumens	14280.4	0.0	14280.4
	% Fixture	76.8	0.0	76.8
Total	Lumens	18595.0	0.0	18595.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.4	1.1
10°-20°	618.2	3.3
20°-30°	1047.7	5.6
30°-40°	1605.6	8.6
40°-50°	2645.6	14.2
50°-60°	3781.3	20.3
60°-70°	4710.5	25.3
70°-80°	3356.8	18.1
80°-90°	628.8	3.4
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°	18595.0	100.0
0°-180°	18595.0	100.0



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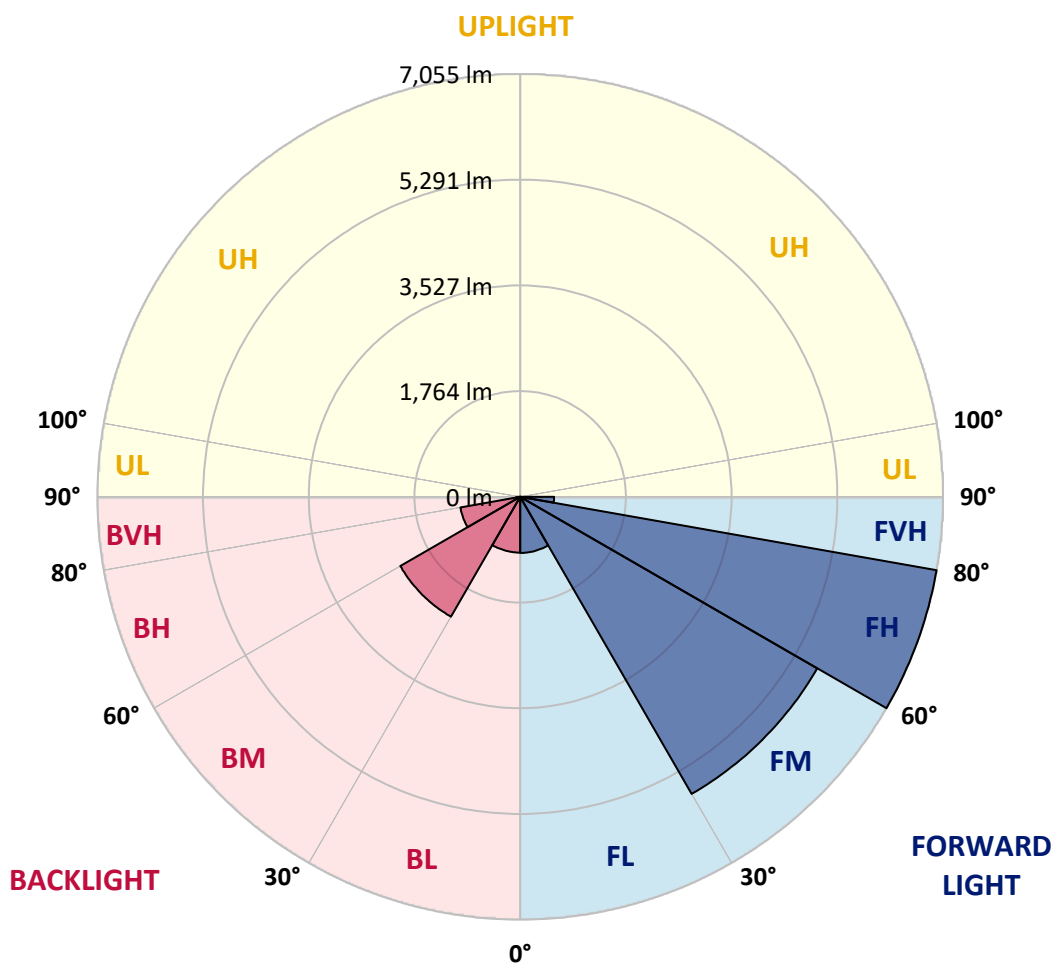
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	936.0	5.0			
FM (30°-60°)	5723.1	30.8			
FH (60°-80°)	7054.5	37.9			G3/7500
FVH (80°-90°)	566.8	3.0			G4/750
BL (0°-30°)	930.4	5.0	B2/1000		
BM (30°-60°)	2309.4	12.4	B2/2500		
BH (60°-80°)	1012.8	5.4	B3/2500		G3/2500
BVH (80°-90°)	62.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	2065.9	2065.9	2065.9	2065.9	2065.9	2065.9	2065.9	2065.9	2065.9	2065.9	2065.9
2.5°	2104.2	2112.9	2096.8	2094.4	2084.5	2072.1	2074.6	2064.7	2052.4	2057.3	2059.8
5°	2116.6	2116.6	2104.2	2091.9	2086.9	2084.5	2086.9	2075.8	2073.4	2082.0	2074.6
7.5°	2105.5	2112.9	2091.9	2091.9	2083.2	2098.1	2099.3	2085.7	2095.6	2095.6	2094.4
10°	2103.0	2105.5	2096.8	2079.5	2078.3	2086.9	2104.2	2109.2	2114.1	2112.9	2117.8
12.5°	2074.6	2072.1	2054.8	2059.8	2083.2	2091.9	2121.5	2135.1	2153.7	2158.6	2161.1
15°	2038.8	2048.6	2049.9	2064.7	2089.4	2103.0	2132.7	2159.8	2200.6	2210.5	2209.3
17.5°	2042.5	2046.2	2052.4	2061.0	2099.3	2105.5	2153.7	2183.3	2234.0	2268.6	2285.9
20°	2065.9	2058.5	2070.9	2093.1	2114.1	2119.1	2169.7	2215.5	2284.6	2330.4	2350.1
22.5°	2105.5	2106.7	2112.9	2112.9	2127.7	2150.0	2196.9	2232.7	2318.0	2382.3	2416.9
25°	2142.6	2145.0	2152.4	2150.0	2174.7	2184.6	2229.0	2283.4	2381.0	2456.4	2523.1
27.5°	2198.2	2205.6	2200.6	2201.9	2250.0	2259.9	2279.7	2352.6	2452.7	2554.0	2672.6
30°	2301.9	2301.9	2297.0	2301.9	2353.8	2378.6	2384.7	2456.4	2537.9	2660.3	2839.4
32.5°	2451.5	2452.7	2421.8	2446.5	2504.6	2547.8	2566.4	2680.0	2771.5	2830.8	3061.8
35°	2771.5	2757.9	2725.8	2654.1	2691.2	2744.3	2803.6	2948.2	3149.6	3370.7	3603.0
37.5°	3262.0	3260.8	3147.1	3003.8	2939.5	2966.7	3049.5	3265.7	3580.8	4133.1	4338.2
40°	3806.9	3820.5	3656.2	3477.0	3288.0	3290.4	3311.4	3582.0	4038.0	4836.2	4943.7
42.5°	4350.6	4328.3	4146.7	3975.0	3718.0	3701.9	3646.3	3902.1	4516.2	5398.4	5413.2
45°	4834.9	4823.8	4622.4	4448.2	4206.0	4144.2	4081.2	4244.3	4972.1	5853.1	5755.5
47.5°	5289.7	5304.5	5026.5	4869.5	4629.8	4598.9	4526.0	4629.8	5423.1	6210.2	6033.5
50°	5807.4	5813.6	5481.2	5287.2	5049.9	5010.4	4982.0	5114.2	5888.9	6551.2	6316.4
52.5°	6386.9	6265.8	5942.1	5675.2	5447.8	5418.2	5402.1	5540.5	6399.2	6850.2	6503.0
55°	7115.9	6954.0	6622.9	6180.5	5849.4	5854.3	5798.7	5960.6	6829.2	7056.6	6684.7
57.5°	7434.7	7471.7	7410.0	7007.2	6426.4	6354.7	6217.6	6342.4	7238.2	7298.8	6828.0
60°	8035.2	8178.5	8045.1	7820.2	7648.4	7460.6	6790.9	6837.9	7611.4	7566.9	6844.1
62.5°	8076.0	8125.4	8546.7	8582.6	8749.4	8812.4	8257.6	7400.1	7949.9	7701.6	6898.4
65°	7675.6	7731.2	8239.1	8685.1	9603.2	9689.7	9514.2	8429.3	8224.2	7774.5	6855.2
67.5°	6646.4	6692.1	7269.1	8200.8	9982.5	10107.3	9936.8	9536.4	8320.6	7749.8	6664.9
70°	5685.0	5711.0	6190.4	7494.0	9721.8	9868.8	9800.9	9578.5	8316.9	7604.0	6244.8
72.5°	4465.5	4540.9	4927.6	6215.1	9063.2	9186.8	9206.5	9320.2	8105.6	7124.5	5305.7
75°	3238.5	3279.3	3718.0	4828.8	7822.7	8118.0	8465.2	8893.9	7311.1	6048.3	3923.1
77.5°	2282.2	2321.7	2734.4	3661.1	6331.3	6667.4	7295.0	7547.1	5932.2	4533.5	2064.7
80°	1502.5	1497.6	1890.5	2709.7	4750.9	4986.9	5452.8	5115.4	3442.4	1970.8	224.9
82.5°	882.2	931.7	1210.9	1862.1	3320.1	3451.1	3438.7	2693.6	1366.6	203.9	114.9
85°	509.1	527.6	714.2	1103.4	1829.9	1848.5	1655.7	1045.3	338.6	91.4	68.0
87.5°	227.4	218.7	284.2	364.5	333.6	248.4	154.5	43.2	25.9	17.3	11.1
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°	2065.9	2065.9	2065.9	2065.9	2065.9	2065.9	2065.9	2065.9	2065.9	2065.9	2065.9
2.5°	2049.9	2043.7	2074.6	2057.3	2072.1	2063.5	2056.1	2065.9	2084.5	2100.5	2090.7
5°	2065.9	2069.6	2094.4	2073.4	2093.1	2089.4	2079.5	2090.7	2120.3	2135.1	2133.9
7.5°	2084.5	2086.9	2112.9	2104.2	2112.9	2105.5	2121.5	2114.1	2140.1	2150.0	2143.8
10°	2106.7	2110.4	2133.9	2135.1	2138.8	2133.9	2141.3	2145.0	2159.8	2179.6	2167.3
12.5°	2154.9	2163.6	2180.9	2199.4	2196.9	2177.1	2183.3	2163.6	2177.1	2183.3	2193.2
15°	2221.6	2242.6	2252.5	2278.5	2255.0	2243.9	2220.4	2180.9	2168.5	2162.3	2152.4
17.5°	2293.3	2313.1	2331.6	2365.0	2326.7	2297.0	2256.2	2182.1	2126.5	2106.7	2098.1
20°	2373.6	2392.1	2425.5	2447.7	2390.9	2326.7	2261.2	2152.4	2042.5	1967.1	1975.7
22.5°	2463.8	2504.6	2526.8	2520.6	2440.3	2352.6	2240.2	2074.6	1933.7	1821.3	1813.9
25°	2588.6	2612.1	2620.7	2563.9	2467.5	2334.1	2169.7	1981.9	1785.5	1659.4	1640.9
27.5°	2719.6	2744.3	2698.6	2592.3	2458.9	2290.8	2090.7	1823.8	1613.7	1492.6	1479.0
30°	2887.6	2881.4	2751.7	2583.7	2409.4	2187.0	1946.1	1661.9	1467.9	1355.5	1349.3
32.5°	3070.5	3024.8	2795.0	2541.7	2315.5	2051.1	1762.0	1508.7	1359.2	1246.7	1241.8
35°	3503.0	3292.9	2858.0	2488.5	2177.1	1863.3	1591.5	1393.8	1272.7	1145.4	1120.7
37.5°	4138.1	3799.5	2987.7	2434.2	2019.0	1678.0	1449.4	1308.5	1193.6	1057.7	1034.2
40°	4729.9	4314.8	3215.1	2393.4	1876.9	1528.5	1351.8	1249.2	1138.0	1002.1	972.4
42.5°	5150.0	4715.1	3488.1	2326.7	1734.8	1409.8	1311.0	1227.0	1123.2	997.1	973.7
45°	5488.6	5061.1	3758.7	2251.3	1568.0	1308.5	1269.0	1208.4	1104.6	982.3	955.1
47.5°	5727.1	5278.5	3946.5	2166.0	1408.6	1246.7	1233.1	1178.8	1076.2	961.3	944.0
50°	5972.9	5521.9	4075.0	2078.3	1265.3	1199.8	1183.7	1112.1	1018.1	915.6	897.1
52.5°	6133.6	5640.6	4149.2	2061.0	1142.9	1135.5	1115.8	1047.8	958.8	847.6	825.4
55°	6255.9	5745.6	4138.1	1959.7	1033.0	1051.5	1039.1	988.5	910.6	801.9	787.1
57.5°	6285.6	5761.7	4036.7	1645.8	929.2	939.1	945.2	955.1	879.8	789.6	764.8
60°	6370.8	5686.3	3857.6	1183.7	806.9	831.6	881.0	889.6	837.7	735.2	720.4
62.5°	6316.4	5635.6	3468.4	834.0	720.4	771.0	818.0	818.0	746.3	651.2	641.3
65°	6221.3	5435.5	2713.4	657.3	674.6	726.5	769.8	740.1	678.4	589.4	583.2
67.5°	5979.1	4947.4	1619.9	591.9	642.5	691.9	722.8	678.4	620.3	532.5	522.7
70°	5283.5	3942.8	616.6	561.0	610.4	645.0	664.8	619.0	562.2	474.5	465.8
72.5°	4194.9	2466.3	391.7	522.7	569.6	600.5	612.9	559.7	469.5	369.4	359.6
75°	2524.4	704.3	339.8	452.2	501.7	554.8	533.8	464.6	396.6	310.1	304.0
77.5°	638.8	213.8	302.7	364.5	407.8	470.8	469.5	418.9	346.0	253.3	243.4
80°	153.2	149.5	245.9	269.4	307.7	360.8	355.9	348.4	274.3	175.5	144.6
82.5°	97.6	103.8	166.8	150.7	175.5	210.1	238.5	224.9	205.1	107.5	96.4
85°	65.5	82.8	81.6	56.8	79.1	118.6	154.5	140.9	116.1	66.7	59.3
87.5°	9.9	11.1	14.8	22.2	34.6	58.1	76.6	75.4	56.8	42.0	39.5
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)