

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: P509381

Luminaire Tested: **VERD-CA2-80-760-U-T2**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509381
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-80-760-U-T2
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5700K, 1100mA LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11512 lumens
Efficiency: N/A
Efficacy: 139.7 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

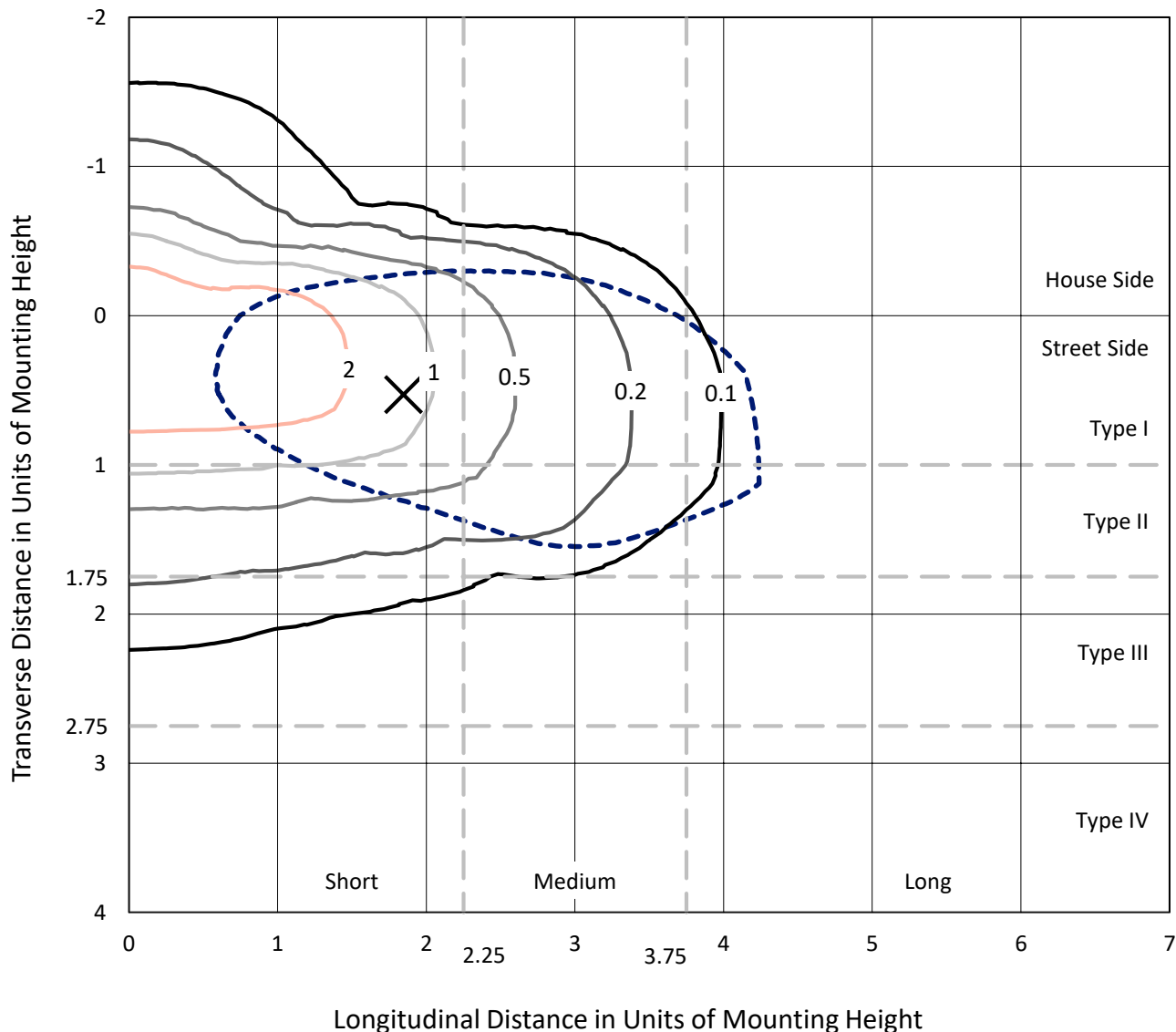
Input Watts (W): 82.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

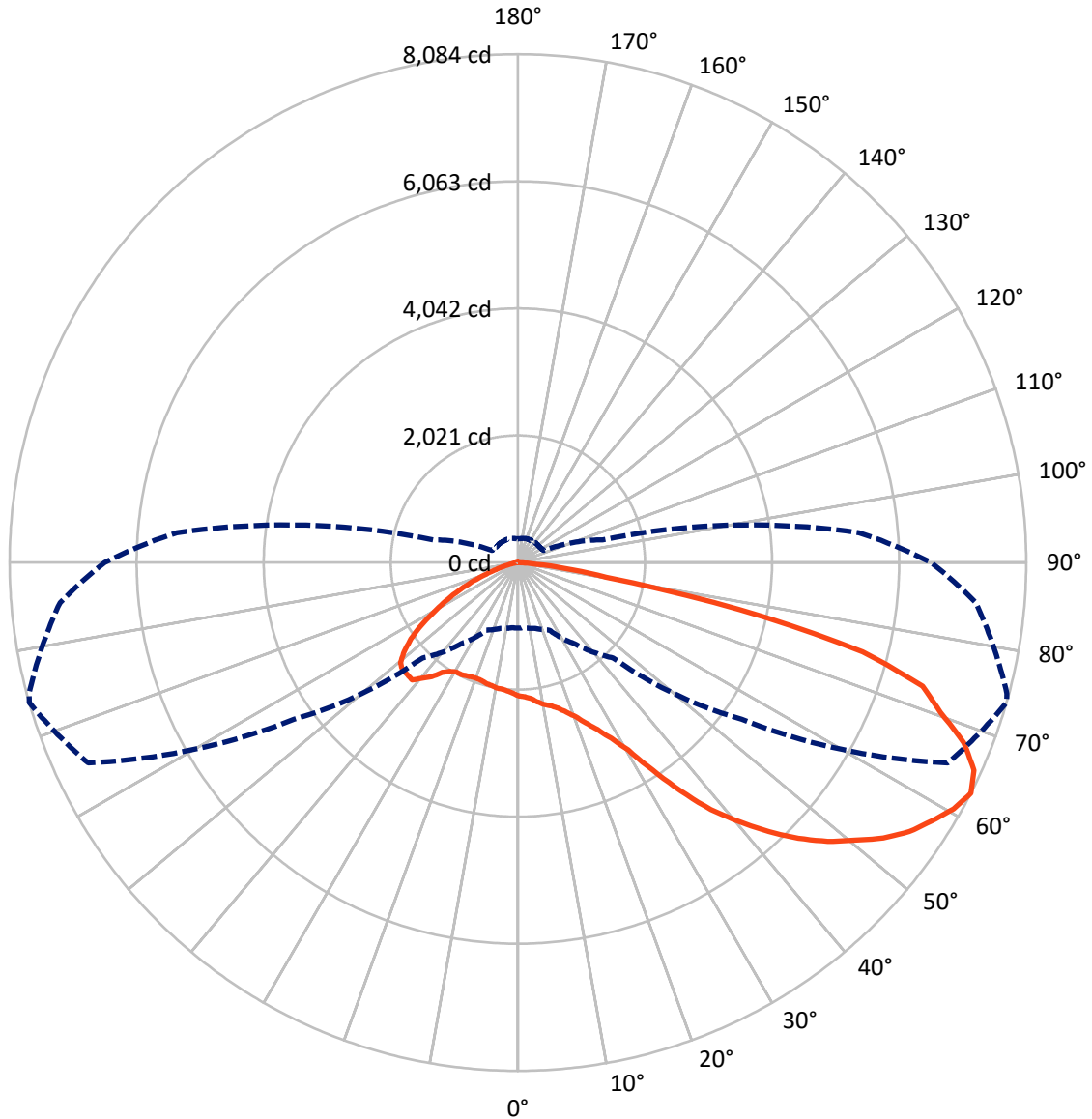
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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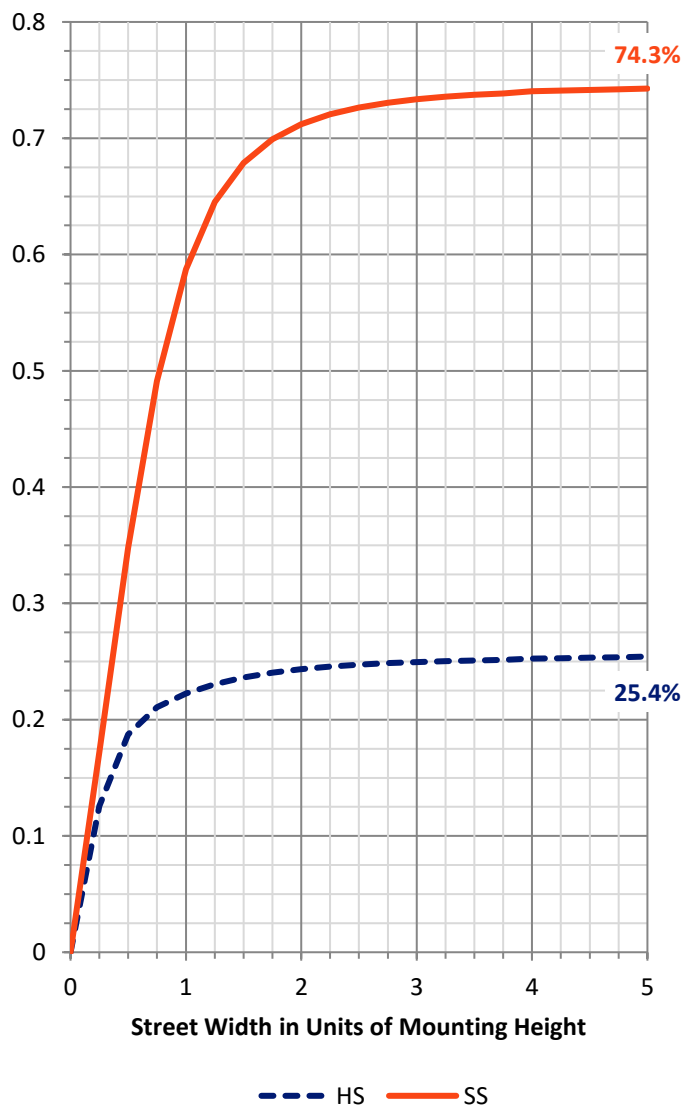
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2972.5	0.0	2972.5
	% Fixture	25.8	0.0	25.8
Street Side	Lumens	8539.5	0.0	8539.5
	% Fixture	74.2	0.0	74.2
Total	Lumens	11512.0	0.0	11512.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.0	1.8
10°-20°	621.9	5.4
20°-30°	1048.6	9.1
30°-40°	1532.1	13.3
40°-50°	2040.0	17.7
50°-60°	2347.7	20.4
60°-70°	2268.7	19.7
70°-80°	1306.0	11.3
80°-90°	142.9	1.2
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°	11512.0	100.0
0°-180°	11512.0	100.0

Coefficient of Utilization



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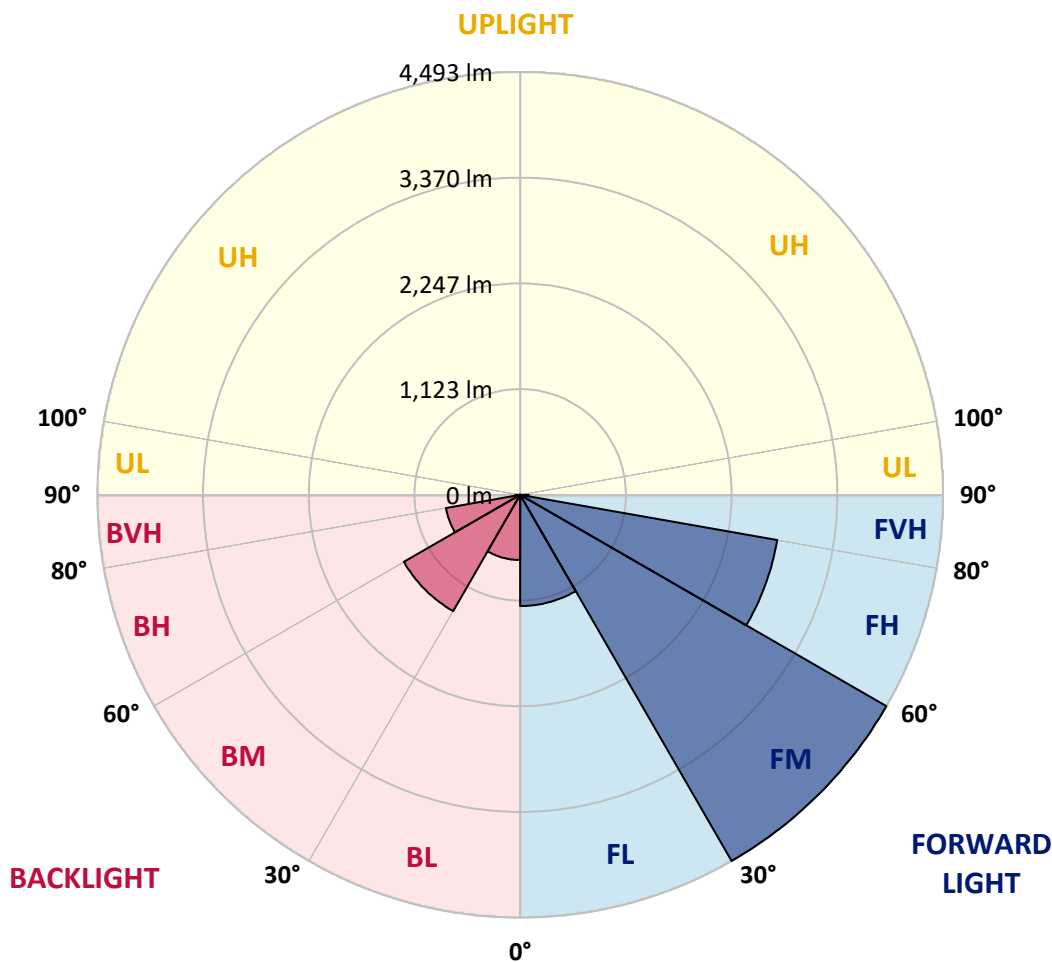
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1181.5	10.3			
FM (30°-60°)	4493.1	39.0			
FH (60°-80°)	2774.5	24.1			G2/5000
FVH (80°-90°)	90.4	0.8			G1/100
BL (0°-30°)	693.0	6.0	B2/1000		
BM (30°-60°)	1426.7	12.4	B2/2500		
BH (60°-80°)	800.2	7.0	B2/1000		G2/1000
BVH (80°-90°)	52.5	0.5			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°	74°	75°	85°
0°	2122.8	2122.8	2122.8	2122.8	2122.8	2122.8	2122.8	2122.8	2122.8	2122.8	2122.8
2.5°	2272.1	2255.8	2245.8	2234.5	2220.7	2215.6	2185.5	2159.2	2137.8	2139.1	2125.3
5°	2355.0	2337.4	2314.8	2311.1	2293.5	2289.7	2260.8	2219.4	2173.0	2166.7	2125.3
7.5°	2447.9	2437.8	2424.0	2406.5	2377.6	2358.8	2317.3	2284.7	2237.0	2230.7	2149.1
10°	2560.9	2553.3	2543.3	2543.3	2505.6	2465.5	2415.2	2333.6	2296.0	2289.7	2190.5
12.5°	2693.9	2671.3	2638.7	2619.9	2584.7	2559.6	2505.6	2419.0	2337.4	2334.9	2229.5
15°	2780.5	2761.7	2740.4	2732.8	2687.6	2646.2	2588.5	2519.4	2405.2	2396.4	2277.2
17.5°	2877.2	2859.6	2834.5	2820.7	2791.8	2744.1	2692.7	2602.3	2500.6	2491.8	2331.1
20°	2931.2	2912.4	2904.8	2907.3	2897.3	2873.4	2811.9	2730.3	2613.6	2602.3	2405.2
22.5°	2991.4	2978.9	2981.4	3000.2	3019.1	3010.3	2962.6	2872.2	2771.8	2754.2	2524.5
25°	2992.7	2982.6	3016.5	3089.4	3129.5	3149.6	3124.5	3050.4	2943.7	2927.4	2676.4
27.5°	3014.0	2999.0	3035.4	3111.9	3233.7	3275.1	3283.9	3256.3	3164.7	3144.6	2858.4
30°	2958.8	2948.8	3004.0	3137.1	3280.2	3418.2	3468.5	3511.1	3459.7	3460.9	3139.6
32.5°	2863.4	2845.8	2929.9	3093.1	3359.2	3547.5	3680.6	3852.6	3931.7	3924.1	3629.1
35°	2681.4	2691.4	2804.4	3054.2	3361.8	3679.4	3940.5	4248.0	4462.7	4457.7	4136.3
37.5°	2552.1	2547.1	2680.1	2945.0	3360.5	3796.1	4192.8	4705.0	4982.4	4974.8	4571.9
40°	2396.4	2397.7	2530.7	2809.4	3301.5	3868.9	4453.9	5138.0	5420.5	5409.2	4988.7
42.5°	2229.5	2234.5	2358.8	2643.7	3219.9	3924.1	4687.4	5576.1	5849.8	5859.9	5322.6
45°	2080.1	2082.6	2205.6	2466.7	3075.5	3930.4	4897.0	5990.4	6256.5	6232.7	5672.8
47.5°	1860.4	1862.9	2044.9	2298.5	2884.7	3879.0	5070.3	6384.6	6628.1	6577.9	5969.1
50°	1457.4	1462.5	1678.4	2124.0	2652.5	3760.9	5207.1	6754.9	6943.2	6921.9	6272.9
52.5°	1345.7	1341.9	1432.3	1915.6	2444.1	3547.5	5293.7	7087.6	7278.4	7275.9	6523.9
55°	1289.2	1285.5	1315.6	1552.8	2239.5	3231.2	5291.2	7346.2	7555.8	7504.3	6753.6
57.5°	1188.8	1181.3	1259.1	1375.8	2011.0	2837.0	5165.7	7578.4	7756.6	7741.6	6960.8
60°	1117.2	1111.0	1163.7	1271.6	1767.5	2436.6	4843.0	7698.9	7958.8	7965.0	7135.3
62.5°	1043.2	1039.4	1084.6	1185.0	1576.7	2144.1	4345.9	7540.7	8084.3	8050.4	7309.8
65°	959.1	956.6	999.2	1080.8	1387.1	1921.9	3858.9	7258.3	7971.3	8010.2	7332.3
67.5°	858.6	857.4	898.8	955.3	1180.0	1698.5	3113.2	6925.6	7648.7	7606.0	7042.4
70°	735.6	730.6	782.1	834.8	987.9	1444.9	2422.8	6334.4	7124.0	7278.4	6464.9
72.5°	618.9	616.4	665.3	704.2	818.5	1180.0	1767.5	5478.2	6731.0	6508.9	5824.7
75°	484.6	472.0	523.5	559.9	645.2	939.0	1205.1	3659.3	5665.3	5618.8	4893.3
77.5°	195.8	227.2	271.1	303.8	360.3	532.3	630.2	1736.1	3614.1	3773.5	3403.2
80°	75.3	80.3	193.3	218.4	242.3	306.3	242.3	731.9	1426.0	1555.3	1970.9
82.5°	42.7	47.7	95.4	91.6	90.4	77.8	90.4	359.0	744.4	816.0	951.5
85°	23.9	26.4	38.9	42.7	36.4	31.4	27.6	94.1	185.8	175.7	197.1
87.5°	3.8	5.0	6.3	6.3	3.8	3.8	3.8	5.0	5.0	5.0	6.3
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°	2122.8	2122.8	2122.8	2122.8	2122.8	2122.8	2122.8	2122.8	2122.8	2122.8	2122.8
2.5°	2111.5	2097.6	2083.8	2067.5	2047.4	2034.9	2029.9	2036.1	2053.7	2032.4	2014.8
5°	2103.9	2085.1	2053.7	2022.3	1997.2	1975.9	1947.0	1944.5	1949.5	1940.7	1918.1
7.5°	2120.2	2092.6	2028.6	2007.3	1954.5	1904.3	1888.0	1881.7	1866.7	1849.1	1827.8
10°	2152.9	2096.4	2031.1	1968.3	1919.4	1865.4	1802.6	1803.9	1797.6	1777.5	1757.5
12.5°	2169.2	2102.7	2007.3	1940.7	1865.4	1798.9	1737.4	1709.8	1721.0	1704.7	1683.4
15°	2199.3	2129.0	1998.5	1900.6	1797.6	1722.3	1675.9	1635.7	1610.6	1614.3	1601.8
17.5°	2255.8	2152.9	1975.9	1856.6	1744.9	1655.8	1566.6	1562.9	1525.2	1503.9	1485.0
20°	2314.8	2195.6	1973.4	1808.9	1659.5	1549.1	1477.5	1437.3	1414.7	1397.2	1383.4
22.5°	2391.4	2254.6	1982.2	1781.3	1583.0	1458.7	1367.0	1313.1	1276.7	1264.1	1254.1
25°	2499.3	2328.6	2006.0	1732.3	1502.6	1359.5	1235.2	1178.7	1137.3	1127.3	1119.7
27.5°	2647.5	2422.8	2029.9	1679.6	1408.5	1220.2	1088.4	1033.1	986.7	985.4	971.6
30°	2881.0	2567.1	2038.6	1633.2	1308.0	1070.8	939.0	887.5	852.4	838.6	848.6
32.5°	3316.6	2886.0	2093.9	1561.6	1181.3	925.2	813.4	772.0	733.1	718.0	728.1
35°	3787.3	3267.6	2186.8	1512.7	1041.9	787.1	710.5	661.6	613.9	606.3	602.6
37.5°	4132.5	3615.3	2362.5	1432.3	910.1	703.0	602.6	562.4	534.8	519.7	533.5
40°	4524.2	3904.1	2495.6	1347.0	775.8	613.9	502.1	489.6	477.0	467.0	482.0
42.5°	4834.3	4201.6	2653.8	1234.0	667.8	521.0	446.9	456.9	463.2	458.2	459.4
45°	5119.2	4422.5	2663.8	1062.0	569.9	451.9	430.6	450.7	465.7	463.2	462.0
47.5°	5397.9	4686.1	2687.6	880.0	499.6	434.3	431.8	446.9	467.0	470.7	470.7
50°	5685.4	4887.0	2651.2	708.0	473.3	436.9	435.6	434.3	459.4	460.7	464.5
52.5°	5901.3	5050.2	2479.3	585.0	472.0	444.4	441.9	429.3	440.6	449.4	443.1
55°	6129.7	5253.5	2262.1	538.5	469.5	446.9	456.9	435.6	428.1	420.5	428.1
57.5°	6346.9	5395.4	1977.1	510.9	459.4	443.1	463.2	434.3	418.0	396.7	389.2
60°	6513.9	5428.0	1659.5	482.0	446.9	434.3	435.6	425.6	404.2	377.9	366.6
62.5°	6570.4	5446.8	1395.9	454.4	421.8	420.5	410.5	406.7	397.9	381.6	376.6
65°	6522.7	5233.4	1114.7	420.5	400.4	401.7	386.6	374.1	354.0	327.6	325.1
67.5°	6195.0	4858.1	854.9	377.9	367.8	380.4	364.0	342.7	320.1	302.5	305.0
70°	5633.9	4413.7	600.0	318.9	330.2	352.7	346.5	318.9	293.7	278.7	281.2
72.5°	5010.0	3739.6	408.0	248.6	268.6	316.3	316.3	297.5	272.4	252.3	247.3
75°	3951.8	2937.5	263.6	164.4	177.0	258.6	279.9	251.1	223.4	210.9	205.9
77.5°	2682.6	1913.1	168.2	94.1	118.0	169.5	220.9	224.7	264.9	266.1	254.8
80°	1576.7	1094.6	102.9	55.2	59.0	97.9	177.0	222.2	281.2	198.3	182.0
82.5°	784.6	467.0	46.4	33.9	35.1	49.0	95.4	254.8	217.2	124.3	119.3
85°	174.5	76.6	18.8	17.6	20.1	25.1	49.0	210.9	133.1	100.4	97.9
87.5°	6.3	5.0	5.0	5.0	3.8	3.8	10.0	69.0	52.7	43.9	41.4
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)