

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: P509580

Luminaire Tested: **VERD-G-CA2-130-722-U-T2-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509580
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-3)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-CA2-130-722-U-T2-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1200mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14024 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

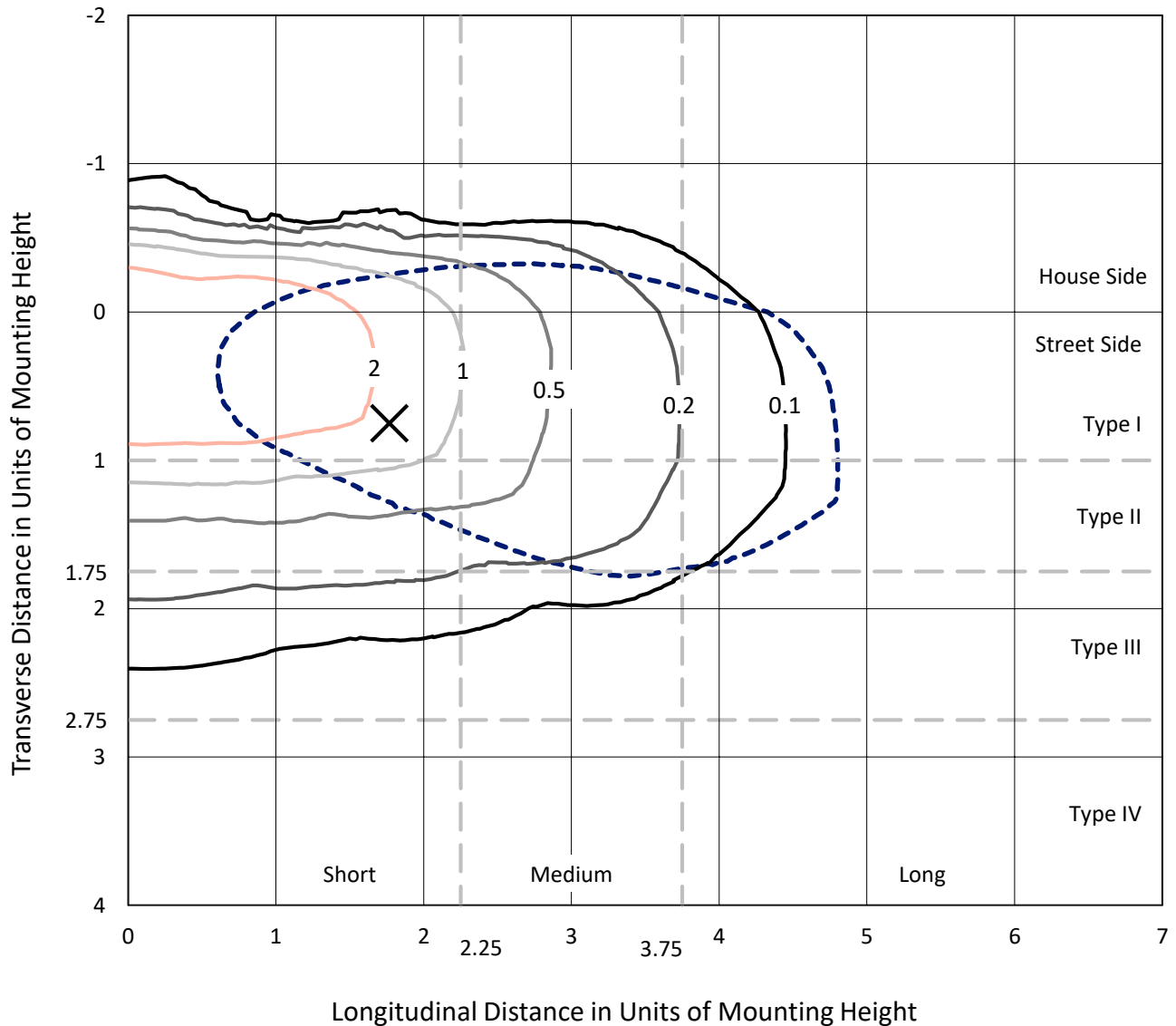
Input Watts (W): 133.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

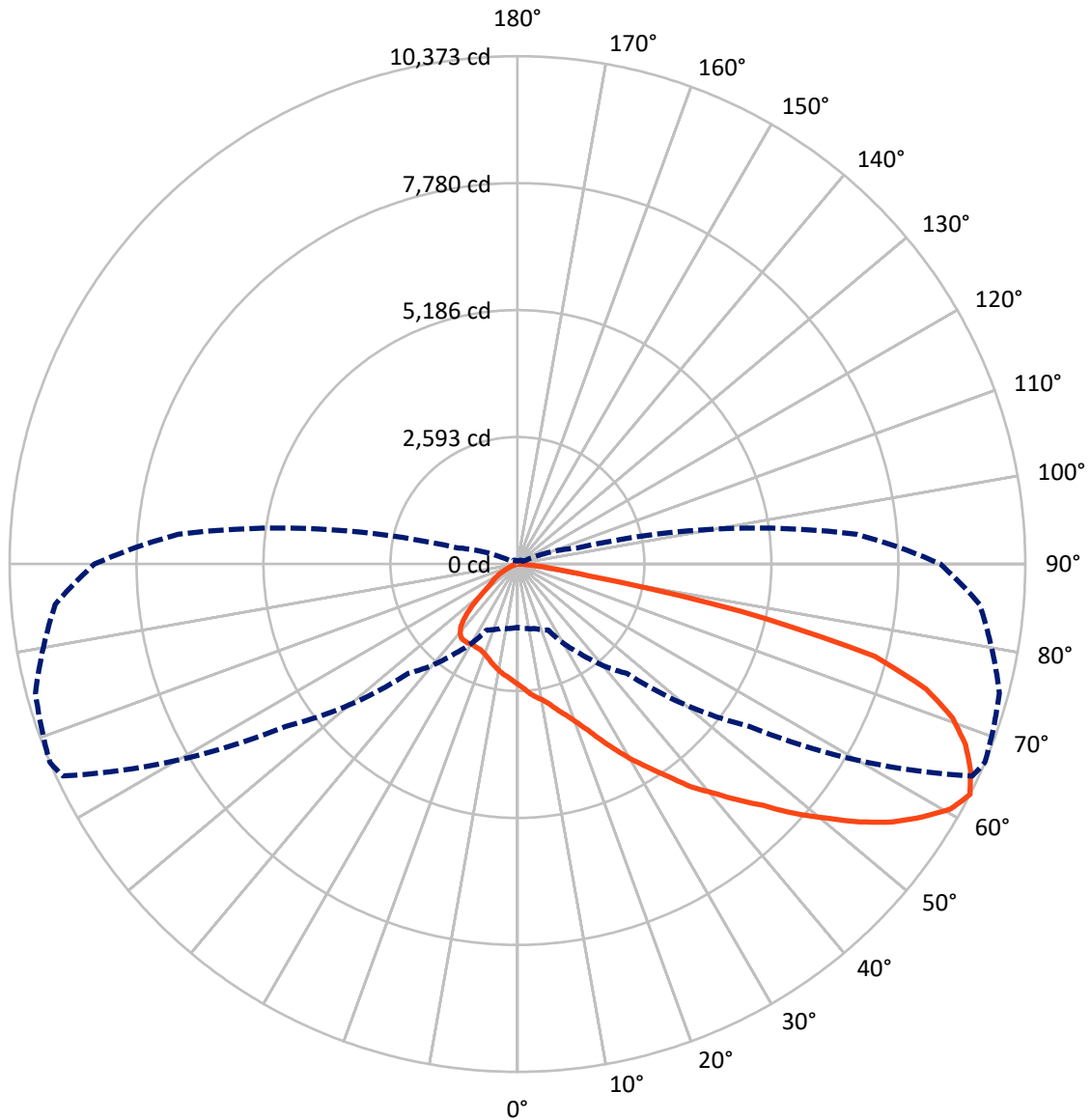
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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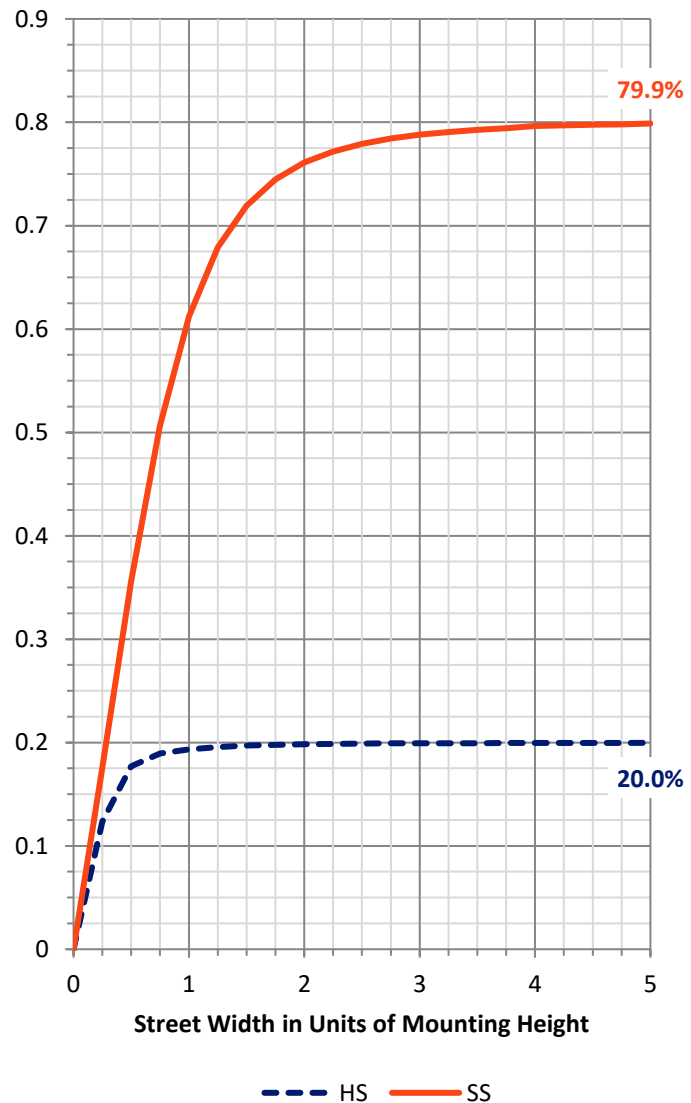
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2833.9	0.0	2833.9
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	11190.1	0.0	11190.1
	% Fixture	79.8	0.0	79.8
Total	Lumens	14024.0	0.0	14024.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.1	1.7
10°-20°	718.1	5.1
20°-30°	1224.9	8.7
30°-40°	1794.5	12.8
40°-50°	2368.2	16.9
50°-60°	2786.9	19.9
60°-70°	2866.4	20.4
70°-80°	1857.1	13.2
80°-90°	170.0	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°	14024.0	100.0
0°-180°	14024.0	100.0



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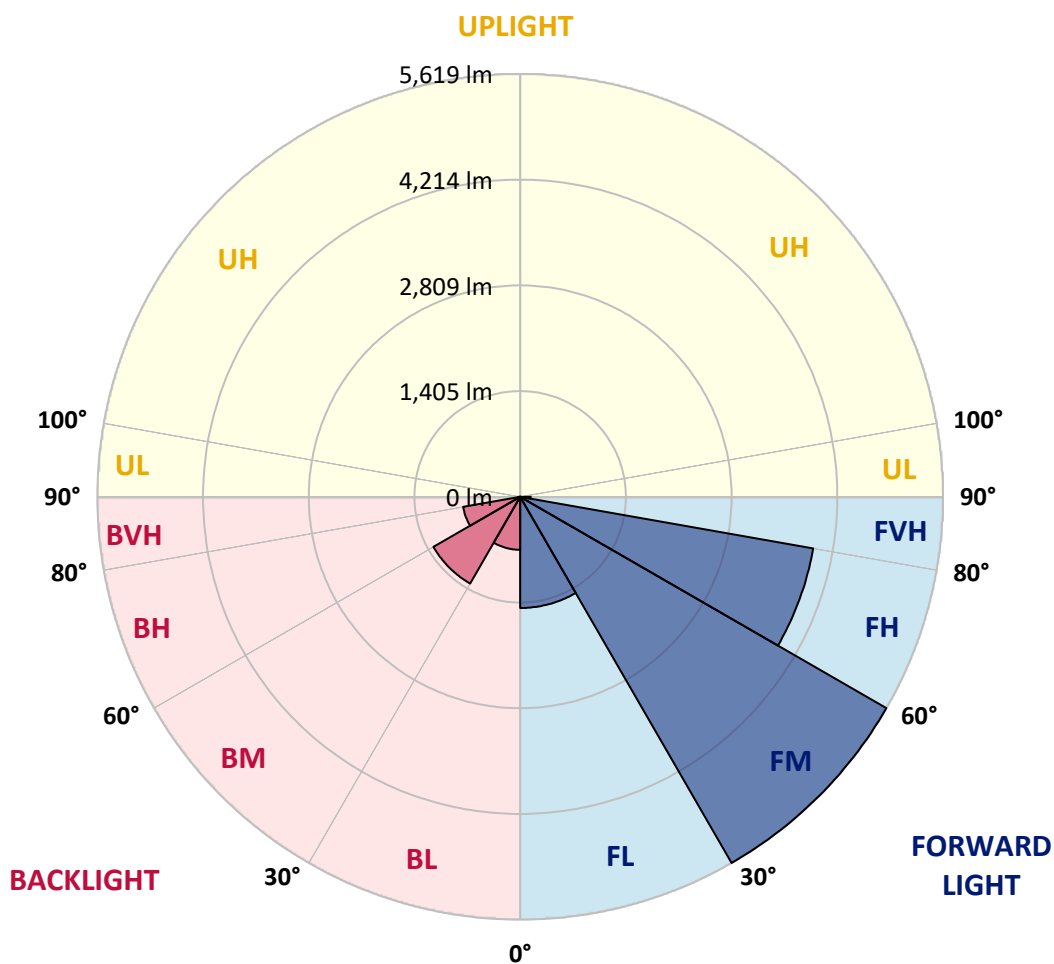
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1476.7	10.5			
FM (30°-60°)	5618.7	40.1			
FH (60°-80°)	3954.0	28.2			G2/5000
FVH (80°-90°)	140.6	1.0			G2/225
BL (0°-30°)	704.3	5.0	B2/1000		
BM (30°-60°)	1330.8	9.5	B2/2500		
BH (60°-80°)	769.4	5.5	B2/1000		G2/1000
BVH (80°-90°)	29.4	0.2			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°	67°	75°	85°
0°	2464.1	2464.1	2464.1	2464.1	2464.1	2464.1	2464.1	2464.1	2464.1	2464.1	2464.1
2.5°	2732.9	2729.8	2700.5	2673.2	2655.1	2654.1	2606.6	2564.1	2544.9	2522.7	2473.2
5°	2874.3	2898.5	2866.2	2825.8	2793.5	2769.2	2727.8	2679.3	2659.1	2606.6	2531.8
7.5°	3079.4	3079.4	3049.1	3014.7	2977.3	2912.7	2842.0	2757.1	2747.0	2688.4	2590.4
10°	3178.4	3202.6	3163.2	3122.8	3081.4	3048.1	2952.1	2848.0	2822.8	2734.9	2613.6
12.5°	3316.8	3316.8	3295.6	3261.2	3213.8	3147.1	3085.5	2980.4	2937.9	2806.6	2655.1
15°	3447.1	3436.0	3417.8	3361.3	3337.0	3295.6	3214.8	3104.6	3096.6	2951.1	2718.7
17.5°	3549.2	3531.0	3513.8	3483.5	3454.2	3438.0	3380.5	3284.5	3251.1	3117.8	2838.9
20°	3601.7	3616.9	3575.4	3574.4	3583.5	3571.4	3533.0	3461.3	3447.1	3288.5	2961.2
22.5°	3661.3	3681.5	3671.4	3681.5	3708.8	3729.0	3727.0	3711.8	3689.6	3516.8	3158.2
25°	3674.5	3661.3	3703.8	3797.7	3866.4	3914.9	4009.9	3990.7	3984.6	3832.1	3425.9
27.5°	3634.0	3646.2	3712.8	3848.2	4025.0	4157.4	4235.2	4331.1	4309.9	4191.7	3748.2
30°	3609.8	3631.0	3718.9	3877.5	4114.9	4354.4	4508.0	4627.2	4645.4	4551.4	4065.4
32.5°	3525.9	3554.2	3645.2	3900.8	4202.8	4565.5	4756.5	4978.7	4970.7	4932.3	4451.4
35°	3396.6	3434.0	3573.4	3870.5	4301.8	4755.5	5009.1	5332.4	5338.4	5354.6	4818.1
37.5°	3292.6	3304.7	3463.3	3780.5	4341.3	4909.0	5244.5	5681.9	5779.9	5756.7	5234.4
40°	3125.9	3162.2	3334.0	3670.4	4337.2	5013.1	5483.9	6091.1	6143.6	6216.4	5669.8
42.5°	2920.8	2960.2	3124.9	3520.9	4280.6	5104.0	5714.2	6508.3	6582.1	6696.3	6068.9
45°	2723.8	2740.9	2895.5	3302.7	4170.5	5175.8	5938.5	6919.5	7032.7	7196.4	6471.0
47.5°	2478.3	2524.7	2697.5	3074.3	3927.0	5202.0	6104.2	7404.5	7612.6	7712.6	6929.6
50°	1906.4	1935.7	2420.7	2873.3	3662.3	5120.2	6319.4	8019.7	8151.1	8255.1	7394.4
52.5°	1680.1	1706.4	1894.3	2640.9	3367.3	4908.0	6450.8	8591.6	8750.2	8728.0	7861.1
55°	1585.2	1598.3	1679.1	2155.0	3098.6	4514.0	6542.7	9215.9	9301.8	9158.4	8323.8
57.5°	1475.0	1490.2	1550.8	1806.4	2795.5	4014.9	6465.9	9716.0	9748.4	9570.6	8736.0
60°	1377.0	1387.1	1478.1	1616.5	2466.1	3531.0	6271.9	10075.7	10165.6	9873.6	9180.6
62.5°	1293.2	1317.4	1364.9	1487.2	2235.8	3156.2	5780.9	10245.4	10372.7	10190.9	9475.6
65°	1210.3	1221.5	1276.0	1384.1	1988.3	2934.9	5500.1	10022.2	10170.7	10233.3	9657.4
67.5°	1097.2	1113.3	1166.9	1244.7	1658.9	2719.7	4844.4	9659.5	9871.6	10010.0	9549.3
70°	964.8	979.0	1033.5	1098.2	1385.1	2402.5	4088.7	9289.7	9429.1	9438.2	9066.4
72.5°	811.3	824.4	879.0	943.6	1149.7	2000.4	3204.7	8413.8	8725.9	8924.0	8256.2
75°	516.3	572.8	708.2	781.0	946.6	1618.5	2286.3	6717.5	7537.8	8103.6	7144.8
77.5°	83.9	94.0	277.8	396.0	550.6	1097.2	1269.9	3721.9	4681.7	6772.0	5768.8
80°	63.6	71.7	101.0	268.7	353.6	683.0	500.1	1208.3	1456.9	3166.3	3231.9
82.5°	27.3	32.3	60.6	150.5	166.7	181.9	134.4	540.5	639.5	962.8	1121.4
85°	9.1	12.1	28.3	47.5	52.5	40.4	29.3	214.2	263.7	461.7	427.4
87.5°	0.0	1.0	6.1	7.1	6.1	4.0	3.0	2.0	2.0	3.0	3.0
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°	2464.1	2464.1	2464.1	2464.1	2464.1	2464.1	2464.1	2464.1	2464.1	2464.1	2464.1
2.5°	2463.1	2428.8	2424.7	2383.3	2345.9	2303.5	2277.2	2268.1	2280.2	2292.4	2304.5
5°	2493.4	2440.9	2388.3	2302.5	2264.1	2217.6	2156.0	2118.6	2101.4	2116.6	2121.6
7.5°	2515.6	2448.0	2367.1	2249.9	2167.1	2078.2	2019.6	1956.9	1922.6	1928.7	1933.7
10°	2519.7	2444.9	2307.5	2194.4	2061.0	1938.8	1862.0	1832.7	1809.4	1789.2	1792.3
12.5°	2557.1	2446.9	2257.0	2119.6	1979.2	1821.6	1735.7	1698.3	1694.3	1652.8	1648.8
15°	2607.6	2491.4	2230.7	2051.9	1872.1	1723.6	1621.5	1554.8	1556.9	1535.7	1532.6
17.5°	2689.4	2534.8	2211.5	1973.1	1759.9	1623.5	1494.2	1433.6	1414.4	1408.4	1403.3
20°	2781.4	2598.5	2188.3	1903.4	1661.9	1503.3	1358.9	1297.2	1243.7	1227.5	1229.5
22.5°	2916.7	2682.3	2207.5	1850.9	1552.8	1386.1	1242.7	1122.4	1030.5	1006.3	1003.2
25°	3156.2	2848.0	2265.1	1805.4	1485.1	1272.0	1079.0	910.3	789.0	762.8	764.8
27.5°	3422.9	3066.3	2344.9	1786.2	1399.3	1145.7	880.0	692.1	578.9	548.6	550.6
30°	3739.1	3325.9	2466.1	1732.7	1307.3	961.8	655.7	507.2	419.3	383.9	385.9
32.5°	4043.2	3585.5	2621.7	1724.6	1192.2	722.4	473.8	368.8	297.0	270.8	273.8
35°	4378.6	3882.6	2785.4	1684.2	1003.2	518.3	332.4	255.6	217.2	209.1	208.1
37.5°	4758.5	4147.3	2906.6	1646.8	750.7	364.7	227.3	197.0	192.0	180.8	180.8
40°	5111.1	4423.1	2997.6	1547.8	525.4	247.5	177.8	178.8	173.8	158.6	155.6
42.5°	5436.4	4708.0	3081.4	1389.2	355.6	168.7	159.6	162.7	164.7	147.5	143.5
45°	5805.2	5059.6	3063.2	1150.7	226.3	152.6	143.5	152.6	162.7	145.5	141.4
47.5°	6209.3	5317.2	3101.6	830.5	159.6	144.5	133.4	145.5	153.6	142.5	136.4
50°	6665.9	5654.6	2985.4	482.9	146.5	136.4	128.3	133.4	145.5	139.4	132.3
52.5°	7084.2	5955.7	2826.8	236.4	138.4	128.3	120.2	124.3	136.4	129.3	131.3
55°	7436.8	6268.9	2504.5	168.7	133.4	119.2	116.2	117.2	124.3	115.2	121.2
57.5°	7869.2	6526.5	2177.2	157.6	129.3	113.2	114.2	106.1	108.1	103.1	97.0
60°	8254.1	6770.0	1732.7	145.5	123.3	116.2	103.1	91.9	85.9	82.8	81.8
62.5°	8639.1	6954.9	1277.0	132.3	117.2	105.1	90.9	78.8	68.7	64.7	63.6
65°	8784.5	7053.9	871.9	121.2	110.1	96.0	80.8	63.6	52.5	48.5	45.5
67.5°	8676.4	6743.7	505.1	109.1	106.1	87.9	70.7	51.5	40.4	37.4	35.4
70°	8175.3	6256.8	269.7	99.0	92.9	77.8	62.6	42.4	32.3	28.3	27.3
72.5°	7313.5	5380.8	141.4	82.8	77.8	63.6	49.5	35.4	26.3	21.2	20.2
75°	6210.3	4224.1	99.0	60.6	53.5	49.5	37.4	28.3	21.2	16.2	15.2
77.5°	4902.0	2745.0	74.8	39.4	31.3	32.3	27.3	23.2	17.2	12.1	12.1
80°	2531.8	1426.5	56.6	26.3	18.2	19.2	19.2	17.2	13.1	9.1	9.1
82.5°	1004.2	525.4	39.4	15.2	11.1	12.1	11.1	11.1	9.1	6.1	6.1
85°	331.4	115.2	14.1	9.1	7.1	7.1	6.1	5.1	3.0	2.0	2.0
87.5°	3.0	3.0	4.0	5.1	5.1	4.0	3.0	1.0	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)