

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: P509588

Luminaire Tested: **VERD-G-CA2-130-727-U-T2-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509588
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-CA2-130-727-U-T2-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1200mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14572 lumens
Efficiency: N/A
Efficacy: 108.8 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

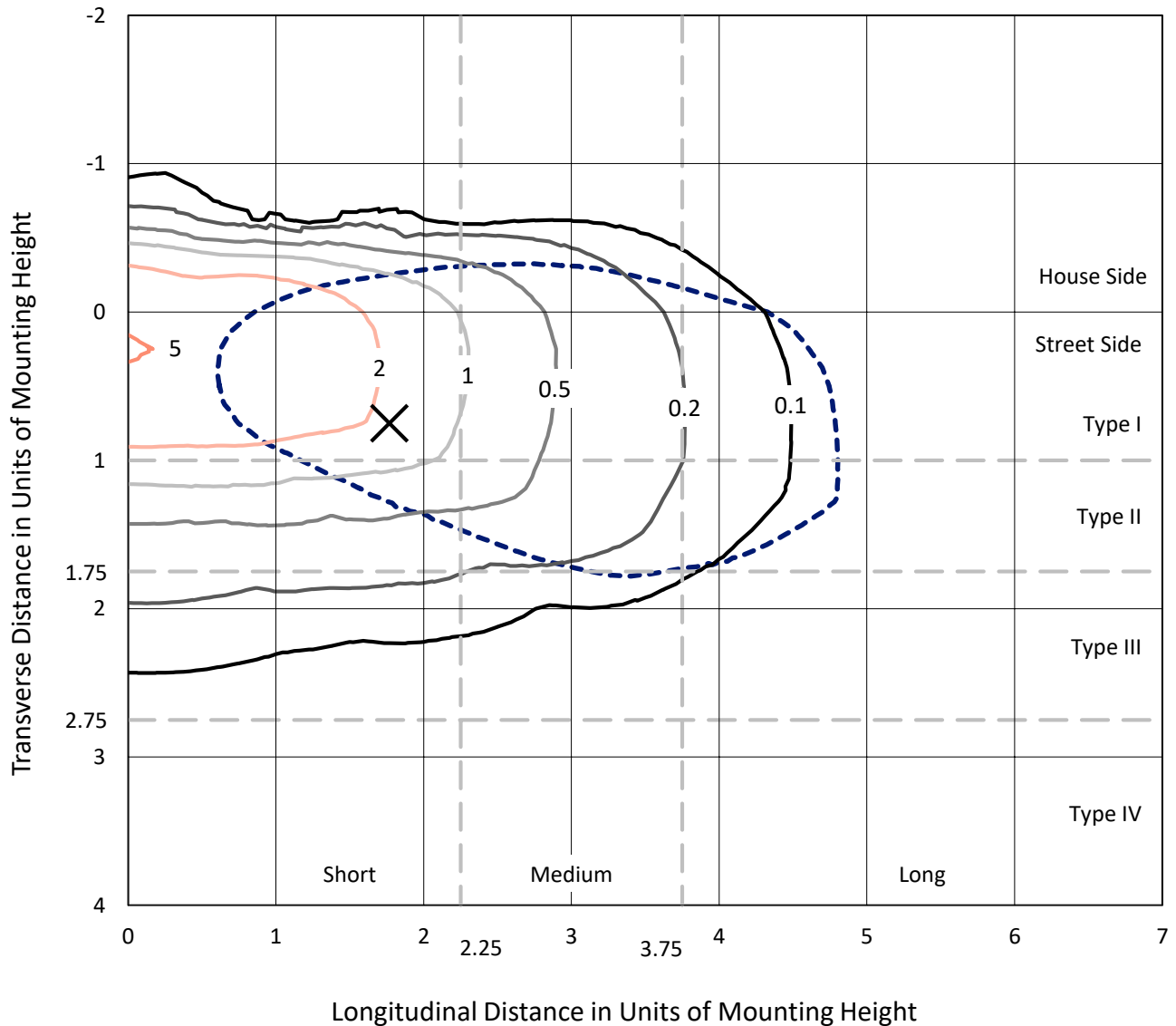
Input Watts (W): 133.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

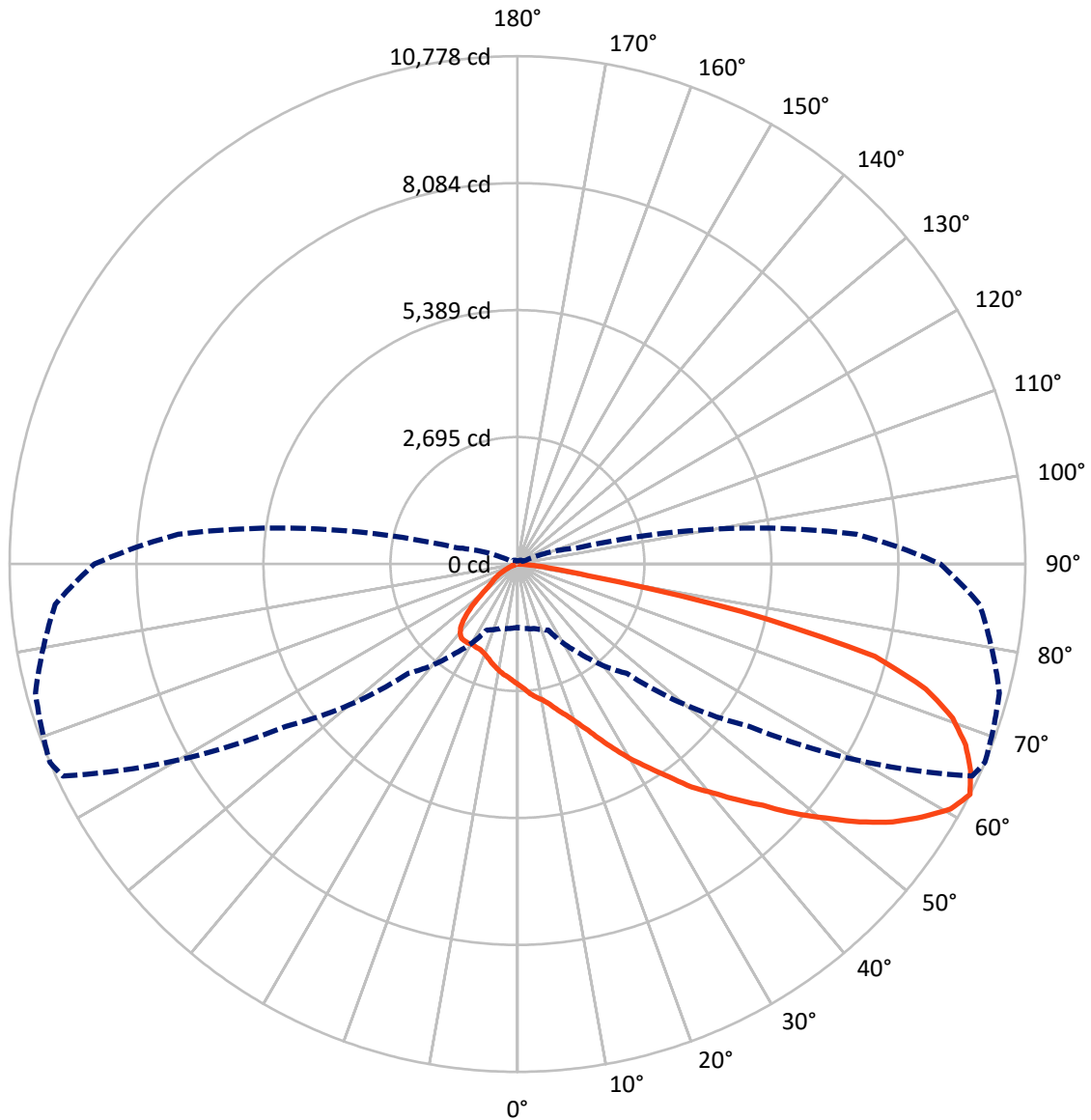
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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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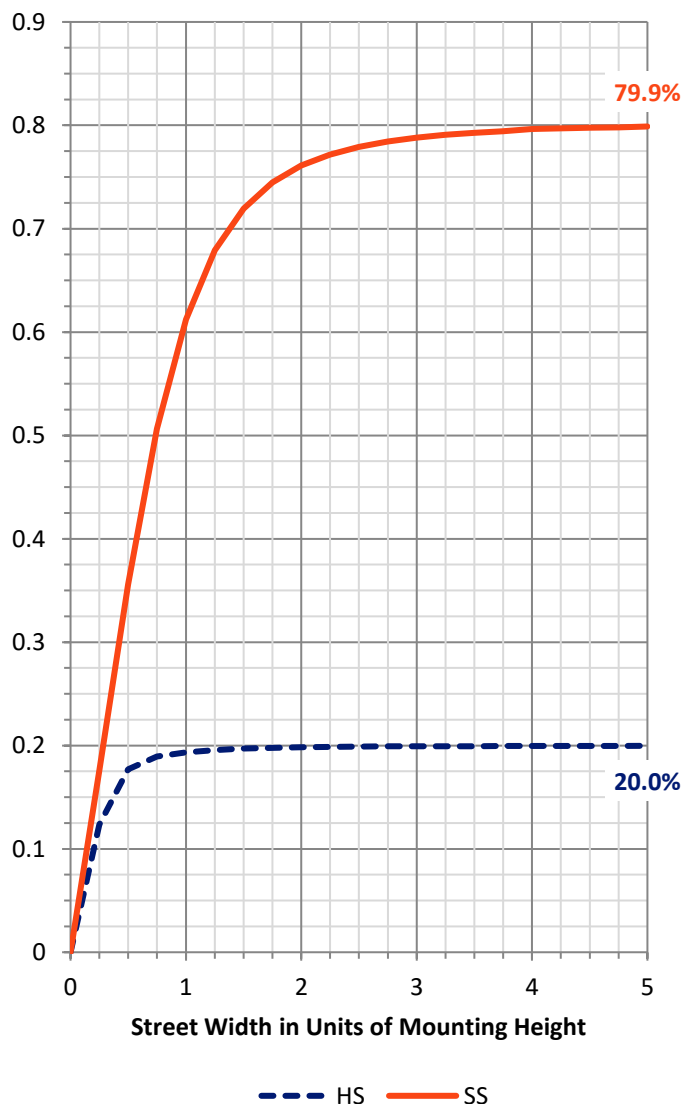
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2944.7	0.0	2944.7
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	11627.3	0.0	11627.3
	% Fixture	79.8	0.0	79.8
Total	Lumens	14572.0	0.0	14572.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.4	1.7
10°-20°	746.1	5.1
20°-30°	1272.7	8.7
30°-40°	1864.6	12.8
40°-50°	2460.7	16.9
50°-60°	2895.8	19.9
60°-70°	2978.4	20.4
70°-80°	1929.6	13.2
80°-90°	176.6	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°	14572.0	100.0
0°-180°	14572.0	100.0

Coefficient of Utilization



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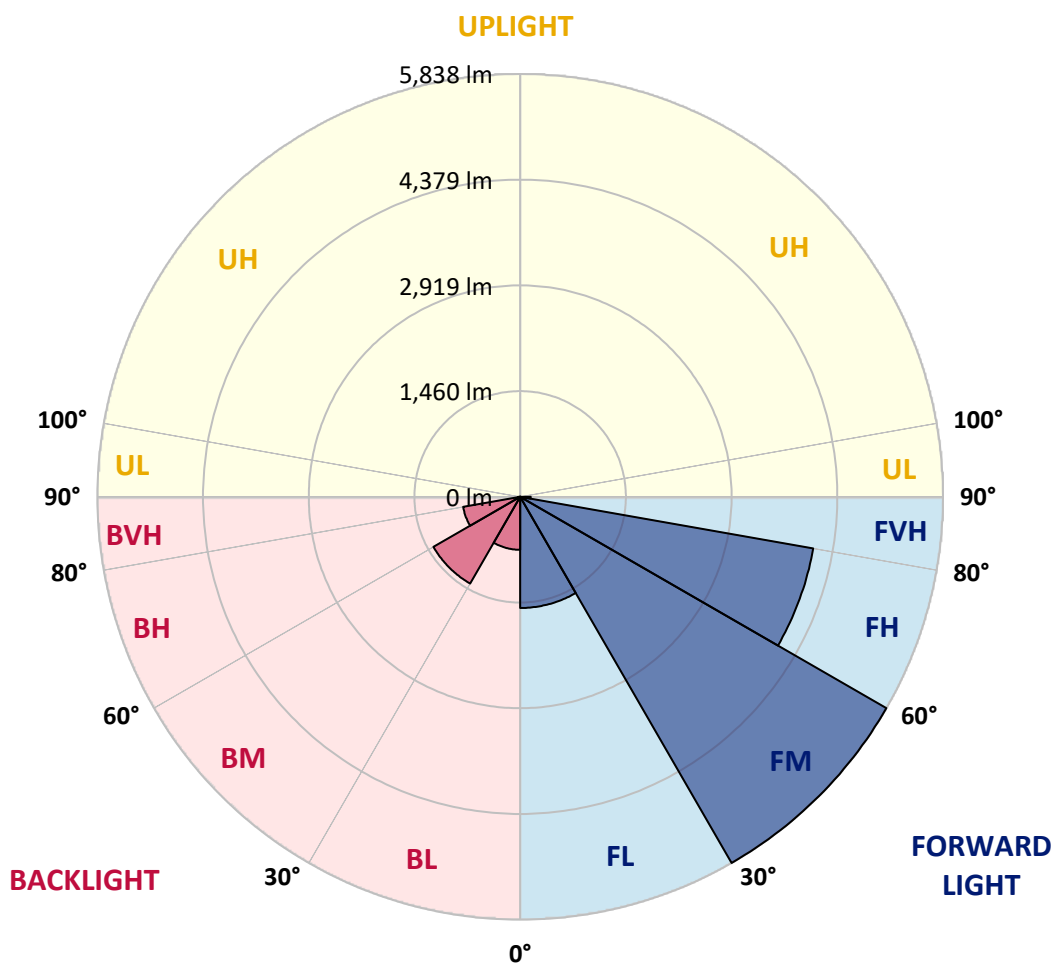
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1534.4	10.5			
FM (30°-60°)	5838.3	40.1			
FH (60°-80°)	4108.5	28.2			G2/5000
FVH (80°-90°)	146.1	1.0			G2/225
BL (0°-30°)	731.9	5.0	B2/1000		
BM (30°-60°)	1382.8	9.5	B2/2500		
BH (60°-80°)	799.5	5.5	B2/1000		G2/1000
BVH (80°-90°)	30.5	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°	2560.4	2560.4	2560.4	2560.4	2560.4	2560.4	2560.4	2560.4	2560.4	2560.4	2560.4
2.5°	2839.6	2836.5	2806.1	2777.7	2758.8	2757.8	2708.4	2664.3	2644.4	2621.3	2569.9
5°	2986.6	3011.8	2978.2	2936.2	2902.6	2877.4	2834.4	2784.0	2763.0	2708.4	2630.7
7.5°	3199.7	3199.7	3168.2	3132.5	3093.7	3026.5	2953.0	2864.8	2854.3	2793.5	2691.6
10°	3302.6	3327.8	3286.9	3244.9	3201.8	3167.2	3067.4	2959.3	2933.1	2841.7	2715.8
12.5°	3446.4	3446.4	3424.4	3388.7	3339.3	3270.1	3206.0	3096.8	3052.8	2916.3	2758.8
15°	3581.8	3570.3	3551.4	3492.6	3467.4	3424.4	3340.4	3226.0	3217.6	3066.4	2824.9
17.5°	3687.9	3669.0	3651.1	3619.6	3589.2	3572.4	3512.6	3412.8	3378.2	3239.6	2949.9
20°	3742.5	3758.2	3715.2	3714.1	3723.6	3711.0	3671.1	3596.5	3581.8	3417.0	3076.9
22.5°	3804.4	3825.4	3814.9	3825.4	3853.7	3874.7	3872.6	3856.9	3833.8	3654.3	3281.6
25°	3818.0	3804.4	3848.5	3946.1	4017.5	4067.9	4166.6	4146.6	4140.3	3981.8	3559.8
27.5°	3776.0	3788.6	3857.9	3998.6	4182.3	4319.8	4400.7	4500.4	4478.3	4355.5	3894.7
30°	3750.9	3772.9	3864.2	4029.0	4275.7	4524.5	4684.1	4808.0	4826.9	4729.2	4224.3
32.5°	3663.7	3693.1	3787.6	4053.2	4367.1	4743.9	4942.3	5173.3	5164.9	5125.0	4625.3
35°	3529.3	3568.2	3713.1	4021.7	4469.9	4941.3	5204.8	5540.7	5547.0	5563.8	5006.4
37.5°	3421.2	3433.8	3598.6	3928.3	4510.9	5100.9	5449.4	5903.9	6005.8	5981.6	5438.9
40°	3248.0	3285.8	3464.3	3813.8	4506.7	5209.0	5698.2	6329.1	6383.7	6459.3	5891.3
42.5°	3034.9	3075.8	3247.0	3658.5	4447.9	5303.5	5937.5	6762.7	6839.3	6957.9	6306.0
45°	2830.2	2848.0	3008.7	3431.7	4333.5	5378.0	6170.6	7189.9	7307.5	7477.6	6723.8
47.5°	2575.1	2623.4	2802.9	3194.5	4080.5	5405.3	6342.7	7693.8	7910.1	8014.0	7200.4
50°	1980.9	2011.4	2515.3	2985.6	3805.4	5320.3	6566.4	8333.1	8469.6	8577.7	7683.3
52.5°	1745.8	1773.1	1968.3	2744.1	3498.9	5099.8	6702.8	8927.3	9092.1	9069.0	8168.3
55°	1647.1	1660.7	1744.7	2239.2	3219.7	4690.4	6798.4	9576.1	9665.3	9516.2	8649.1
57.5°	1532.7	1548.4	1611.4	1877.0	2904.7	4171.8	6718.6	10095.7	10129.3	9944.5	9077.4
60°	1430.8	1441.3	1535.8	1679.6	2562.5	3669.0	6517.0	10469.4	10562.9	10259.5	9539.3
62.5°	1343.7	1368.9	1418.2	1545.3	2323.2	3279.5	6006.8	10645.8	10778.1	10589.1	9845.9
65°	1257.6	1269.2	1325.9	1438.2	2066.0	3049.6	5715.0	10413.8	10568.1	10633.2	10034.8
67.5°	1140.1	1156.9	1212.5	1293.3	1723.7	2826.0	5033.7	10036.9	10257.4	10401.2	9922.5
70°	1002.5	1017.2	1073.9	1141.1	1439.2	2496.4	4248.4	9652.7	9797.6	9807.0	9420.7
72.5°	843.0	856.6	913.3	980.5	1194.6	2078.6	3329.9	8742.5	9066.9	9272.7	8578.8
75°	536.4	595.2	735.9	811.5	983.6	1681.7	2375.6	6980.0	7832.4	8420.3	7424.0
77.5°	87.1	97.6	288.7	411.5	572.1	1140.1	1319.6	3867.4	4864.7	7036.7	5994.2
80°	66.1	74.5	105.0	279.2	367.4	709.6	519.6	1255.5	1513.8	3290.0	3358.2
82.5°	28.3	33.6	63.0	156.4	173.2	189.0	139.6	561.6	664.5	1000.4	1165.3
85°	9.4	12.6	29.4	49.3	54.6	42.0	30.4	222.6	274.0	479.7	444.1
87.5°	0.0	1.0	6.3	7.3	6.3	4.2	3.1	2.1	2.1	3.1	3.1
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°	2560.4	2560.4	2560.4	2560.4	2560.4	2560.4	2560.4	2560.4	2560.4	2560.4	2560.4
2.5°	2559.4	2523.7	2519.5	2476.4	2437.6	2393.5	2366.2	2356.7	2369.3	2381.9	2394.5
5°	2590.8	2536.3	2481.7	2392.4	2352.5	2304.3	2240.2	2201.4	2183.5	2199.3	2204.5
7.5°	2613.9	2543.6	2459.6	2337.9	2251.8	2159.4	2098.5	2033.4	1997.7	2004.0	2009.3
10°	2618.1	2540.5	2397.7	2280.1	2141.5	2014.5	1934.7	1904.3	1880.1	1859.2	1862.3
12.5°	2657.0	2542.6	2345.2	2202.4	2056.5	1892.7	1803.5	1764.7	1760.5	1717.4	1713.2
15°	2709.5	2588.7	2317.9	2132.1	1945.2	1790.9	1684.9	1615.6	1617.7	1595.7	1592.5
17.5°	2794.5	2633.9	2298.0	2050.2	1828.7	1687.0	1552.6	1489.6	1469.7	1463.4	1458.1
20°	2890.0	2700.0	2273.8	1977.8	1726.9	1562.1	1411.9	1347.9	1292.3	1275.5	1277.6
22.5°	3030.7	2787.2	2293.8	1923.2	1613.5	1440.3	1291.2	1166.3	1070.8	1045.6	1042.4
25°	3279.5	2959.3	2353.6	1876.0	1543.2	1321.7	1121.2	945.8	819.9	792.6	794.7
27.5°	3556.6	3186.1	2436.5	1856.0	1453.9	1190.4	914.4	719.1	601.5	570.0	572.1
30°	3885.2	3455.9	2562.5	1800.4	1358.4	999.4	681.3	527.0	435.7	398.9	401.0
32.5°	4201.2	3725.7	2724.2	1792.0	1238.7	750.6	492.3	383.2	308.6	281.3	284.5
35°	4549.7	4034.3	2894.2	1750.0	1042.4	538.5	345.4	265.6	225.7	217.3	216.3
37.5°	4944.4	4309.3	3020.2	1711.1	780.0	379.0	236.2	204.7	199.5	187.9	187.9
40°	5310.8	4595.9	3114.7	1608.3	545.9	257.2	184.8	185.8	180.6	164.8	161.7
42.5°	5648.8	4892.0	3201.8	1443.4	369.5	175.3	165.9	169.0	171.1	153.3	149.1
45°	6032.0	5257.3	3182.9	1195.7	235.1	158.5	149.1	158.5	169.0	151.2	147.0
47.5°	6451.9	5525.0	3222.8	862.9	165.9	150.1	138.6	151.2	159.6	148.0	141.7
50°	6926.4	5875.6	3102.1	501.8	152.2	141.7	133.3	138.6	151.2	144.9	137.5
52.5°	7361.0	6188.4	2937.3	245.6	143.8	133.3	124.9	129.1	141.7	134.4	136.5
55°	7727.4	6513.9	2602.4	175.3	138.6	123.9	120.7	121.8	129.1	119.7	126.0
57.5°	8176.7	6781.6	2262.3	163.8	134.4	117.6	118.6	110.2	112.3	107.1	100.8
60°	8576.7	7034.6	1800.4	151.2	128.1	120.7	107.1	95.5	89.2	86.1	85.0
62.5°	8976.6	7226.7	1326.9	137.5	121.8	109.2	94.5	81.9	71.4	67.2	66.1
65°	9127.8	7329.5	906.0	126.0	114.4	99.7	84.0	66.1	54.6	50.4	47.2
67.5°	9015.5	7007.3	524.9	113.4	110.2	91.3	73.5	53.5	42.0	38.8	36.7
70°	8494.8	6501.3	280.3	102.9	96.6	80.8	65.1	44.1	33.6	29.4	28.3
72.5°	7599.3	5591.1	147.0	86.1	80.8	66.1	51.4	36.7	27.3	22.0	21.0
75°	6453.0	4389.1	102.9	63.0	55.6	51.4	38.8	29.4	22.0	16.8	15.7
77.5°	5093.5	2852.2	77.7	40.9	32.5	33.6	28.3	24.1	17.8	12.6	12.6
80°	2630.7	1482.3	58.8	27.3	18.9	19.9	19.9	17.8	13.6	9.4	9.4
82.5°	1043.5	545.9	40.9	15.7	11.5	12.6	11.5	11.5	9.4	6.3	6.3
85°	344.3	119.7	14.7	9.4	7.3	7.3	6.3	5.2	3.1	2.1	2.1
87.5°	3.1	3.1	4.2	5.2	5.2	4.2	3.1	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)