

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: P509118

Luminaire Tested: **VERD-CA2-110-730-U-T3-HSS**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509118
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-5)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-110-730-U-T3-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1020mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14785 lumens
Efficiency: N/A
Efficacy: 130.1 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

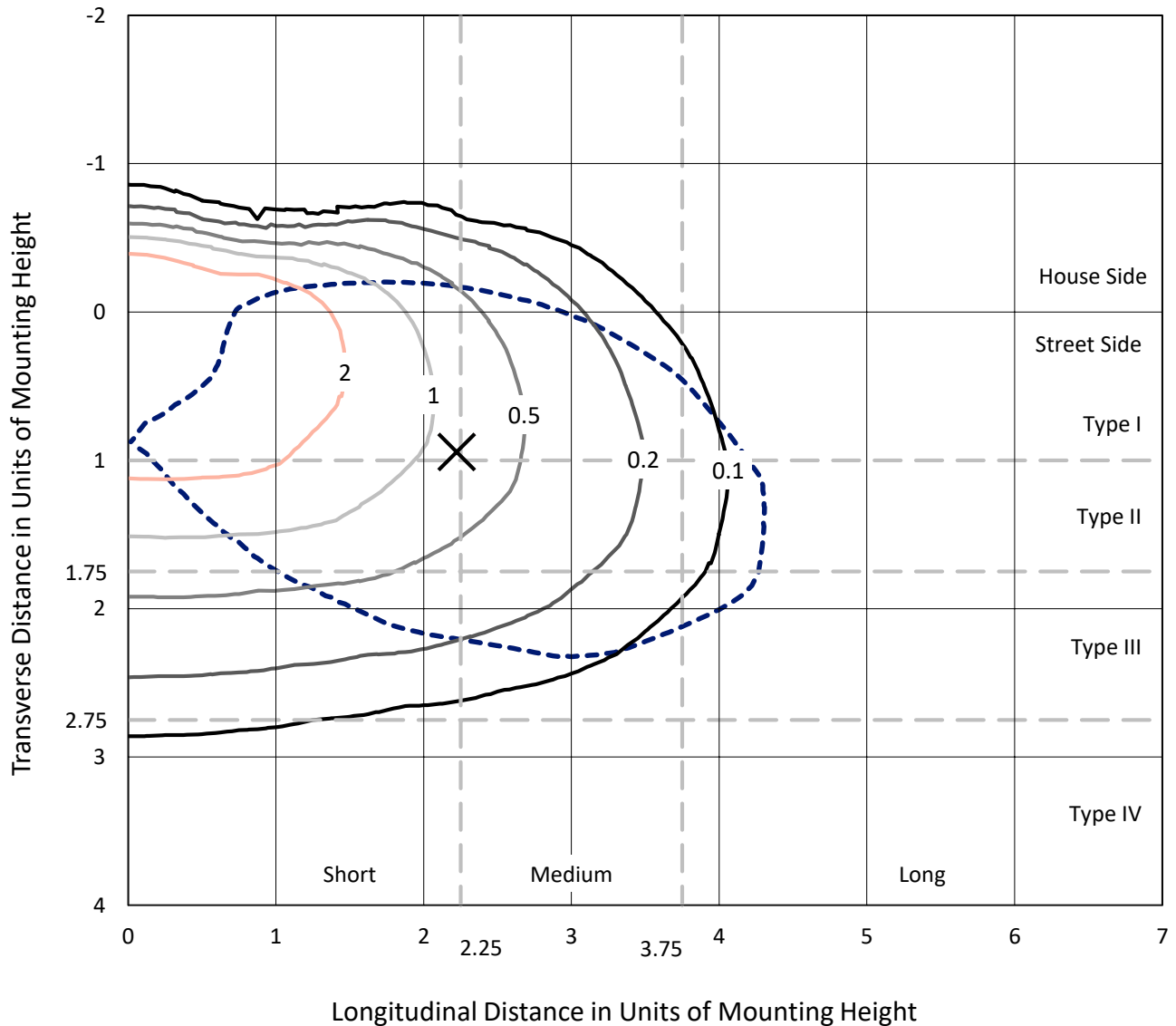
Input Watts (W): 113.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

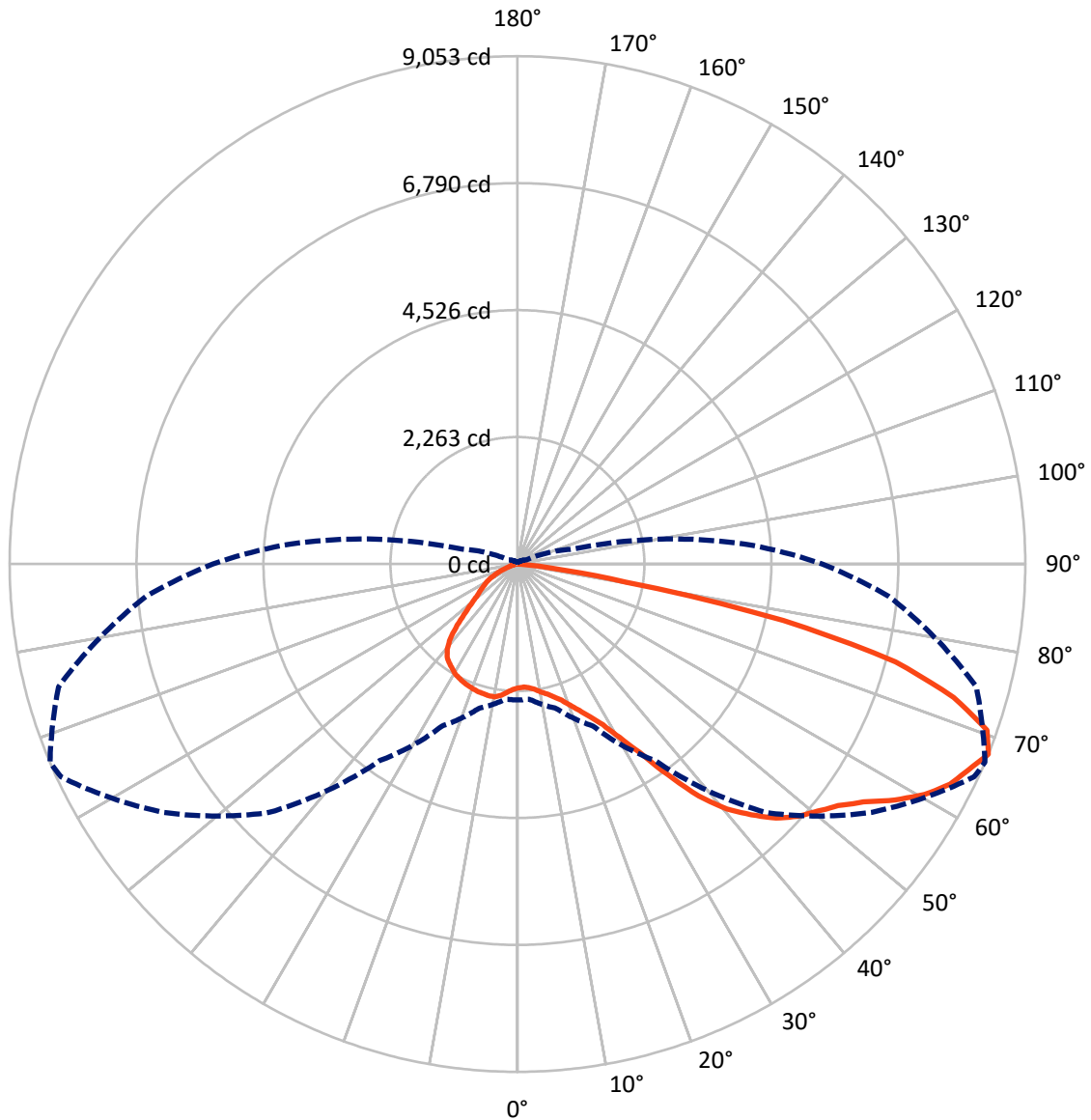
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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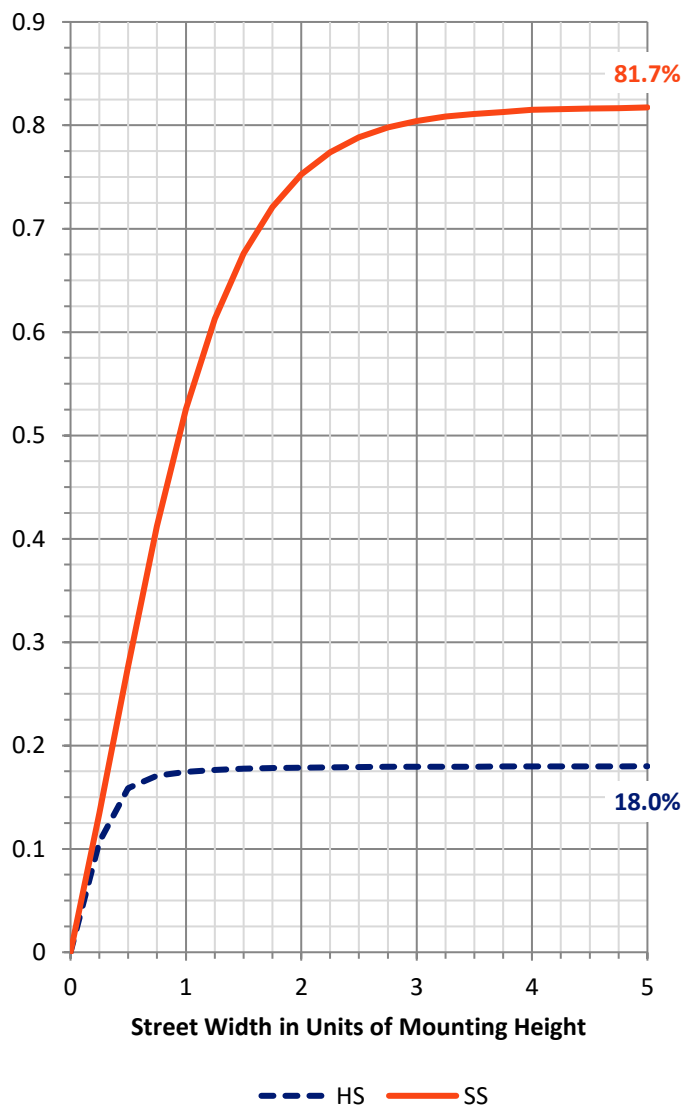
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2693.9	0.0	2693.9
	% Fixture	18.2	0.0	18.2
Street Side	Lumens	12091.1	0.0	12091.1
	% Fixture	81.8	0.0	81.8
Total	Lumens	14785.0	0.0	14785.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.2	1.5
10°-20°	692.7	4.7
20°-30°	1182.0	8.0
30°-40°	1839.8	12.4
40°-50°	2597.1	17.6
50°-60°	3128.0	21.2
60°-70°	3232.6	21.9
70°-80°	1780.8	12.0
80°-90°	111.0	0.8
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°	14785.0	100.0
0°-180°	14785.0	100.0

Coefficient of Utilization



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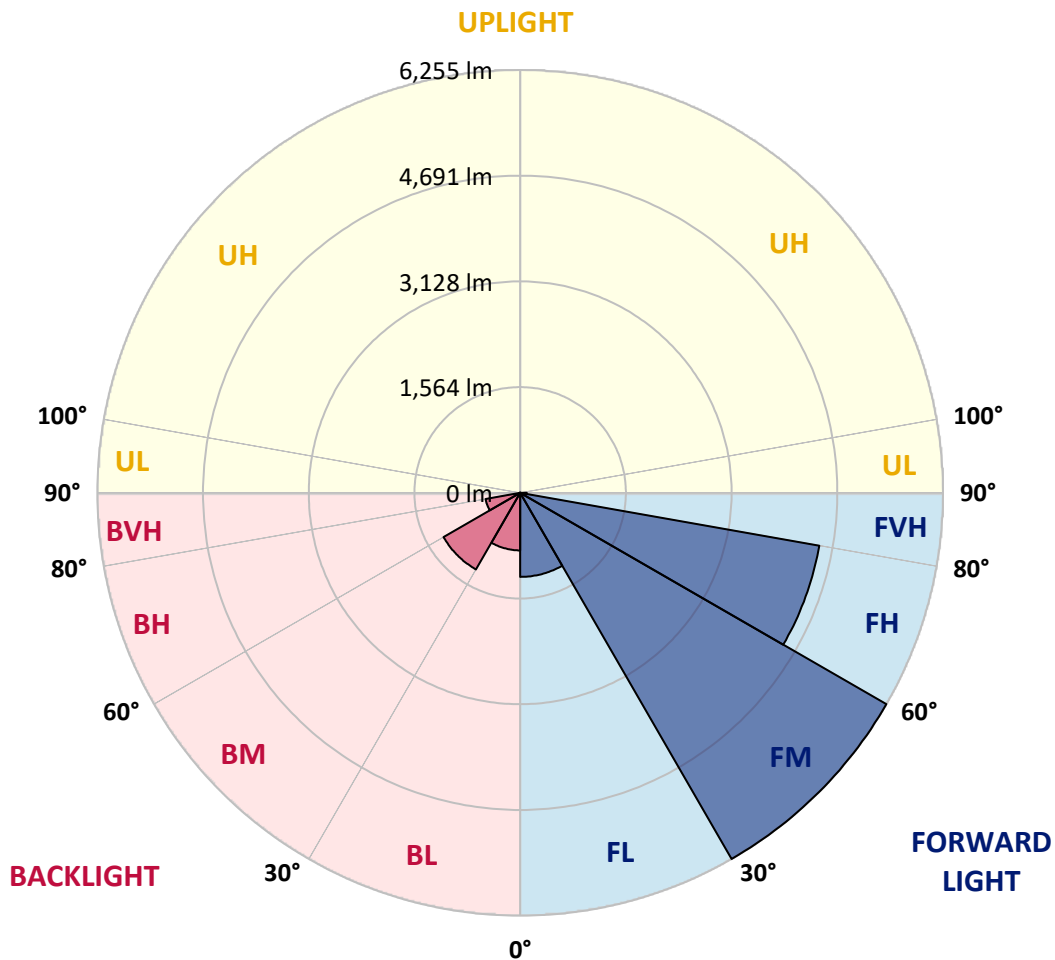
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1244.1	8.4			
FM	(30°-60°)	6255.3	42.3			
FH	(60°-80°)	4494.1	30.4			G2/5000
FVH	(80°-90°)	97.6	0.7			G1/100
BL	(0°-30°)	851.8	5.8	B2/1000		
BM	(30°-60°)	1309.6	8.9	B2/2500		
BH	(60°-80°)	519.2	3.5	B2/1000		G2/1000
BVH	(80°-90°)	13.4	0.1			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2207.6	2207.6	2207.6	2207.6	2207.6	2207.6	2207.6	2207.6	2207.6	2207.6	2207.6
2.5°	2187.0	2209.3	2209.3	2202.4	2205.9	2190.5	2180.2	2192.2	2195.6	2205.9	2219.5
5°	2229.8	2255.5	2253.8	2241.8	2231.5	2217.8	2204.1	2214.4	2216.1	2219.5	2236.7
7.5°	2320.5	2344.5	2334.2	2322.2	2317.1	2286.3	2257.2	2255.5	2258.9	2269.2	2288.0
10°	2438.6	2457.4	2454.0	2435.2	2421.5	2375.3	2334.2	2318.8	2320.5	2323.9	2356.5
12.5°	2572.1	2597.7	2578.9	2553.2	2529.3	2462.6	2406.1	2383.8	2380.4	2389.0	2416.3
15°	2703.8	2731.2	2717.5	2702.1	2647.4	2573.8	2501.9	2466.0	2462.6	2462.6	2479.7
17.5°	2876.7	2887.0	2878.4	2856.1	2794.5	2702.1	2616.6	2563.5	2555.0	2560.1	2563.5
20°	3068.3	3087.2	3076.9	3052.9	2964.0	2864.7	2756.9	2693.6	2688.4	2693.6	2661.1
22.5°	3301.1	3307.9	3302.8	3263.4	3183.0	3051.2	2909.2	2837.3	2837.3	2842.5	2775.7
25°	3499.6	3540.7	3528.7	3480.8	3386.6	3272.0	3100.9	3011.9	3017.0	3020.4	2928.0
27.5°	3730.6	3764.8	3756.3	3720.4	3658.7	3513.3	3307.9	3249.7	3244.6	3239.5	3095.7
30°	3951.4	3977.0	3994.2	3985.6	3936.0	3799.1	3616.0	3573.2	3586.9	3576.6	3328.5
32.5°	4131.1	4175.6	4223.5	4233.7	4220.0	4098.5	3965.1	3987.3	4004.4	4125.9	3977.0
35°	4285.1	4333.0	4411.7	4493.9	4509.3	4461.3	4394.6	4557.2	4606.8	4854.9	4697.5
37.5°	4445.9	4487.0	4565.7	4695.8	4781.4	4807.0	4872.1	5128.7	5248.5	5462.4	5169.8
40°	4519.5	4560.6	4697.5	4861.8	5039.8	5183.5	5313.6	5611.3	5744.8	5809.8	5429.9
42.5°	4445.9	4485.3	4706.1	5015.8	5257.1	5575.4	5722.6	6020.3	6109.3	6102.5	5749.9
45°	4374.1	4411.7	4642.7	5055.2	5453.9	5936.5	6061.4	6395.1	6460.1	6378.0	5934.8
47.5°	4281.7	4333.0	4572.6	5031.2	5630.2	6263.3	6378.0	6662.1	6720.2	6598.7	6147.0
50°	4168.7	4213.2	4492.1	4993.6	5746.5	6508.0	6629.6	6911.9	6927.3	6814.4	6338.6
52.5°	4038.7	4062.6	4365.5	4918.3	5847.5	6687.7	6826.3	7122.4	7158.3	7127.5	6566.2
55°	3845.3	3888.1	4213.2	4800.2	5854.3	6781.9	6978.7	7420.2	7485.2	7413.3	6704.8
57.5°	3641.6	3687.8	4025.0	4635.9	5753.4	6841.8	7255.9	7806.9	7935.3	7704.2	6817.8
60°	3417.5	3458.5	3790.5	4392.9	5573.7	6927.3	7541.7	8260.4	8340.8	7952.4	6893.1
62.5°	3157.3	3189.9	3506.4	4098.5	5298.2	6905.1	7788.1	8624.9	8650.6	8174.8	6886.2
65°	2840.7	2839.0	3133.4	3687.8	4846.4	6727.1	7832.6	8808.0	8838.8	8318.6	6824.6
67.5°	2423.2	2418.1	2664.5	3186.4	4276.5	6263.3	7714.5	8979.2	9052.7	8469.2	6645.0
70°	1899.5	1906.4	2092.9	2558.4	3470.5	5556.6	7403.1	8864.5	8879.9	8180.0	6179.5
72.5°	1343.4	1339.9	1466.6	1781.5	2565.2	4338.1	6506.3	8082.4	8130.4	7464.7	5383.7
75°	616.1	641.7	958.3	1088.4	1548.7	2953.7	5352.9	6867.4	6959.8	6425.9	4197.8
77.5°	114.7	118.1	205.4	414.1	605.8	1066.1	3198.4	4651.3	4844.7	4379.2	2365.0
80°	90.7	92.4	121.5	198.5	253.3	479.2	1052.4	1916.6	1959.4	1707.9	852.2
82.5°	66.7	68.5	90.7	128.3	118.1	207.1	438.1	557.9	592.1	551.0	338.8
85°	39.4	41.1	53.1	63.3	61.6	82.1	73.6	66.7	59.9	49.6	42.8
87.5°	10.3	13.7	22.2	22.2	17.1	15.4	13.7	12.0	13.7	12.0	12.0
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°	2207.6	2207.6	2207.6	2207.6	2207.6	2207.6	2207.6	2207.6	2207.6	2207.6	2207.6
2.5°	2223.0	2221.3	2226.4	2240.1	2252.1	2253.8	2270.9	2293.1	2282.9	2312.0	2301.7
5°	2246.9	2252.1	2270.9	2293.1	2313.7	2330.8	2356.5	2394.1	2382.1	2409.5	2399.2
7.5°	2301.7	2310.2	2339.3	2361.6	2385.5	2380.4	2402.7	2424.9	2397.5	2426.6	2412.9
10°	2366.7	2377.0	2394.1	2402.7	2395.8	2392.4	2387.3	2383.8	2347.9	2368.4	2359.9
12.5°	2424.9	2426.6	2421.5	2399.2	2383.8	2342.8	2323.9	2315.4	2260.6	2276.0	2265.8
15°	2481.4	2457.4	2431.7	2380.4	2337.6	2274.3	2233.2	2197.3	2146.0	2166.5	2146.0
17.5°	2543.0	2507.0	2440.3	2365.0	2277.7	2185.3	2118.6	2060.4	1983.4	1980.0	1973.1
20°	2621.7	2568.7	2460.8	2337.6	2212.7	2074.1	1968.0	1870.4	1754.1	1738.7	1707.9
22.5°	2721.0	2642.2	2491.6	2301.7	2132.3	1957.7	1778.0	1617.2	1470.0	1423.8	1406.7
25°	2835.6	2738.1	2508.8	2269.2	2055.3	1788.3	1543.6	1334.8	1162.0	1112.3	1098.7
27.5°	2979.4	2859.6	2534.4	2221.3	1932.1	1581.2	1262.9	1031.9	877.9	797.5	785.5
30°	3177.9	2994.8	2570.4	2173.3	1783.2	1338.2	978.9	710.2	564.7	516.8	508.3
32.5°	3718.6	3316.5	2609.7	2087.8	1586.4	1067.8	650.3	453.5	355.9	316.6	313.2
35°	4404.9	3905.2	2753.5	1990.2	1348.5	741.0	403.9	270.4	217.3	201.9	201.9
37.5°	4848.1	4362.1	2993.1	1853.3	1035.3	453.5	243.0	176.3	166.0	164.3	164.3
40°	5080.8	4564.0	3165.9	1665.1	693.1	263.5	171.1	152.3	148.9	145.5	145.5
42.5°	5376.9	4736.9	3314.8	1410.1	402.2	184.8	150.6	138.6	133.5	130.1	130.1
45°	5541.2	4925.1	3220.7	1107.2	229.3	166.0	138.6	124.9	119.8	119.8	119.8
47.5°	5702.0	5104.8	3100.9	795.8	195.1	152.3	130.1	116.4	111.2	114.7	114.7
50°	5885.1	5226.3	2910.9	595.5	184.8	142.0	118.1	106.1	102.7	107.8	107.8
52.5°	6056.3	5238.3	2606.3	475.7	171.1	131.8	109.5	97.5	94.1	97.5	97.5
55°	6105.9	5200.6	2519.0	378.2	162.6	121.5	102.7	90.7	82.1	82.1	80.4
57.5°	6093.9	5127.0	2306.8	320.0	152.3	111.2	94.1	80.4	70.2	66.7	66.7
60°	6052.8	5024.4	2082.6	278.9	142.0	102.7	83.9	68.5	58.2	54.8	54.8
62.5°	6001.5	4831.0	1766.1	243.0	131.8	99.3	70.2	56.5	49.6	46.2	46.2
65°	5785.9	4529.8	1413.5	207.1	121.5	87.3	61.6	49.6	42.8	39.4	39.4
67.5°	5428.2	4071.2	1021.6	176.3	112.9	73.6	54.8	42.8	35.9	34.2	32.5
70°	4894.3	3438.0	633.2	152.3	97.5	66.7	47.9	37.6	32.5	27.4	27.4
72.5°	4079.7	2691.9	332.0	119.8	77.0	56.5	42.8	34.2	27.4	24.0	22.2
75°	2868.1	1660.0	239.6	92.4	53.1	46.2	35.9	29.1	24.0	20.5	18.8
77.5°	1384.4	571.6	167.7	68.5	37.6	34.2	27.4	24.0	18.8	17.1	17.1
80°	506.5	325.1	119.8	49.6	30.8	27.4	20.5	18.8	15.4	13.7	13.7
82.5°	227.6	154.0	68.5	32.5	22.2	20.5	15.4	12.0	12.0	12.0	12.0
85°	37.6	32.5	22.2	15.4	12.0	10.3	10.3	8.6	8.6	8.6	8.6
87.5°	10.3	10.3	8.6	8.6	6.8	5.1	3.4	3.4	3.4	5.1	5.1
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)