

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: P509510

Luminaire Tested: **VERD-G-CA2-110-740-U-T3-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509510
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-5)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-CA2-110-740-U-T3-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1020mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15196 lumens
Efficiency: N/A
Efficacy: 134.2 lumens/watt
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

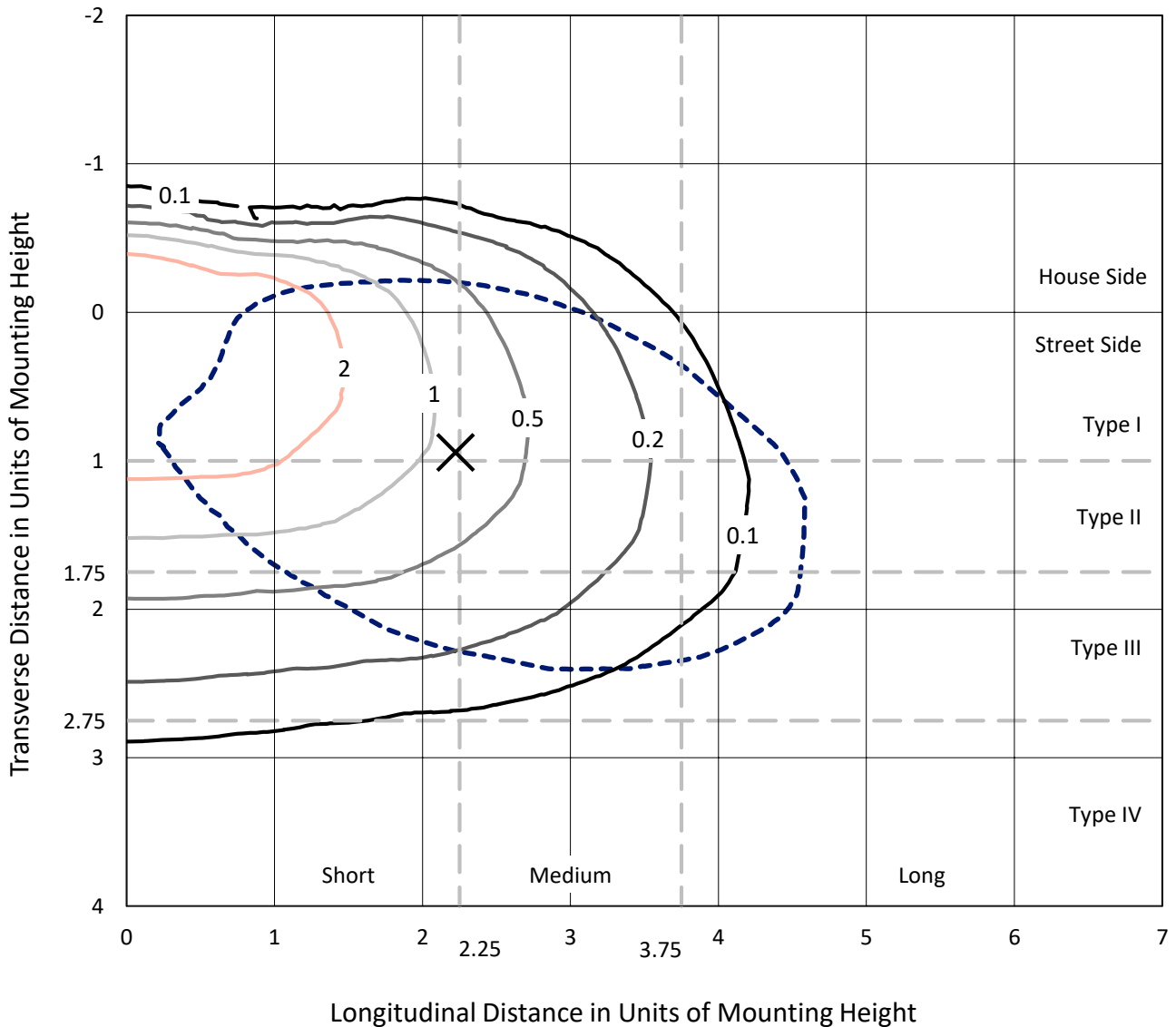
Input Watts (W): 113.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

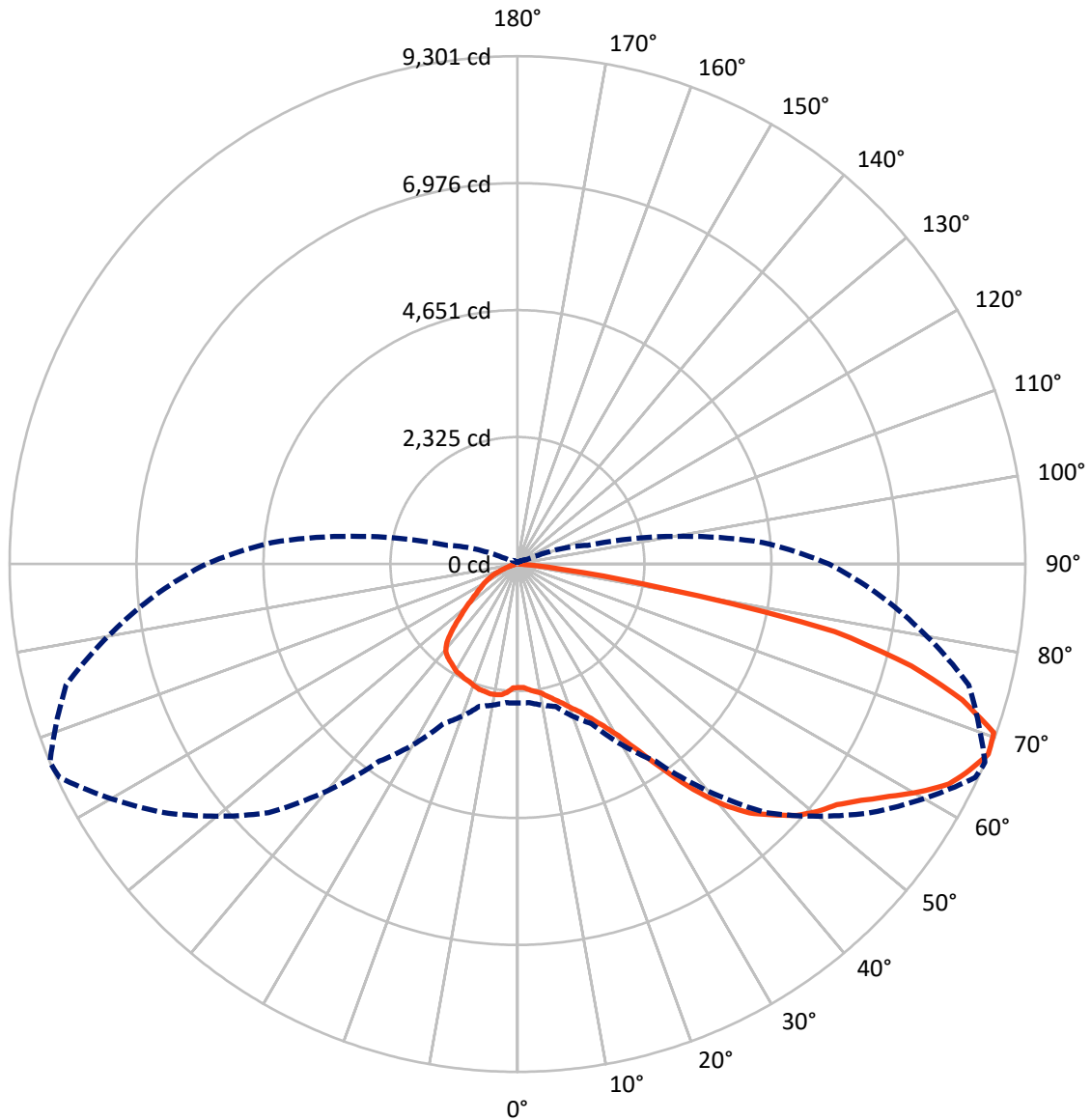
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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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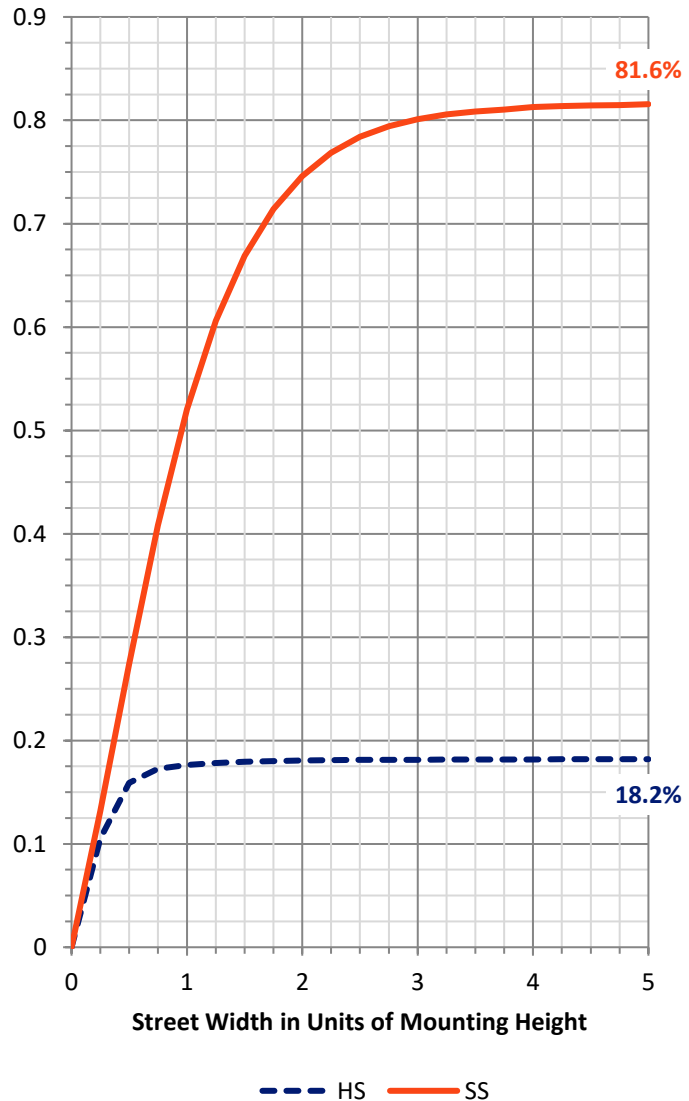
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2797.0	0.0	2797.0
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	12399.0	0.0	12399.0
	% Fixture	81.6	0.0	81.6
Total	Lumens	15196.0	0.0	15196.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.5	1.5
10°-20°	711.3	4.7
20°-30°	1212.7	8.0
30°-40°	1849.6	12.2
40°-50°	2607.4	17.2
50°-60°	3151.7	20.7
60°-70°	3319.3	21.8
70°-80°	1974.5	13.0
80°-90°	141.9	0.9
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°	15196.0	100.0
0°-180°	15196.0	100.0

Coefficient of Utilization



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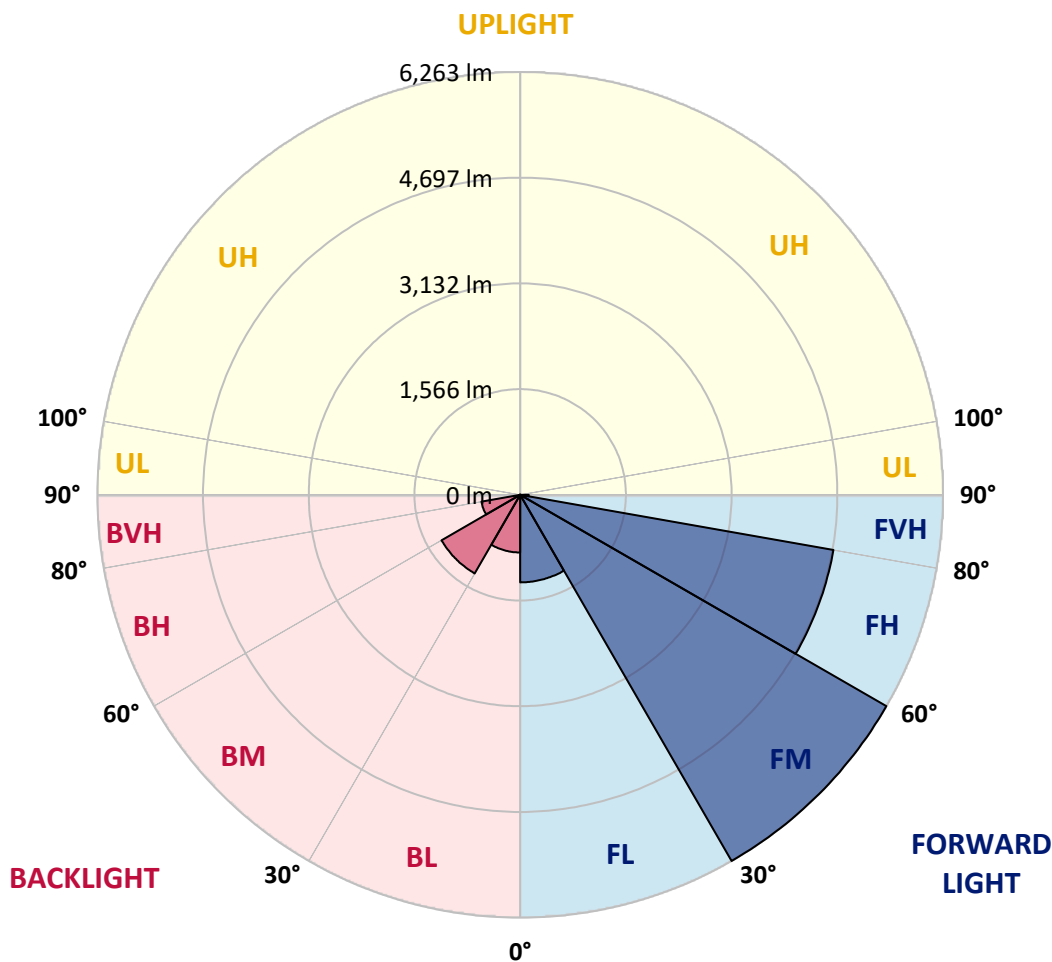
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1297.3	8.5			
FM	(30°-60°)	6263.1	41.2			
FH	(60°-80°)	4711.5	31.0			G2/5000
FVH	(80°-90°)	127.0	0.8			G2/225
BL	(0°-30°)	854.2	5.6	B2/1000		
BM	(30°-60°)	1345.6	8.9	B2/2500		
BH	(60°-80°)	582.3	3.8	B2/1000		G2/1000
BVH	(80°-90°)	14.9	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°	2262.2	2262.2	2262.2	2262.2	2262.2	2262.2	2262.2	2262.2	2262.2	2262.2	2262.2
2.5°	2310.0	2318.7	2301.3	2297.0	2274.2	2277.4	2273.1	2262.2	2266.6	2257.9	2263.3
5°	2399.2	2376.3	2369.8	2356.8	2336.1	2324.2	2306.8	2301.3	2313.3	2303.5	2305.7
7.5°	2493.8	2498.1	2468.7	2443.7	2406.8	2398.1	2367.7	2349.2	2361.1	2348.1	2355.7
10°	2612.2	2618.8	2587.2	2553.5	2522.0	2476.4	2438.3	2409.0	2405.7	2399.2	2410.0
12.5°	2767.7	2766.6	2731.8	2690.5	2628.5	2597.0	2524.2	2482.9	2488.3	2464.4	2462.2
15°	2948.1	2932.9	2892.7	2850.3	2773.1	2711.2	2623.1	2572.0	2580.7	2553.5	2547.0
17.5°	3124.3	3109.0	3077.5	3030.8	2960.1	2864.4	2756.8	2682.9	2680.7	2667.7	2628.5
20°	3304.7	3311.2	3268.8	3226.4	3155.8	3027.5	2905.8	2810.1	2812.3	2789.4	2713.3
22.5°	3515.6	3503.6	3452.6	3433.0	3352.5	3212.3	3076.4	2966.6	2944.9	2940.5	2809.0
25°	3716.7	3709.1	3662.4	3639.5	3572.1	3443.9	3267.7	3136.2	3133.0	3118.8	2932.9
27.5°	3876.5	3885.2	3880.9	3864.6	3790.6	3664.5	3510.2	3352.5	3354.7	3334.1	3093.8
30°	4103.7	4077.6	4067.8	4080.9	4074.4	3938.5	3774.3	3660.2	3652.6	3599.3	3297.1
32.5°	4236.3	4249.4	4262.4	4308.1	4309.2	4208.1	4101.5	4047.2	4077.6	4086.3	3802.6
35°	4358.1	4358.1	4433.1	4548.3	4588.5	4553.8	4508.1	4576.6	4636.4	4757.0	4424.4
37.5°	4466.8	4498.3	4569.0	4713.6	4845.1	4878.8	4978.8	5166.9	5239.7	5349.5	4948.4
40°	4558.1	4580.9	4671.2	4848.4	5074.5	5228.8	5415.8	5714.8	5790.9	5770.2	5239.7
42.5°	4457.0	4494.0	4638.6	5002.7	5287.5	5577.8	5822.4	6145.2	6237.6	6046.3	5546.3
45°	4402.7	4416.8	4567.9	4981.0	5444.1	5931.1	6208.3	6554.0	6554.0	6339.8	5762.6
47.5°	4293.9	4319.0	4498.3	4952.7	5610.4	6225.7	6506.1	6858.4	6881.2	6617.0	5977.8
50°	4184.2	4215.7	4419.0	4902.7	5703.9	6521.4	6759.4	7112.7	7121.4	6807.3	6168.1
52.5°	4075.4	4091.8	4319.0	4870.1	5807.2	6673.6	6977.9	7319.3	7323.6	7092.1	6377.9
55°	3880.9	3921.1	4155.9	4750.5	5801.7	6743.1	7092.1	7595.4	7637.8	7401.9	6584.4
57.5°	3698.2	3710.2	3966.7	4577.7	5713.7	6823.6	7337.8	7991.1	8032.4	7683.5	6737.7
60°	3454.7	3467.8	3743.9	4372.2	5583.2	6904.0	7649.8	8453.1	8471.6	7979.1	6852.9
62.5°	3200.4	3244.9	3472.1	4057.0	5312.5	6918.1	7913.9	8879.2	8871.6	8235.7	6929.0
65°	2901.4	2917.7	3136.2	3688.4	4898.4	6810.5	8022.6	9085.8	9104.3	8416.1	6879.0
67.5°	2542.7	2549.2	2699.2	3229.7	4408.1	6439.8	7932.4	9254.3	9301.0	8557.5	6670.3
70°	2008.9	2018.7	2156.8	2661.2	3712.4	5872.4	7780.2	9273.8	9254.3	8430.3	6352.9
72.5°	1400.2	1386.0	1520.8	1866.5	2811.2	4829.9	7045.3	8484.6	8519.4	7799.8	5688.7
75°	670.7	675.1	942.5	1148.0	1578.4	3450.4	5863.7	7306.2	7451.9	6797.5	4634.2
77.5°	114.1	116.3	248.9	452.2	635.9	1448.0	3888.5	5819.1	5943.0	5335.4	3137.3
80°	91.3	91.3	121.8	243.5	337.0	600.1	1473.0	2579.6	2714.4	2416.6	1156.6
82.5°	62.0	65.2	87.0	142.4	119.6	234.8	534.8	816.4	838.1	759.9	475.1
85°	34.8	35.9	44.6	57.6	50.0	87.0	109.8	112.0	118.5	92.4	70.7
87.5°	4.3	9.8	9.8	9.8	4.3	4.3	3.3	3.3	4.3	3.3	3.3
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°	2262.2	2262.2	2262.2	2262.2	2262.2	2262.2	2262.2	2262.2	2262.2	2262.2	2262.2
2.5°	2260.0	2247.0	2275.2	2269.8	2289.4	2286.1	2302.4	2311.1	2329.6	2353.5	2351.3
5°	2307.9	2306.8	2340.5	2356.8	2374.2	2390.5	2391.6	2407.9	2424.2	2460.1	2459.0
7.5°	2353.5	2363.3	2411.1	2412.2	2418.7	2430.7	2414.4	2419.8	2424.2	2437.2	2441.6
10°	2406.8	2425.3	2426.4	2422.0	2401.4	2400.3	2363.3	2367.7	2348.1	2363.3	2355.7
12.5°	2475.3	2460.1	2451.4	2422.0	2390.5	2348.1	2313.3	2265.5	2254.6	2254.6	2257.9
15°	2542.7	2519.8	2444.8	2398.1	2340.5	2273.1	2216.5	2162.2	2135.0	2123.1	2120.9
17.5°	2601.4	2553.5	2447.0	2386.1	2277.4	2178.5	2093.7	2006.7	1964.3	1937.2	1932.8
20°	2649.2	2598.1	2453.5	2347.0	2208.9	2063.3	1935.0	1825.2	1741.5	1679.5	1686.1
22.5°	2729.6	2648.1	2449.2	2300.3	2129.6	1940.4	1746.9	1595.8	1455.6	1420.8	1430.6
25°	2826.4	2719.9	2474.2	2272.0	2037.2	1786.1	1531.7	1356.7	1206.7	1158.8	1162.1
27.5°	2938.4	2806.8	2502.4	2225.2	1941.5	1595.8	1289.3	1072.9	953.4	858.8	851.2
30°	3116.6	2925.3	2532.9	2194.8	1807.8	1383.8	1025.1	800.1	650.1	599.0	599.0
32.5°	3535.2	3165.6	2581.8	2122.0	1631.7	1146.9	747.9	524.0	391.3	345.7	346.8
35°	4066.8	3650.4	2692.7	2032.8	1424.1	869.7	462.0	291.3	229.4	206.5	204.4
37.5°	4574.4	4096.1	2929.7	1928.5	1162.1	551.1	259.8	179.4	156.5	155.5	156.5
40°	4887.5	4448.3	3167.7	1789.3	849.0	303.3	168.5	146.8	143.5	140.2	140.2
42.5°	5176.7	4690.7	3348.2	1576.3	506.6	183.7	147.8	133.7	131.5	126.1	126.1
45°	5411.5	4864.7	3362.3	1292.5	268.5	163.1	135.9	121.8	117.4	114.1	113.1
47.5°	5634.3	5034.2	3311.2	990.3	191.3	151.1	127.2	112.0	106.5	108.7	107.6
50°	5784.3	5203.8	3172.1	778.3	182.6	140.2	117.4	102.2	100.0	104.4	103.3
52.5°	5946.3	5343.0	2901.4	605.5	169.6	129.4	107.6	95.7	91.3	94.6	95.7
55°	6074.6	5340.8	2702.5	472.9	160.9	120.7	101.1	90.2	82.6	82.6	81.5
57.5°	6137.6	5289.7	2542.7	371.8	151.1	112.0	94.6	79.4	70.7	68.5	67.4
60°	6134.4	5239.7	2356.8	305.5	141.3	102.2	84.8	67.4	58.7	54.4	54.4
62.5°	6099.6	5122.3	2062.2	263.1	131.5	94.6	70.7	55.4	48.9	44.6	45.7
65°	6010.4	4896.2	1700.2	223.9	121.8	91.3	59.8	48.9	42.4	38.0	38.0
67.5°	5701.7	4516.8	1326.2	188.1	112.0	76.1	52.2	41.3	35.9	31.5	31.5
70°	5264.7	3938.5	872.9	158.7	100.0	66.3	46.7	35.9	30.4	26.1	25.0
72.5°	4487.4	3147.1	443.5	135.9	85.9	58.7	41.3	31.5	26.1	21.7	20.7
75°	3441.7	2119.8	276.1	108.7	67.4	52.2	37.0	28.3	21.7	16.3	15.2
77.5°	2052.4	853.4	195.7	76.1	45.7	41.3	30.4	22.8	17.4	12.0	12.0
80°	647.9	377.2	132.6	52.2	29.4	28.3	22.8	16.3	12.0	8.7	8.7
82.5°	366.3	239.2	89.1	34.8	20.7	18.5	13.0	9.8	7.6	6.5	6.5
85°	60.9	47.8	27.2	13.0	9.8	8.7	5.4	3.3	2.2	1.1	2.2
87.5°	3.3	3.3	4.3	4.3	4.3	3.3	2.2	0.0	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)