

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: P509606

Luminaire Tested: **VERD-G-CA2-130-740-U-T3-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509606
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-CA2-130-740-U-T3-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1200mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17329 lumens
Efficiency: N/A
Efficacy: 129.4 lumens/watt
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

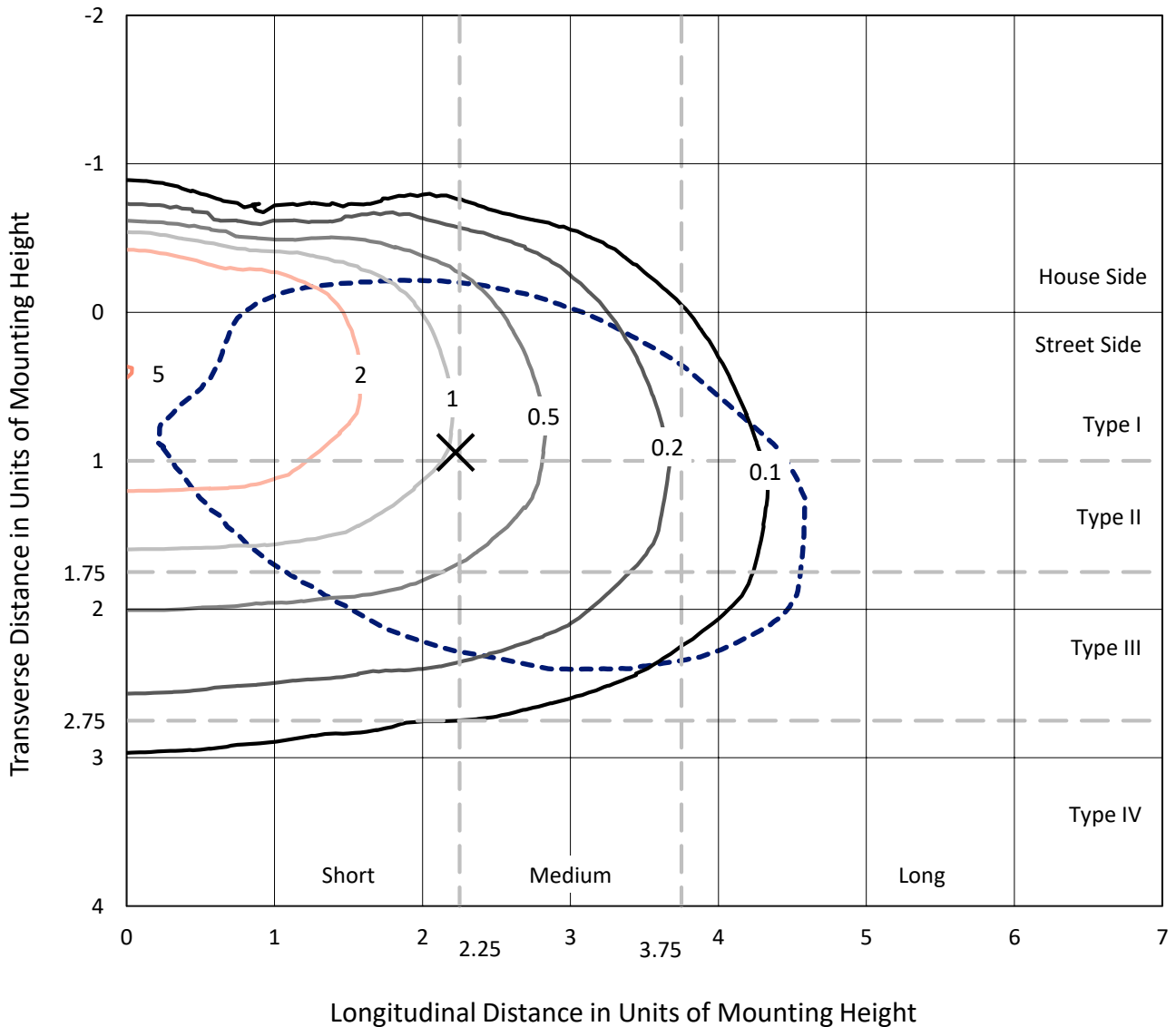
Input Watts (W): 133.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

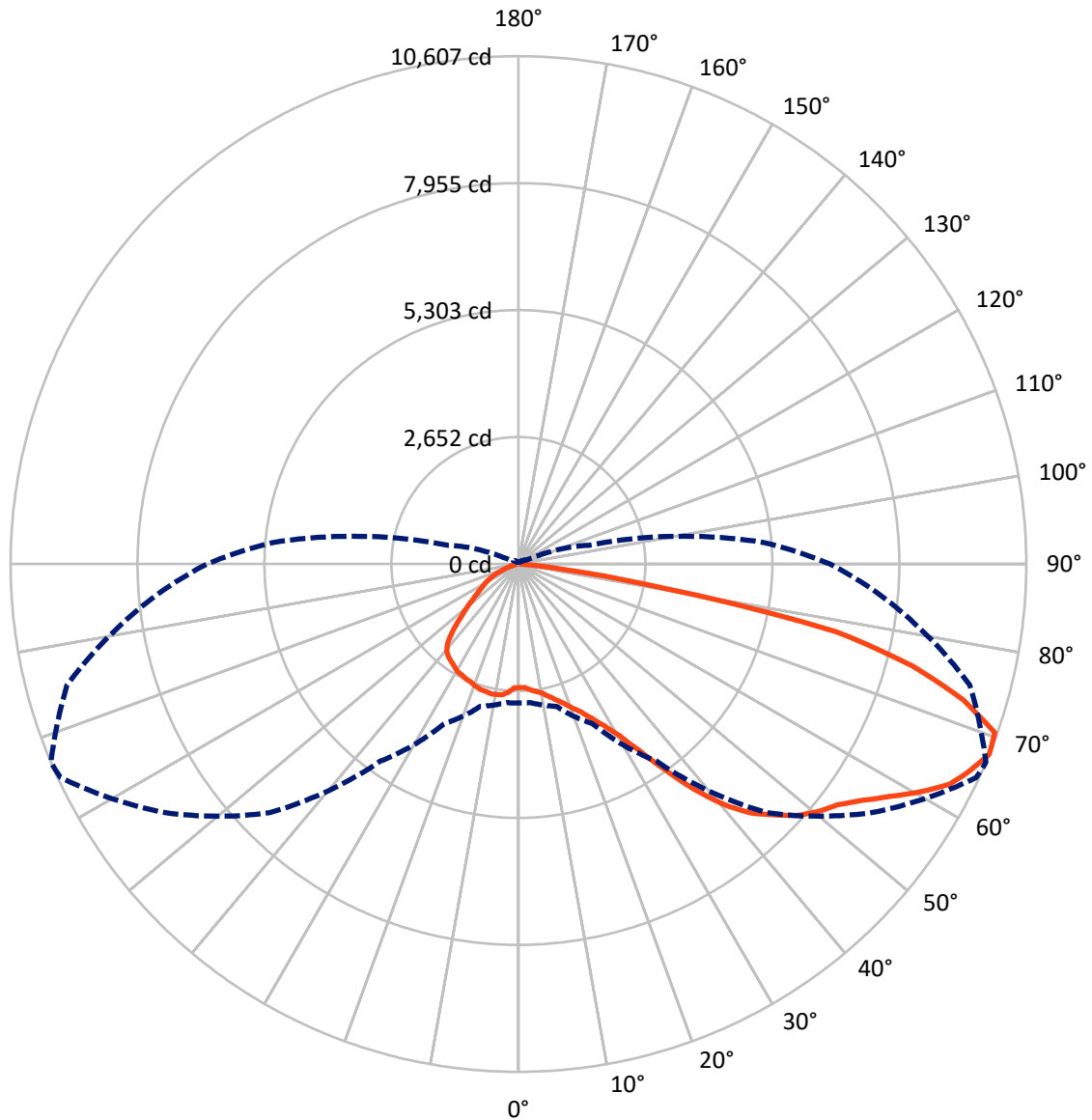
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type 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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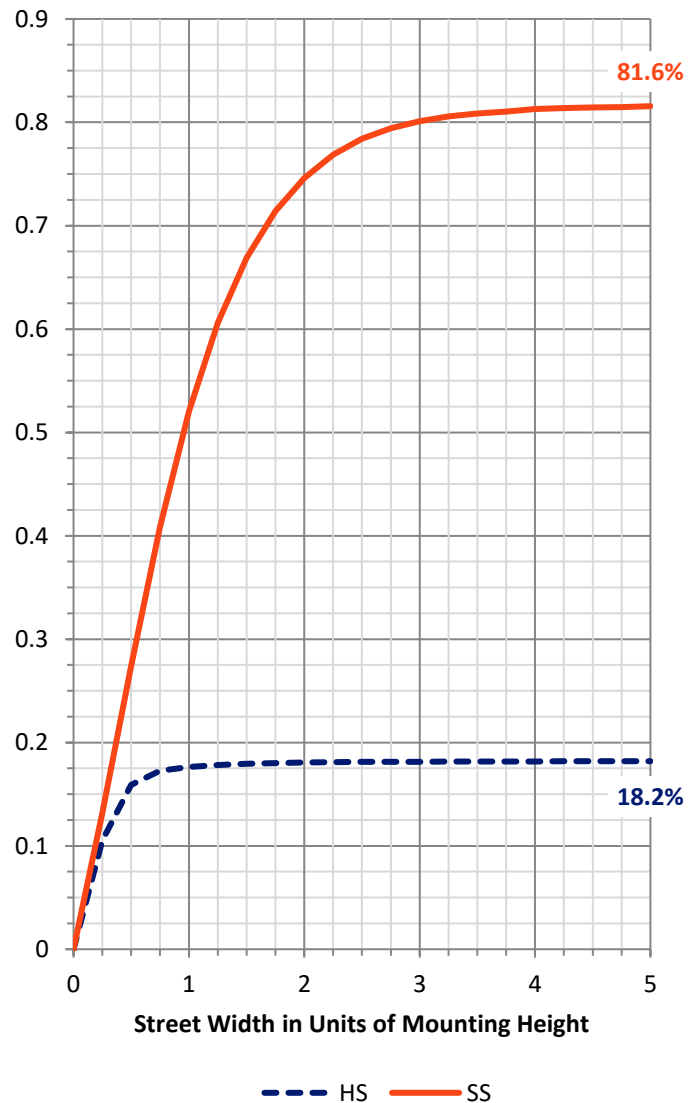
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3189.6	0.0	3189.6
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	14139.4	0.0	14139.4
	% Fixture	81.6	0.0	81.6
Total	Lumens	17329.0	0.0	17329.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.5	1.5
10°-20°	811.1	4.7
20°-30°	1382.9	8.0
30°-40°	2109.2	12.2
40°-50°	2973.4	17.2
50°-60°	3594.0	20.7
60°-70°	3785.2	21.8
70°-80°	2251.7	13.0
80°-90°	161.9	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°	17329.0	100.0
0°-180°	17329.0	100.0



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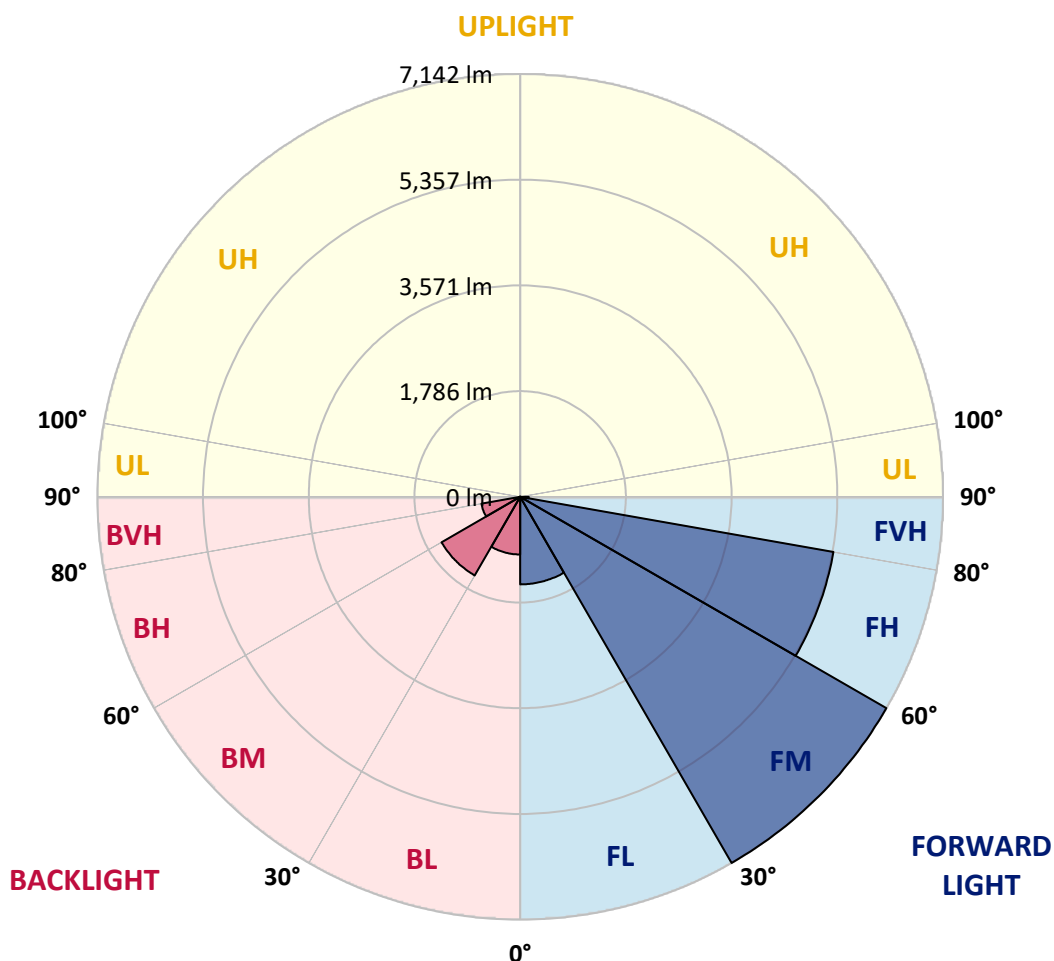
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1479.4	8.5			
FM	(30°-60°)	7142.2	41.2			
FH	(60°-80°)	5372.9	31.0			G3/7500
FVH	(80°-90°)	144.9	0.8			G2/225
BL	(0°-30°)	974.1	5.6	B2/1000		
BM	(30°-60°)	1534.5	8.9	B2/2500		
BH	(60°-80°)	664.0	3.8	B2/1000		G2/1000
BVH	(80°-90°)	17.0	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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2579.7	2579.7	2579.7	2579.7	2579.7	2579.7	2579.7	2579.7	2579.7	2579.7	2579.7
2.5°	2634.3	2644.2	2624.4	2619.4	2593.4	2597.1	2592.1	2579.7	2584.7	2574.8	2581.0
5°	2735.9	2709.9	2702.5	2687.6	2664.0	2650.4	2630.6	2624.4	2638.0	2626.8	2629.3
7.5°	2843.8	2848.7	2815.3	2786.8	2744.6	2734.7	2700.0	2678.9	2692.6	2677.7	2686.4
10°	2978.9	2986.4	2950.4	2912.0	2876.0	2824.0	2780.6	2747.1	2743.4	2735.9	2748.3
12.5°	3156.2	3154.9	3115.3	3068.2	2997.5	2961.6	2878.5	2831.4	2837.6	2810.3	2807.8
15°	3362.0	3344.6	3298.7	3250.4	3162.4	3091.7	2991.3	2933.0	2943.0	2912.0	2904.5
17.5°	3562.8	3545.4	3509.5	3456.2	3375.6	3266.5	3143.8	3059.5	3057.0	3042.1	2997.5
20°	3768.6	3776.0	3727.7	3679.3	3598.7	3452.5	3313.6	3204.5	3207.0	3181.0	3094.2
22.5°	4009.1	3995.4	3937.2	3914.9	3823.1	3663.2	3508.2	3383.0	3358.2	3353.3	3203.3
25°	4238.4	4229.7	4176.4	4150.4	4073.5	3927.3	3726.4	3576.4	3572.7	3556.6	3344.6
27.5°	4420.6	4430.6	4425.6	4407.0	4322.7	4178.9	4002.9	3823.1	3825.6	3802.0	3528.1
30°	4679.7	4650.0	4638.8	4653.7	4646.3	4491.3	4304.1	4173.9	4165.3	4104.5	3759.9
32.5°	4831.0	4845.8	4860.7	4912.8	4914.0	4798.7	4677.3	4615.3	4650.0	4659.9	4336.3
35°	4969.8	4969.8	5055.3	5186.8	5232.6	5193.0	5140.9	5219.0	5287.2	5424.8	5045.4
37.5°	5093.8	5129.7	5210.3	5375.2	5525.2	5563.6	5677.7	5892.1	5975.2	6100.4	5643.0
40°	5197.9	5223.9	5326.8	5528.9	5786.8	5962.8	6176.0	6516.9	6603.7	6580.1	5975.2
42.5°	5082.6	5124.8	5289.6	5704.9	6029.7	6360.7	6639.6	7007.8	7113.2	6895.0	6324.8
45°	5020.6	5036.8	5209.1	5680.1	6208.2	6763.6	7079.7	7473.9	7473.9	7229.7	6571.5
47.5°	4896.7	4925.2	5129.7	5647.9	6397.9	7099.6	7419.4	7821.0	7847.1	7545.8	6816.9
50°	4771.5	4807.4	5039.2	5590.9	6504.5	7436.7	7708.2	8111.1	8121.0	7762.8	7033.9
52.5°	4647.5	4666.1	4925.2	5553.7	6622.3	7610.3	7957.4	8346.7	8351.6	8087.6	7273.1
55°	4425.6	4471.5	4739.2	5417.3	6616.1	7689.6	8087.6	8661.5	8709.9	8440.9	7508.6
57.5°	4217.3	4231.0	4523.5	5220.2	6515.7	7781.4	8367.7	9112.8	9159.9	8761.9	7683.4
60°	3939.7	3954.5	4269.4	4985.9	6366.9	7873.1	8723.5	9639.6	9660.7	9099.1	7814.8
62.5°	3649.6	3700.4	3959.5	4626.4	6058.2	7889.2	9024.8	10125.6	10116.9	9391.7	7901.6
65°	3308.7	3327.3	3576.4	4206.2	5585.9	7766.5	9148.7	10361.1	10382.2	9597.5	7844.6
67.5°	2899.6	2907.0	3078.1	3683.0	5026.8	7343.8	9045.8	10553.3	10606.6	9758.6	7606.6
70°	2290.9	2302.1	2459.5	3034.7	4233.5	6696.7	8872.3	10575.6	10553.3	9613.6	7244.6
72.5°	1596.7	1580.6	1734.3	2128.5	3205.8	5507.8	8034.3	9675.6	9715.2	8894.6	6487.2
75°	764.9	769.8	1074.8	1309.1	1800.0	3934.7	6686.7	8331.8	8497.9	7751.6	5284.7
77.5°	130.2	132.6	283.9	515.7	725.2	1651.2	4434.3	6635.9	6777.2	6084.3	3577.7
80°	104.1	104.1	138.8	277.7	384.3	684.3	1679.7	2941.7	3095.4	2755.8	1319.0
82.5°	70.7	74.4	99.2	162.4	136.4	267.8	609.9	931.0	955.8	866.5	541.7
85°	39.7	40.9	50.8	65.7	57.0	99.2	125.2	127.7	135.1	105.4	80.6
87.5°	5.0	11.2	11.2	11.2	5.0	5.0	3.7	3.7	5.0	3.7	3.7
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°	2579.7	2579.7	2579.7	2579.7	2579.7	2579.7	2579.7	2579.7	2579.7	2579.7	2579.7
2.5°	2577.3	2562.4	2594.6	2588.4	2610.7	2607.0	2625.6	2635.5	2656.6	2683.9	2681.4
5°	2631.8	2630.6	2669.0	2687.6	2707.4	2726.0	2727.3	2745.9	2764.5	2805.4	2804.1
7.5°	2683.9	2695.0	2749.6	2750.8	2758.3	2771.9	2753.3	2759.5	2764.5	2779.3	2784.3
10°	2744.6	2765.7	2766.9	2762.0	2738.4	2737.2	2695.0	2700.0	2677.7	2695.0	2686.4
12.5°	2822.7	2805.4	2795.4	2762.0	2726.0	2677.7	2638.0	2583.5	2571.1	2571.1	2574.8
15°	2899.6	2873.5	2788.0	2734.7	2669.0	2592.1	2527.7	2465.7	2434.7	2421.1	2418.6
17.5°	2966.5	2912.0	2790.5	2721.1	2597.1	2484.3	2387.6	2288.4	2240.1	2209.1	2204.1
20°	3021.1	2962.8	2797.9	2676.4	2519.0	2352.9	2206.6	2081.4	1985.9	1915.3	1922.7
22.5°	3112.8	3019.8	2793.0	2623.1	2428.5	2212.8	1992.1	1819.8	1659.9	1620.2	1631.4
25°	3223.1	3101.6	2821.5	2590.9	2323.1	2036.8	1746.7	1547.1	1376.0	1321.5	1325.2
27.5°	3350.8	3200.8	2853.7	2537.6	2214.0	1819.8	1470.2	1223.5	1087.2	979.3	970.7
30°	3554.1	3335.9	2888.4	2502.9	2061.6	1578.1	1169.0	912.4	741.3	683.1	683.1
32.5°	4031.4	3609.9	2944.2	2419.8	1860.7	1307.8	852.9	597.5	446.3	394.2	395.5
35°	4637.6	4162.8	3070.6	2318.2	1624.0	991.7	526.9	332.2	261.6	235.5	233.1
37.5°	5216.5	4671.1	3340.9	2199.2	1325.2	628.5	296.3	204.5	178.5	177.3	178.5
40°	5573.5	5072.7	3612.4	2040.5	968.2	345.9	192.1	167.4	163.6	159.9	159.9
42.5°	5903.3	5349.2	3818.2	1797.5	577.7	209.5	168.6	152.5	150.0	143.8	143.8
45°	6171.0	5547.5	3834.3	1474.0	306.2	185.9	155.0	138.8	133.9	130.2	128.9
47.5°	6425.2	5740.9	3776.0	1129.3	218.2	172.3	145.0	127.7	121.5	124.0	122.7
50°	6596.3	5934.3	3617.3	887.6	208.3	159.9	133.9	116.5	114.0	119.0	117.8
52.5°	6781.0	6092.9	3308.7	690.5	193.4	147.5	122.7	109.1	104.1	107.9	109.1
55°	6927.2	6090.5	3081.8	539.3	183.5	137.6	115.3	102.9	94.2	94.2	93.0
57.5°	6999.1	6032.2	2899.6	424.0	172.3	127.7	107.9	90.5	80.6	78.1	76.9
60°	6995.4	5975.2	2687.6	348.3	161.2	116.5	96.7	76.9	66.9	62.0	62.0
62.5°	6955.8	5841.3	2351.6	300.0	150.0	107.9	80.6	63.2	55.8	50.8	52.1
65°	6854.1	5583.4	1938.8	255.4	138.8	104.1	68.2	55.8	48.3	43.4	43.4
67.5°	6502.0	5150.8	1512.4	214.5	127.7	86.8	59.5	47.1	40.9	36.0	36.0
70°	6003.7	4491.3	995.5	181.0	114.0	75.6	53.3	40.9	34.7	29.8	28.5
72.5°	5117.3	3588.8	505.8	155.0	97.9	66.9	47.1	36.0	29.8	24.8	23.6
75°	3924.8	2417.3	314.9	124.0	76.9	59.5	42.1	32.2	24.8	18.6	17.4
77.5°	2340.5	973.1	223.1	86.8	52.1	47.1	34.7	26.0	19.8	13.6	13.6
80°	738.8	430.2	151.2	59.5	33.5	32.2	26.0	18.6	13.6	9.9	9.9
82.5°	417.8	272.7	101.7	39.7	23.6	21.1	14.9	11.2	8.7	7.4	7.4
85°	69.4	54.5	31.0	14.9	11.2	9.9	6.2	3.7	2.5	1.2	2.5
87.5°	3.7	3.7	5.0	5.0	5.0	3.7	2.5	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)