

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: P509822

Luminaire Tested: **VERD-M-CA3-150-722-U-T3-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509822
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-5)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-M-CA3-150-722-U-T3-HSS
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2200K, 940mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16844 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

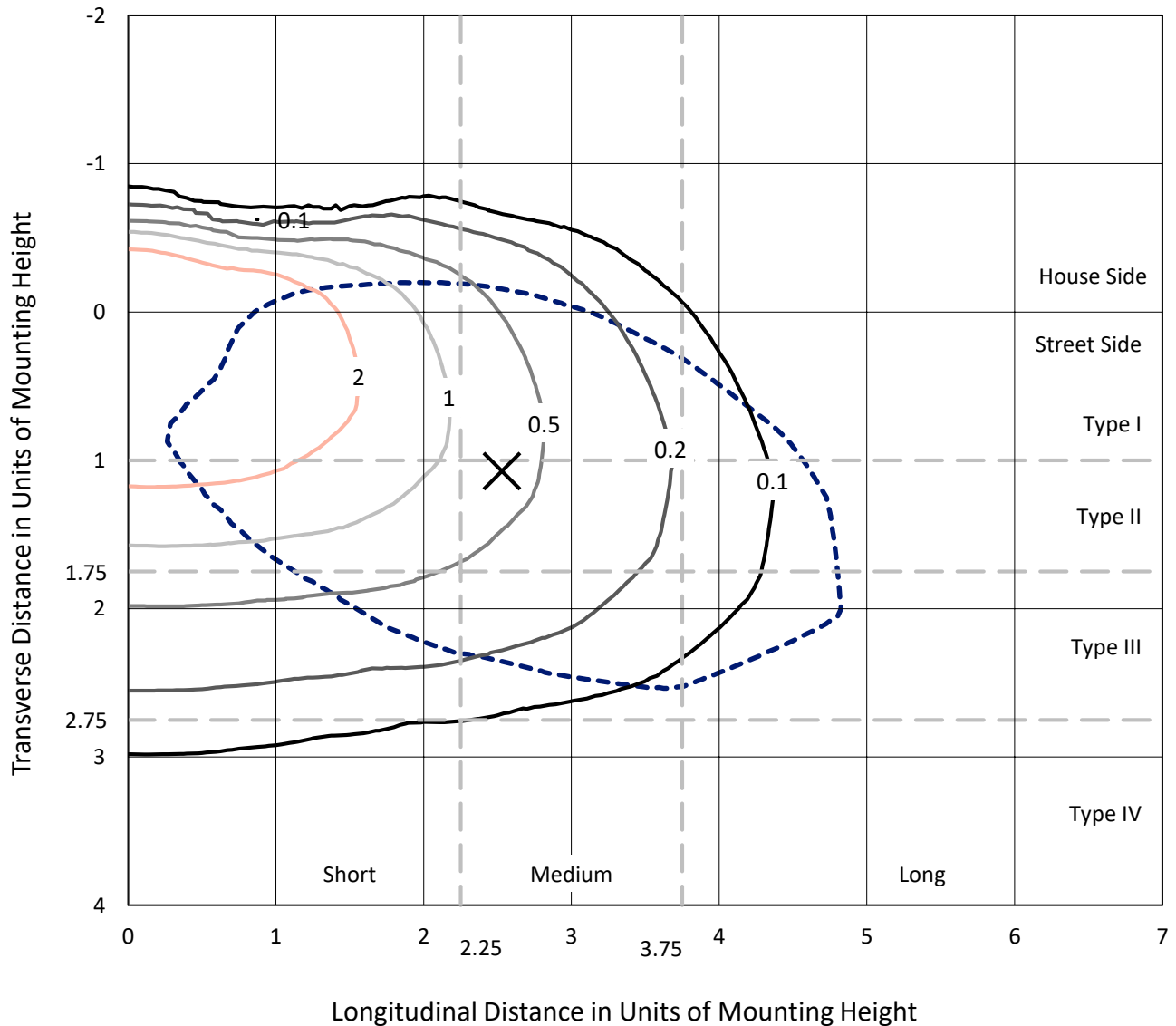
Input Watts (W): 153
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

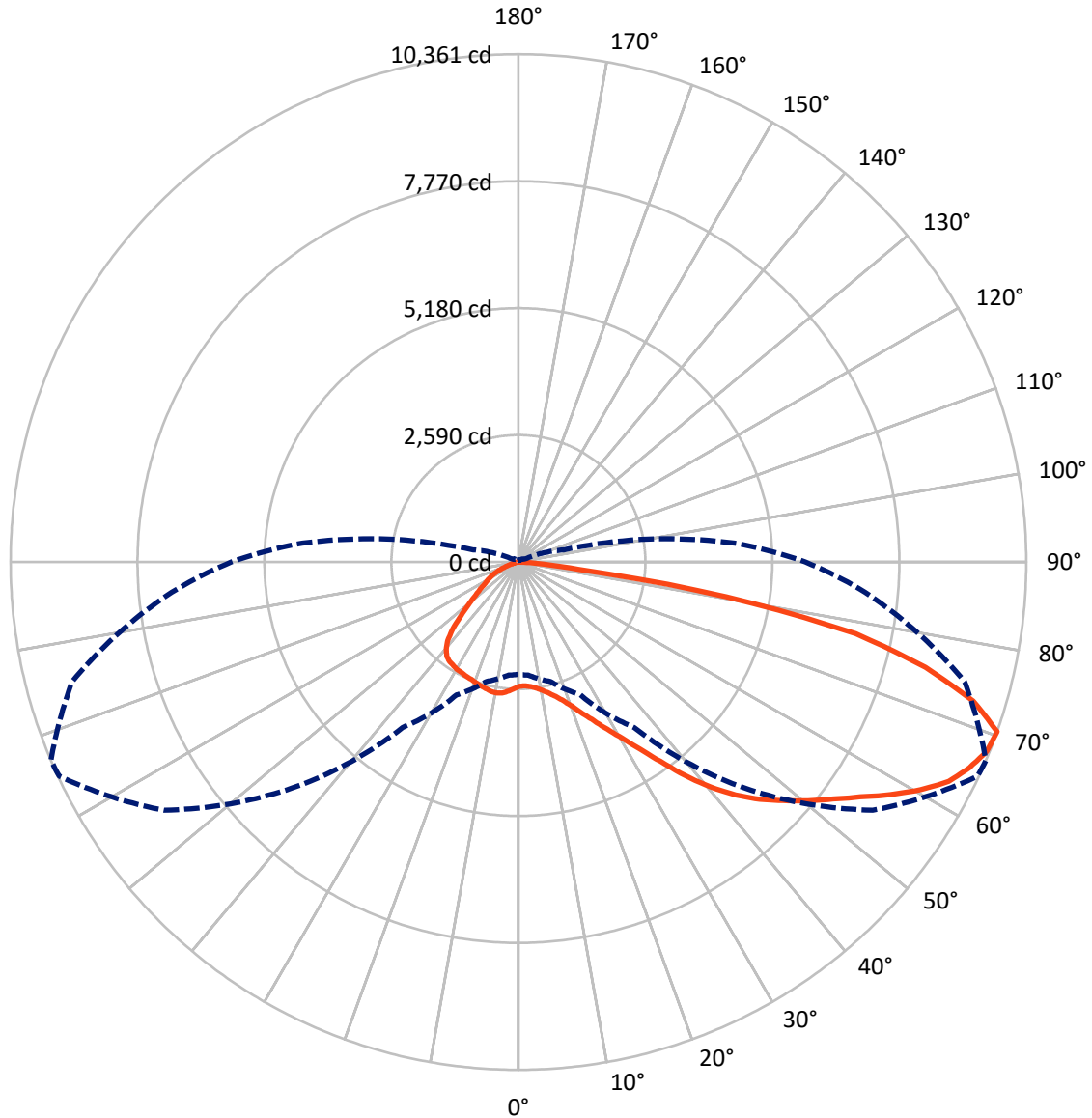
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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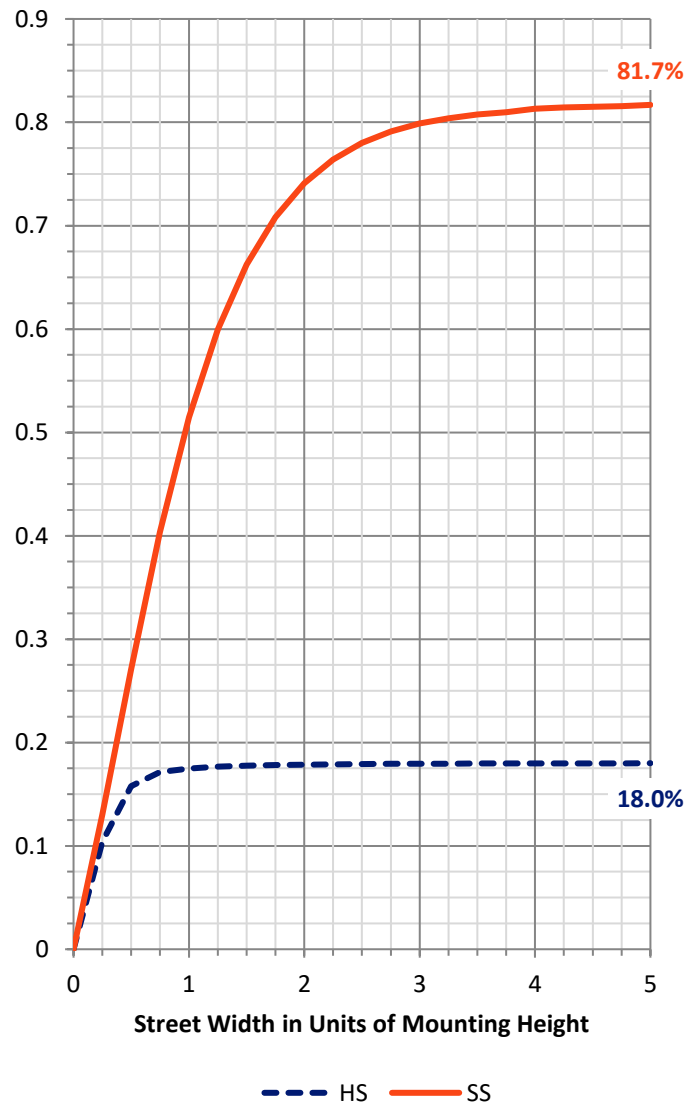
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3069.1	0.0	3069.1
	% Fixture	18.2	0.0	18.2
Street Side	Lumens	13774.9	0.0	13774.9
	% Fixture	81.8	0.0	81.8
Total	Lumens	16844.0	0.0	16844.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.4	1.5
10°-20°	787.5	4.7
20°-30°	1366.4	8.1
30°-40°	2029.4	12.0
40°-50°	2784.3	16.5
50°-60°	3419.2	20.3
60°-70°	3665.8	21.8
70°-80°	2327.1	13.8
80°-90°	211.8	1.3
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°	16844.0	100.0
0°-180°	16844.0	100.0



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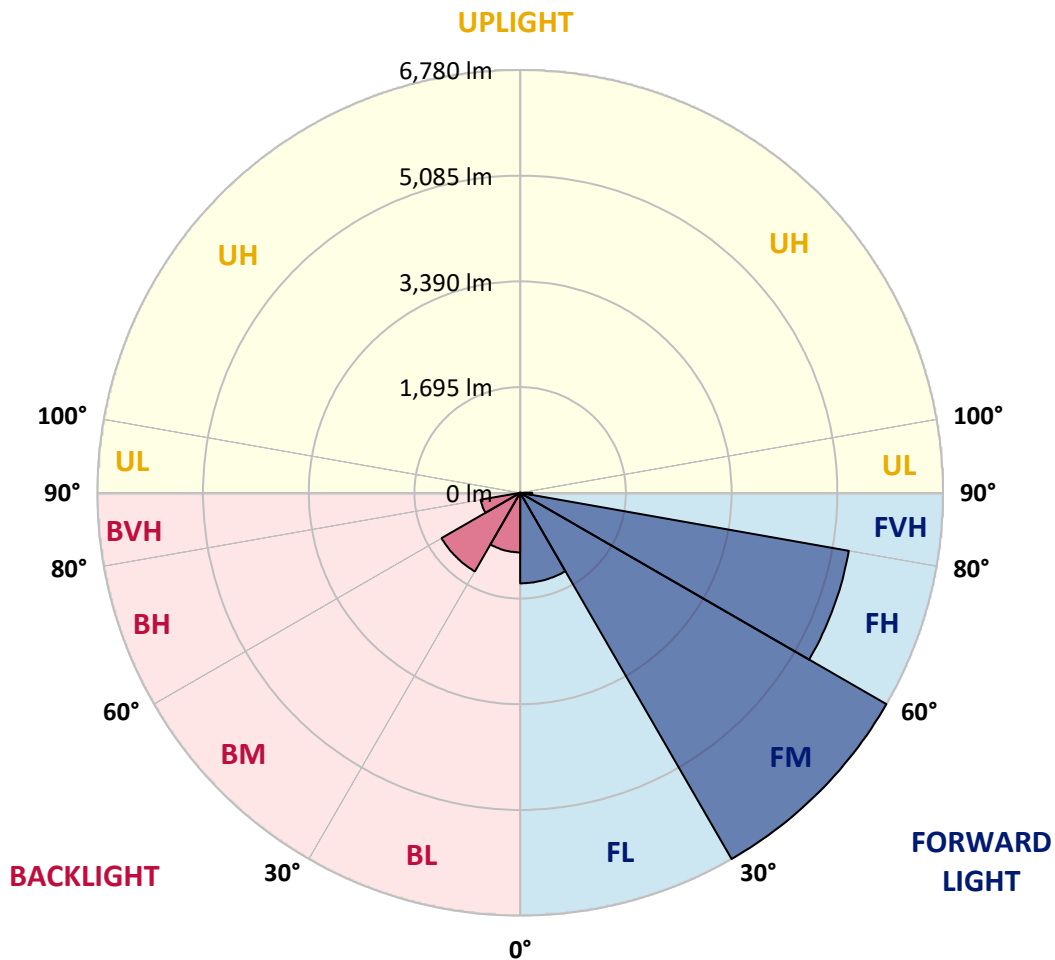
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1451.3	8.6			
FM (30°-60°)	6779.5	40.2			
FH (60°-80°)	5350.9	31.8			G3/7500
FVH (80°-90°)	193.2	1.1			G2/225
BL (0°-30°)	955.2	5.7	B2/1000		
BM (30°-60°)	1453.4	8.6	B2/2500		
BH (60°-80°)	641.9	3.8	B2/1000		G2/1000
BVH (80°-90°)	18.6	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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2533.7	2533.7	2533.7	2533.7	2533.7	2533.7	2533.7	2533.7	2533.7	2533.7	2533.7
2.5°	2510.9	2534.5	2520.7	2519.0	2535.3	2519.9	2530.5	2528.0	2526.4	2528.8	2545.9
5°	2576.9	2604.6	2585.9	2580.2	2589.1	2561.4	2559.0	2553.3	2551.6	2552.5	2576.9
7.5°	2669.0	2701.6	2694.3	2679.6	2674.7	2629.1	2620.9	2600.5	2594.0	2595.7	2620.1
10°	2814.1	2846.7	2832.0	2799.4	2779.0	2726.9	2697.5	2671.4	2658.4	2660.0	2686.1
12.5°	2999.9	3030.8	3006.4	2946.9	2935.5	2851.6	2805.9	2750.5	2741.5	2728.5	2756.2
15°	3175.1	3202.0	3190.6	3135.2	3104.2	3004.8	2920.8	2852.4	2844.2	2832.0	2831.2
17.5°	3369.1	3395.9	3374.8	3334.0	3293.3	3175.1	3084.6	2996.6	2975.4	2964.8	2926.5
20°	3576.1	3618.4	3614.4	3580.9	3532.0	3393.5	3265.6	3166.1	3143.3	3123.7	3043.1
22.5°	3789.6	3845.0	3832.8	3814.8	3794.5	3638.8	3489.7	3374.8	3357.6	3316.1	3188.9
25°	4025.9	4064.2	4055.3	4064.2	4050.4	3912.6	3749.6	3609.5	3586.6	3547.5	3352.8
27.5°	4254.9	4294.8	4310.3	4291.6	4300.6	4201.9	4008.8	3883.3	3861.3	3789.6	3550.0
30°	4461.9	4511.6	4533.6	4541.8	4571.9	4470.1	4327.4	4175.0	4167.7	4094.4	3809.9
32.5°	4627.4	4682.8	4736.6	4771.6	4819.7	4774.9	4633.1	4541.0	4541.8	4475.8	4200.3
35°	4747.2	4810.7	4889.0	4981.9	5082.9	5064.2	4980.2	4981.9	4994.9	5016.9	4698.3
37.5°	4880.0	4931.3	5023.4	5153.0	5307.0	5346.1	5334.7	5464.3	5527.9	5567.0	5135.9
40°	4959.0	5011.2	5126.1	5300.5	5524.6	5618.3	5723.5	5950.9	6034.0	5993.2	5510.0
42.5°	4871.8	4918.3	5118.0	5419.5	5703.1	5915.8	6104.1	6436.6	6496.9	6364.0	5825.3
45°	4758.6	4818.9	5029.1	5452.1	5861.2	6207.6	6500.1	6859.5	6904.4	6716.1	6104.1
47.5°	4665.7	4718.6	4963.9	5417.1	6007.1	6506.7	6848.1	7258.9	7270.3	7038.0	6392.6
50°	4546.7	4611.1	4867.0	5373.9	6095.1	6771.5	7166.8	7631.3	7656.6	7371.3	6637.0
52.5°	4422.0	4484.7	4749.6	5303.0	6158.7	6991.6	7497.6	8027.4	8029.8	7724.2	6897.8
55°	4237.8	4304.6	4598.0	5200.3	6178.2	7137.4	7830.2	8431.6	8456.9	8082.0	7134.2
57.5°	4043.0	4100.1	4415.5	5040.5	6105.7	7275.2	8171.6	8880.6	8949.9	8485.4	7337.1
60°	3784.7	3841.7	4175.0	4831.1	5951.7	7430.0	8562.8	9421.8	9429.1	8812.2	7484.6
62.5°	3506.8	3556.5	3862.9	4502.7	5712.9	7489.5	8898.6	9854.5	9853.7	9103.1	7558.0
65°	3176.7	3197.1	3509.2	4099.3	5342.1	7402.3	9046.9	10139.8	10112.0	9312.6	7533.5
67.5°	2785.5	2807.5	3043.9	3598.1	4804.2	7061.6	8980.9	10277.5	10305.2	9499.2	7427.6
70°	2290.0	2316.1	2522.3	2990.1	4118.8	6518.1	8826.0	10337.0	10360.6	9424.2	7100.8
72.5°	1690.2	1725.3	1851.6	2225.7	3126.2	5476.5	8108.9	9685.8	9698.9	8798.3	6420.3
75°	1049.7	1114.1	1233.0	1479.2	2028.4	3840.9	6931.3	8659.0	8577.5	7848.1	5312.7
77.5°	419.7	430.3	489.8	692.7	989.4	1999.9	5024.2	6883.2	7038.8	6279.3	3800.2
80°	244.5	242.9	256.7	322.7	424.6	683.8	1954.3	3861.3	4303.8	3448.9	1709.8
82.5°	197.2	189.9	189.9	207.0	203.7	287.7	640.6	1127.9	1237.1	1097.8	486.5
85°	103.5	101.1	82.3	101.9	101.9	143.4	246.1	319.5	337.4	294.2	182.6
87.5°	26.1	26.1	26.1	31.8	25.3	30.2	41.6	50.5	52.2	42.4	26.9
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°	2533.7	2533.7	2533.7	2533.7	2533.7	2533.7	2533.7	2533.7	2533.7	2533.7	2533.7
2.5°	2552.5	2559.8	2588.3	2584.2	2589.1	2589.1	2597.3	2606.2	2633.1	2617.7	2611.1
5°	2581.8	2596.5	2632.3	2645.4	2664.9	2667.4	2683.7	2689.4	2718.7	2702.4	2702.4
7.5°	2638.0	2655.1	2688.6	2693.4	2702.4	2686.9	2691.0	2673.1	2692.6	2673.1	2673.9
10°	2701.6	2713.0	2735.8	2703.2	2689.4	2652.7	2644.6	2600.5	2616.0	2590.8	2584.2
12.5°	2762.7	2758.6	2741.5	2683.7	2645.4	2585.1	2559.8	2500.3	2497.0	2463.6	2457.1
15°	2820.6	2792.1	2736.6	2647.0	2581.8	2497.9	2437.6	2372.4	2349.5	2311.2	2308.0
17.5°	2891.5	2842.6	2744.0	2612.0	2505.2	2382.9	2297.4	2224.0	2176.8	2141.7	2140.9
20°	2977.9	2902.9	2747.2	2572.0	2426.1	2269.7	2149.9	2057.0	1989.3	1945.3	1944.5
22.5°	3086.3	2984.4	2777.4	2526.4	2325.1	2132.8	1983.6	1823.1	1730.2	1640.5	1624.2
25°	3213.4	3066.7	2803.5	2502.7	2225.7	1990.1	1768.5	1533.8	1389.5	1317.8	1290.9
27.5°	3391.9	3203.6	2841.8	2457.9	2131.9	1814.1	1491.4	1235.5	1061.9	1000.8	1000.8
30°	3598.1	3376.4	2913.5	2431.0	2001.5	1567.2	1187.4	912.8	751.4	659.3	656.9
32.5°	3912.6	3582.6	2978.7	2373.2	1843.4	1298.2	859.0	588.4	458.8	401.8	398.5
35°	4364.9	3975.4	3083.8	2315.3	1614.4	966.5	545.2	337.4	261.6	229.0	227.4
37.5°	4800.1	4349.5	3310.4	2200.4	1289.3	607.1	302.4	194.8	159.7	155.7	154.0
40°	5106.6	4672.2	3470.1	2025.2	916.0	321.9	175.2	141.0	138.5	136.9	136.1
42.5°	5440.7	4911.8	3583.4	1801.9	543.6	186.6	142.6	127.1	123.1	121.4	121.4
45°	5712.1	5142.4	3604.6	1482.4	273.8	154.0	130.4	115.7	110.8	114.1	114.9
47.5°	5962.3	5360.0	3532.9	1114.9	185.0	143.4	122.2	107.6	104.3	112.5	112.5
50°	6175.8	5544.2	3368.2	832.1	173.6	135.3	114.1	99.4	98.6	105.9	106.8
52.5°	6388.5	5692.5	3109.1	628.3	164.6	126.3	105.9	92.1	89.6	94.5	95.4
55°	6557.2	5745.5	2916.7	467.8	158.1	118.2	98.6	84.8	79.1	78.2	79.9
57.5°	6650.1	5699.0	2728.5	343.9	150.8	110.8	91.3	75.0	66.0	66.0	66.0
60°	6651.7	5642.8	2527.2	272.2	142.6	102.7	83.1	64.4	55.4	53.8	53.8
62.5°	6633.8	5542.6	2234.6	236.3	133.7	96.2	72.5	54.6	48.1	45.6	45.6
65°	6554.7	5353.5	1880.1	202.1	123.1	91.3	61.9	48.9	43.2	39.9	39.9
67.5°	6308.6	4999.0	1447.4	176.0	113.3	80.7	56.2	44.0	38.3	35.0	34.2
70°	5857.1	4426.1	955.1	150.0	103.5	71.7	51.3	39.9	34.2	31.0	30.2
72.5°	5100.0	3602.1	480.0	127.1	88.8	66.0	46.5	35.0	29.3	26.1	26.1
75°	3996.6	2500.3	261.6	101.1	70.1	57.9	40.7	29.3	25.3	22.8	22.8
77.5°	2450.6	1239.6	178.5	78.2	53.0	47.3	32.6	24.4	22.0	21.2	21.2
80°	894.0	405.9	119.8	55.4	39.9	36.7	26.1	21.2	20.4	20.4	20.4
82.5°	322.7	206.2	80.7	37.5	25.3	27.7	21.2	17.9	17.1	17.9	18.7
85°	132.8	90.5	29.3	21.2	13.9	14.7	13.0	12.2	13.0	13.9	13.9
87.5°	20.4	17.9	10.6	10.6	8.1	7.3	5.7	6.5	8.1	9.8	9.8
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)