

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: P510096

Luminaire Tested: **VERD-M-CA4-200-750-U-T4-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510096
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-7)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-M-CA4-200-750-U-T4-HSS
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 5000K, 910mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26345 lumens
Efficiency: N/A
Efficacy: 130.6 lumens/watt
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

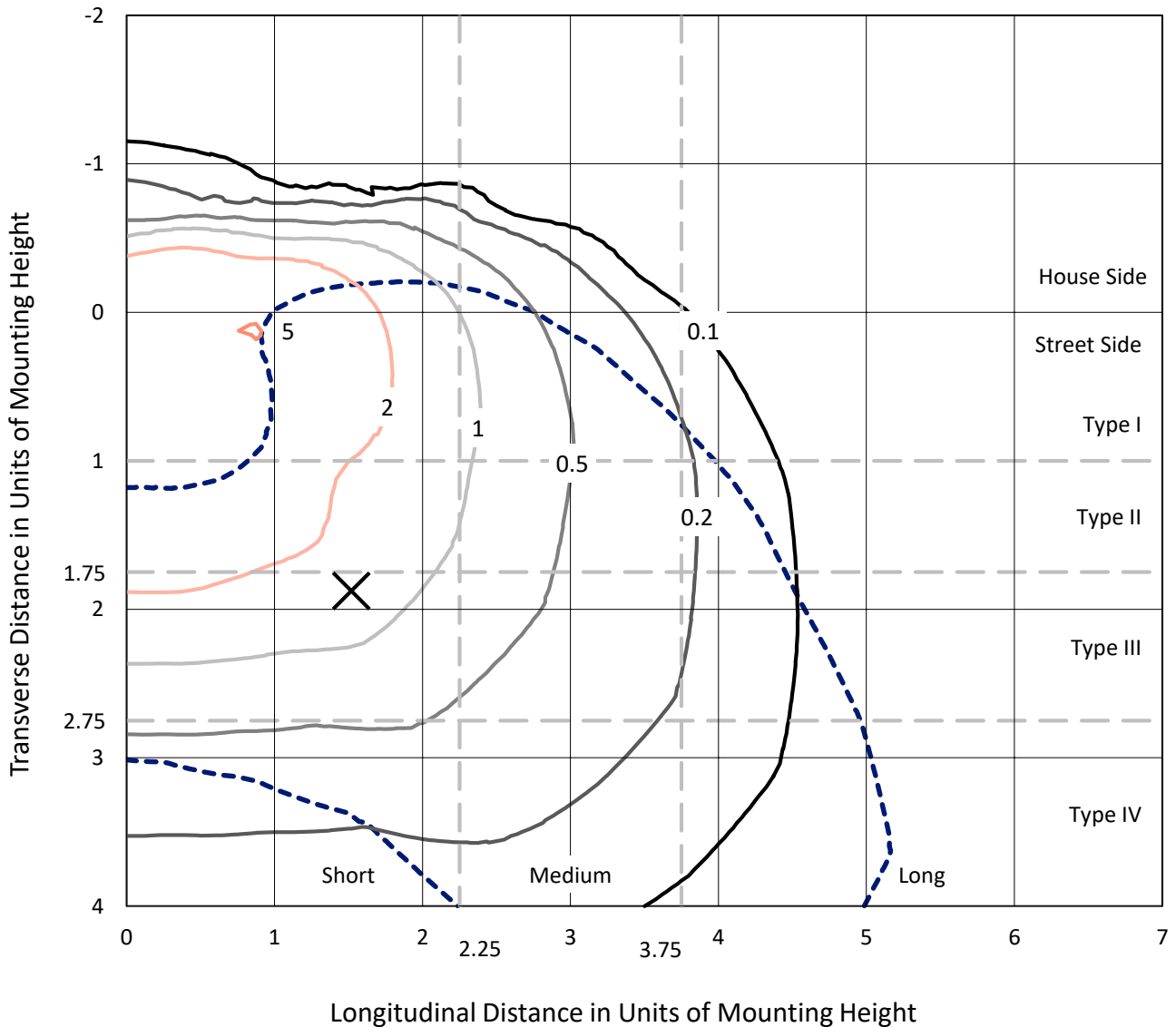
Input Watts (W): 201.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P510096
 CATALOG NUMBER: VERD-M-CA4-200-750-U-T4-HSS

Iso-Footcandle Lines of Horizontal Illumination

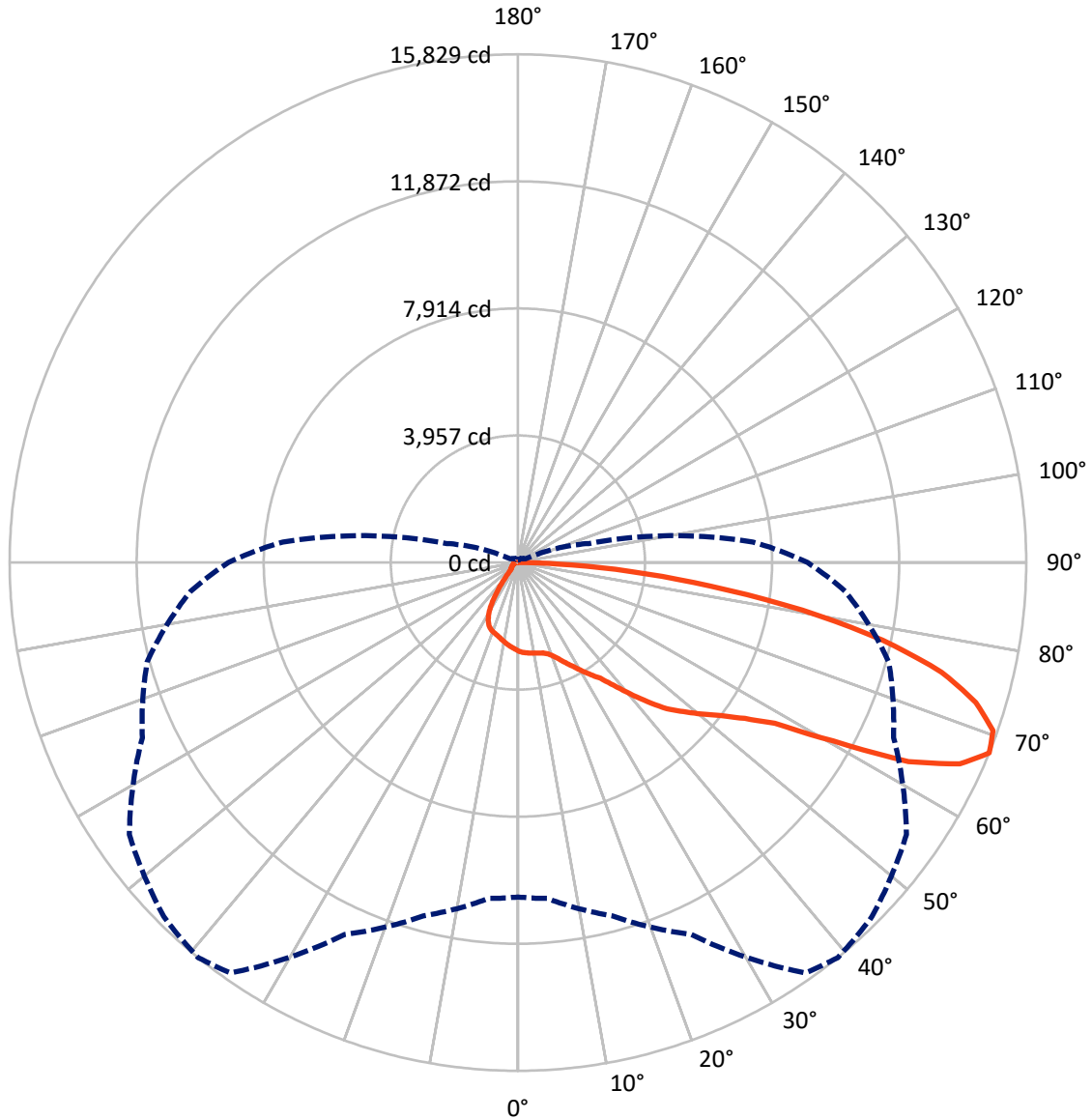
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type IV - Short - N/A

REPORT NUMBER: P510096
CATALOG NUMBER: VERD-M-CA4-200-750-U-T4-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P510096

CATALOG NUMBER: VERD-M-CA4-200-750-U-T4-HSS

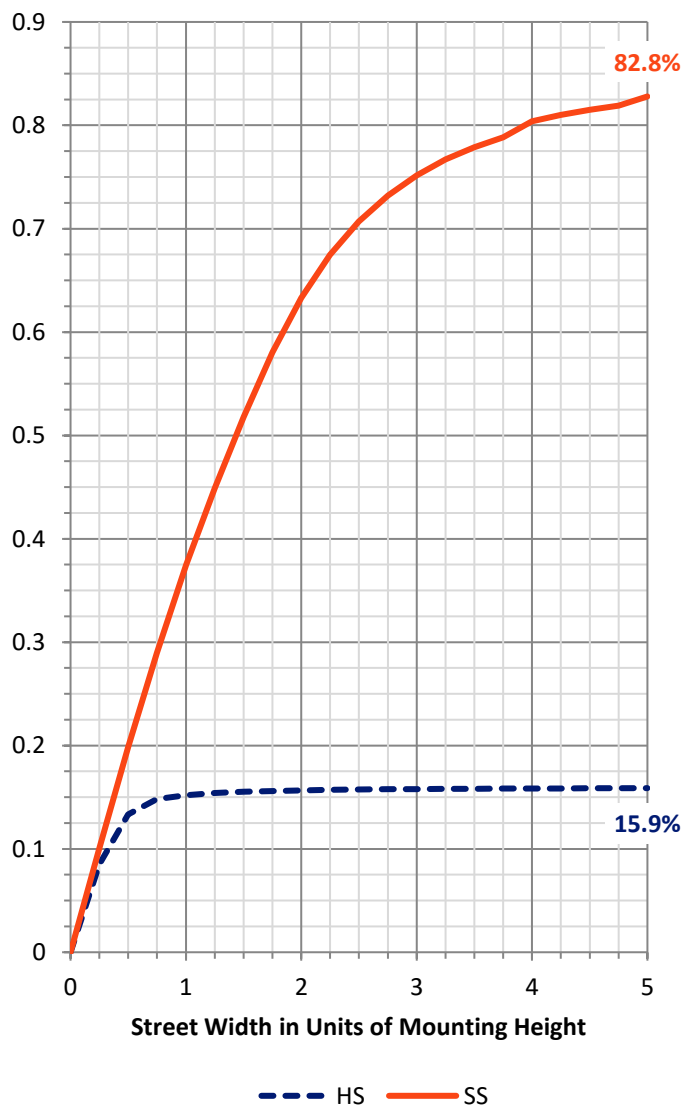
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4230.3	0.0	4230.3
	% Fixture	16.1	0.0	16.1
Street Side	Lumens	22114.6	0.0	22114.6
	% Fixture	83.9	0.0	83.9
Total	Lumens	26345.0	0.0	26345.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.4	1.0
10°-20°	775.1	2.9
20°-30°	1373.2	5.2
30°-40°	2199.5	8.3
40°-50°	3528.5	13.4
50°-60°	5157.6	19.6
60°-70°	6872.8	26.1
70°-80°	5157.4	19.6
80°-90°	1020.4	3.9
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°	26345.0	100.0
0°-180°	26345.0	100.0

Coefficient of Utilization



REPORT NUMBER: P510096

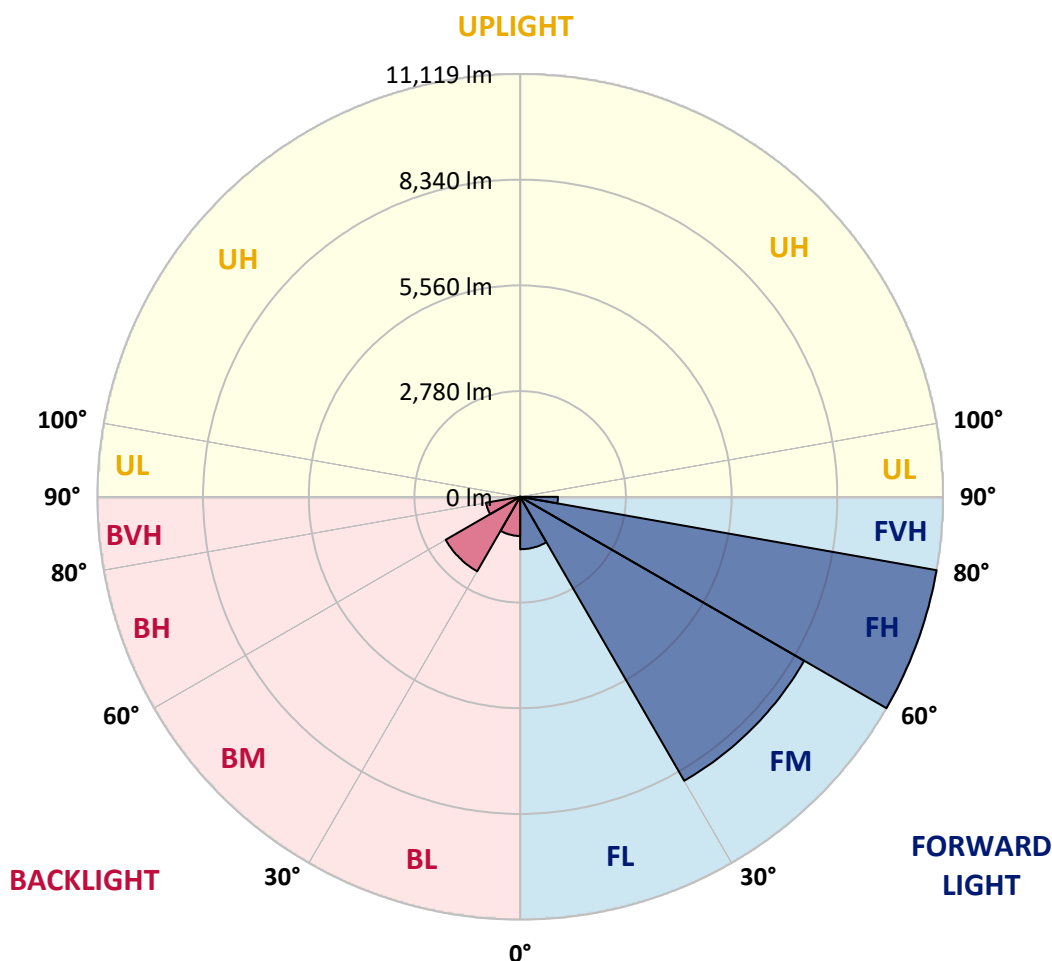
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1378.7	5.2			
FM (30°-60°)	8623.0	32.7			
FH (60°-80°)	11119.3	42.2			G4/12000
FVH (80°-90°)	993.7	3.8			G5
BL (0°-30°)	1030.1	3.9	B3/2500		
BM (30°-60°)	2262.6	8.6	B2/2500		
BH (60°-80°)	910.9	3.5	B2/1000		G2/1000
BVH (80°-90°)	26.7	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





REPORT NUMBER: P510096

CATALOG NUMBER: VERD-M-CA4-200-750-U-T4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2758.6	2758.6	2758.6	2758.6	2758.6	2758.6	2758.6	2758.6	2758.6	2758.6	2758.6
2.5°	2761.3	2798.3	2798.3	2787.7	2794.3	2799.6	2759.9	2770.5	2766.5	2765.2	2773.2
5°	2782.4	2823.5	2820.8	2807.6	2812.9	2823.5	2786.4	2802.3	2797.0	2783.8	2786.4
7.5°	2782.4	2816.8	2824.8	2810.2	2835.4	2848.6	2808.9	2823.5	2830.1	2820.8	2811.6
10°	2771.8	2802.3	2812.9	2810.2	2843.3	2864.5	2826.1	2867.1	2872.4	2872.4	2857.9
12.5°	2767.9	2802.3	2816.8	2828.8	2867.1	2889.6	2867.1	2906.9	2933.3	2932.0	2922.7
15°	2770.5	2808.9	2831.4	2851.3	2892.3	2920.1	2910.8	2971.7	3003.5	3012.8	3012.8
17.5°	2836.7	2883.0	2893.6	2914.8	2942.6	2985.0	2973.0	3051.1	3101.4	3117.3	3139.8
20°	3022.0	3057.8	3071.0	3060.4	3072.3	3098.8	3075.0	3150.4	3225.9	3268.2	3305.3
22.5°	3259.0	3285.4	3273.5	3262.9	3256.3	3262.9	3233.8	3284.1	3368.8	3429.7	3493.3
25°	3439.0	3497.2	3488.0	3458.8	3449.6	3457.5	3420.5	3482.7	3560.8	3624.3	3719.6
27.5°	3657.4	3693.1	3668.0	3657.4	3664.0	3662.7	3640.2	3699.8	3771.2	3850.7	3991.0
30°	3894.3	3924.8	3899.6	3889.0	3901.0	3908.9	3883.8	3988.3	4063.8	4149.8	4331.2
32.5°	4283.5	4356.3	4287.5	4149.8	4152.5	4164.4	4167.0	4307.3	4445.0	4512.5	4752.1
35°	4838.1	4896.4	4805.1	4638.3	4430.4	4422.5	4443.7	4652.8	4929.5	5236.6	5517.2
37.5°	5355.7	5440.4	5358.4	5163.8	4910.9	4850.1	4740.2	4989.0	5424.5	6085.1	6434.5
40°	5976.5	6040.1	5877.3	5707.8	5455.0	5369.0	5192.9	5351.7	5948.7	6970.6	7211.5
42.5°	6475.6	6514.0	6378.9	6201.6	5981.8	5917.0	5735.6	5750.2	6508.7	7746.3	7901.2
45°	6937.5	6978.6	6867.4	6716.5	6577.5	6499.4	6367.0	6438.5	7165.2	8564.4	8470.4
47.5°	7288.3	7329.4	7240.7	7133.5	6989.2	6936.2	6938.9	7195.7	7968.7	9218.3	8981.3
50°	7862.8	7846.9	7615.3	7498.8	7386.3	7414.1	7443.2	7808.5	8778.8	9779.5	9453.9
52.5°	8864.9	8786.8	8308.9	8004.4	7865.5	7913.1	7960.8	8446.6	9698.8	10291.8	9816.6
55°	9997.9	9918.5	9512.1	8860.9	8492.9	8569.7	8528.6	9078.0	10471.8	10784.2	10115.8
57.5°	10839.8	10970.9	10816.0	10461.2	9539.9	9439.3	9348.0	9716.0	11096.6	11276.6	10403.0
60°	11571.8	11754.5	12031.2	11934.5	11542.7	11280.6	10442.7	10461.2	11697.6	11618.2	10516.8
62.5°	12286.6	12393.9	12867.7	12972.3	13458.1	13646.1	12794.9	11424.9	12278.7	11855.1	10593.6
65°	11571.8	11709.5	12534.2	13295.3	14865.2	15116.7	14817.6	13169.5	12706.3	11995.4	10504.9
67.5°	10416.2	10499.6	11390.5	12775.1	15601.2	15828.9	15595.9	14771.2	12906.1	11953.1	10229.6
70°	8905.9	9036.9	9911.9	11767.7	15574.7	15696.5	15494.0	14964.5	12830.7	11709.5	9534.7
72.5°	7365.1	7439.2	8180.5	10032.4	14813.6	14915.5	14808.3	14668.0	12576.5	11030.4	8199.0
75°	5535.7	5551.6	6311.4	7922.4	13098.1	13630.2	13761.2	14157.0	11603.6	9455.2	6063.9
77.5°	3711.7	3869.2	4598.6	6054.6	10752.5	11603.6	12224.4	12513.0	9694.8	7056.7	3224.5
80°	1992.2	2031.9	2818.2	4296.7	8171.2	8985.3	9574.4	9579.7	6780.0	3495.9	720.1
82.5°	922.6	884.2	1419.0	2718.9	5660.2	6022.9	6417.3	5375.6	2714.9	597.0	184.0
85°	409.0	431.5	642.0	1325.0	3141.2	3505.2	3454.9	2380.0	476.5	161.5	112.5
87.5°	152.2	160.2	248.9	534.8	1121.2	1223.1	1100.0	458.0	62.2	56.9	34.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P510096

CATALOG NUMBER: VERD-M-CA4-200-750-U-T4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2758.6	2758.6	2758.6	2758.6	2758.6	2758.6	2758.6	2758.6	2758.6	2758.6	2758.6
2.5°	2763.9	2763.9	2761.3	2725.5	2717.6	2700.4	2685.8	2696.4	2684.5	2692.4	2684.5
5°	2775.8	2769.2	2753.3	2710.9	2691.1	2652.7	2623.6	2630.2	2614.3	2614.3	2613.0
7.5°	2803.6	2790.4	2762.6	2695.1	2658.0	2602.4	2557.4	2542.8	2527.0	2508.4	2505.8
10°	2848.6	2830.1	2793.0	2700.4	2628.9	2554.8	2476.7	2446.2	2406.5	2377.4	2372.1
12.5°	2910.8	2883.0	2832.7	2720.2	2626.2	2508.4	2403.8	2344.3	2296.6	2254.3	2245.0
15°	3000.8	2973.0	2913.5	2759.9	2627.6	2464.7	2327.1	2227.8	2145.7	2106.0	2107.3
17.5°	3131.9	3112.0	3020.7	2843.3	2652.7	2442.2	2263.5	2106.0	1978.9	1912.8	1903.5
20°	3300.0	3286.8	3175.6	2953.2	2710.9	2446.2	2194.7	1976.3	1789.7	1645.4	1613.6
22.5°	3495.9	3476.1	3339.7	3048.5	2756.0	2435.6	2119.3	1833.3	1552.7	1364.7	1327.7
25°	3714.3	3703.7	3490.6	3131.9	2761.3	2390.6	2010.7	1648.0	1295.9	1094.7	1062.9
27.5°	3993.6	3931.4	3627.0	3176.9	2749.3	2301.9	1855.8	1393.9	1029.8	890.9	856.4
30°	4299.4	4173.6	3759.3	3211.3	2691.1	2160.3	1634.8	1100.0	766.4	643.3	626.1
32.5°	4638.3	4450.3	3883.8	3208.7	2587.8	1941.9	1347.5	763.8	517.6	467.3	450.1
35°	5251.1	4932.1	4033.3	3165.0	2414.4	1682.4	951.7	497.7	383.9	353.4	349.5
37.5°	6102.3	5560.9	4234.5	3081.6	2190.7	1380.6	620.8	340.2	328.3	329.6	328.3
40°	6799.9	6262.5	4513.8	2955.8	1908.8	986.2	372.0	303.1	309.7	313.7	315.0
42.5°	7482.9	6834.3	4859.3	2798.3	1613.6	640.7	301.8	289.9	284.6	291.2	293.9
45°	8032.2	7333.3	5185.0	2614.3	1268.1	378.6	292.5	268.7	259.4	262.1	266.1
47.5°	8471.7	7730.4	5380.9	2399.9	926.6	285.9	284.6	250.2	236.9	234.3	233.0
50°	8886.0	8070.6	5506.6	2140.4	590.4	275.3	263.4	229.0	213.1	210.5	210.5
52.5°	9168.0	8293.0	5549.0	1833.3	352.1	268.7	248.9	211.8	190.6	194.6	197.2
55°	9443.3	8518.0	5461.6	1433.6	270.0	251.5	233.0	190.6	173.4	189.3	194.6
57.5°	9574.4	8551.1	5264.4	996.8	262.1	227.7	210.5	170.8	157.5	166.8	166.8
60°	9680.3	8528.6	4989.0	631.4	255.5	211.8	191.9	154.9	139.0	133.7	129.7
62.5°	9610.1	8438.6	4435.7	411.7	236.9	193.3	174.7	143.0	120.5	105.9	104.6
65°	9460.5	8120.9	3540.9	324.3	219.7	184.0	158.8	128.4	105.9	88.7	87.4
67.5°	9019.7	7347.9	2291.3	268.7	210.5	177.4	146.9	119.1	94.0	76.8	75.5
70°	7963.4	5935.5	702.9	240.9	218.4	170.8	144.3	108.5	83.4	67.5	64.9
72.5°	6296.9	3965.8	260.8	199.9	188.0	164.1	140.3	98.0	71.5	56.9	54.3
75°	4055.8	1295.9	221.1	154.9	160.2	156.2	129.7	90.0	60.9	46.3	45.0
77.5°	1149.0	271.4	201.2	113.8	141.6	150.9	113.8	75.5	54.3	39.7	38.4
80°	240.9	193.3	184.0	80.7	105.9	98.0	76.8	58.2	51.6	34.4	34.4
82.5°	157.5	153.5	157.5	55.6	70.2	71.5	60.9	50.3	45.0	31.8	31.8
85°	111.2	140.3	75.5	39.7	33.1	30.4	35.7	43.7	39.7	26.5	26.5
87.5°	38.4	22.5	15.9	15.9	14.6	14.6	17.2	19.9	21.2	21.2	19.9
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)