

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: P509854

Luminaire Tested: **VERD-M-CA3-150-750-U-T3-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509854
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-CA3-150-750-U-T3-HSS
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 940mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21047 lumens
Efficiency: N/A
Efficacy: 137.6 lumens/watt
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

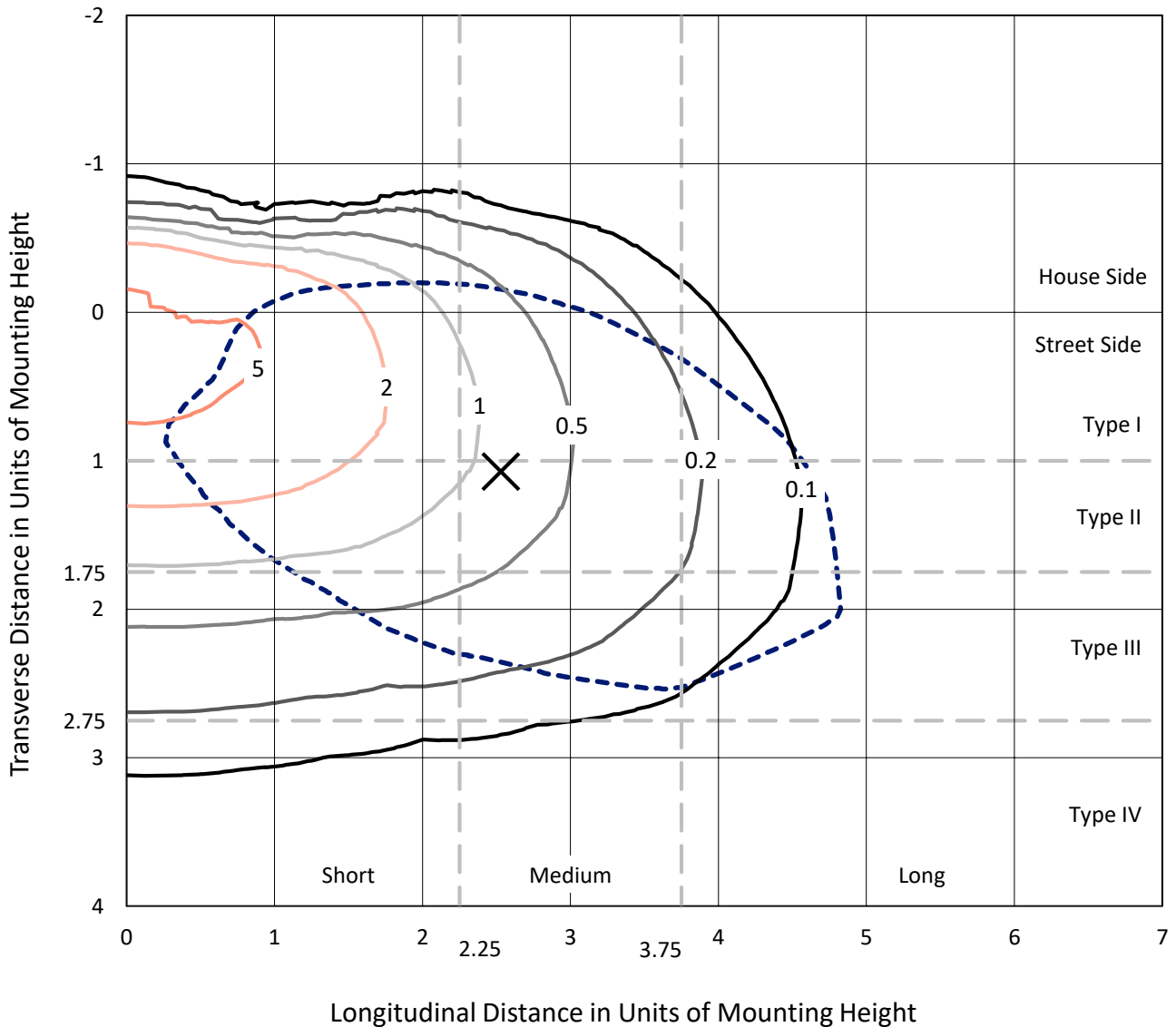
Input Watts (W): 153
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

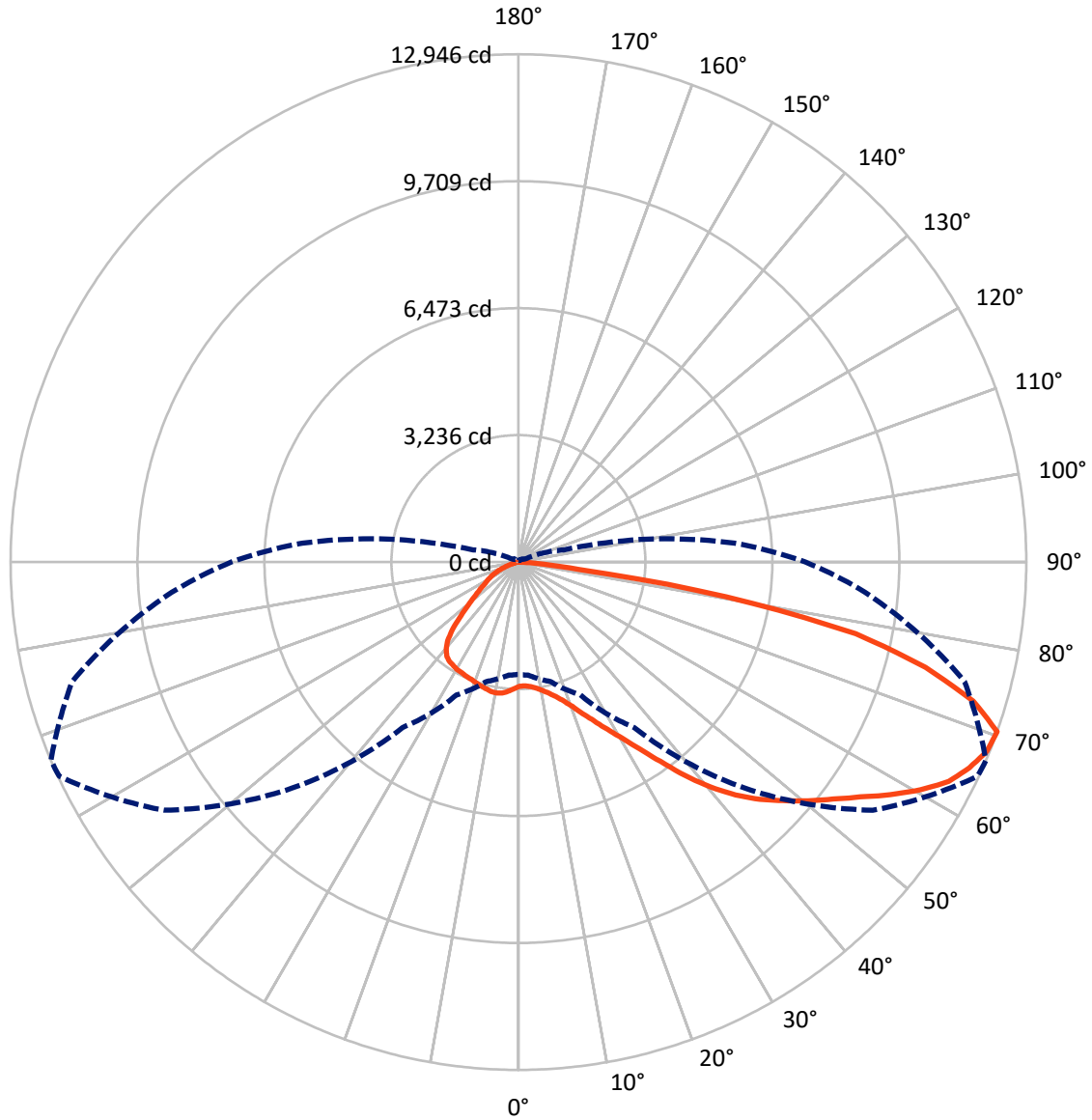
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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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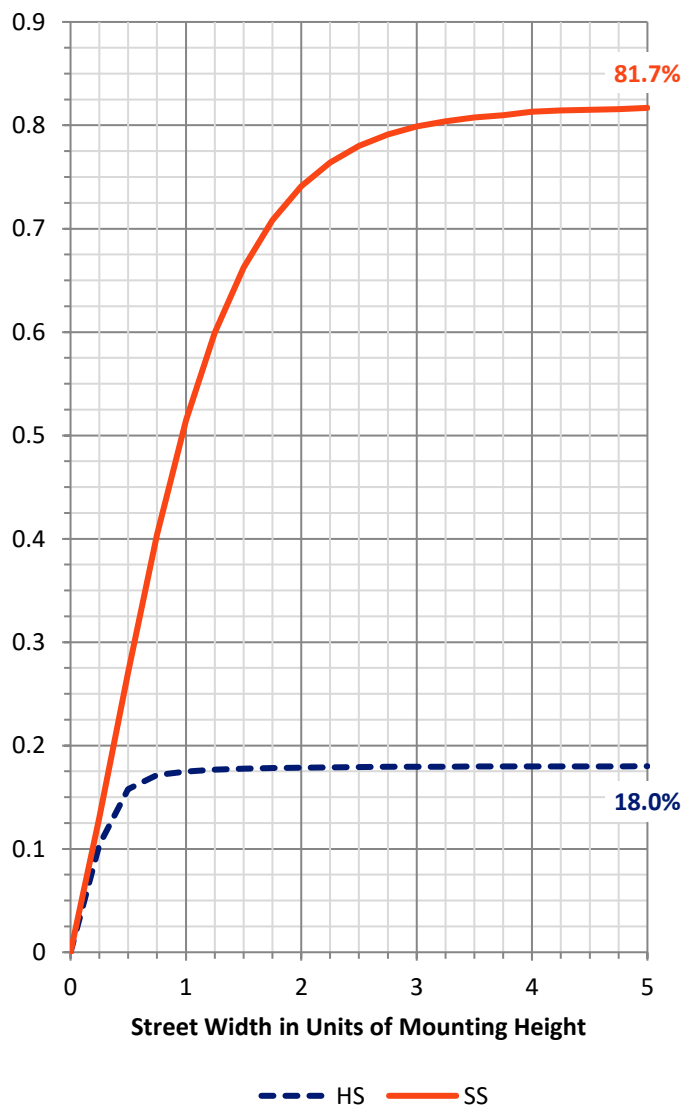
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3834.9	0.0	3834.9
	% Fixture	18.2	0.0	18.2
Street Side	Lumens	17212.1	0.0	17212.1
	% Fixture	81.8	0.0	81.8
Total	Lumens	21047.0	0.0	21047.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.4	1.5
10°-20°	984.1	4.7
20°-30°	1707.4	8.1
30°-40°	2535.8	12.0
40°-50°	3479.0	16.5
50°-60°	4272.4	20.3
60°-70°	4580.5	21.8
70°-80°	2907.8	13.8
80°-90°	264.6	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°	21047.0	100.0
0°-180°	21047.0	100.0

Coefficient of Utilization



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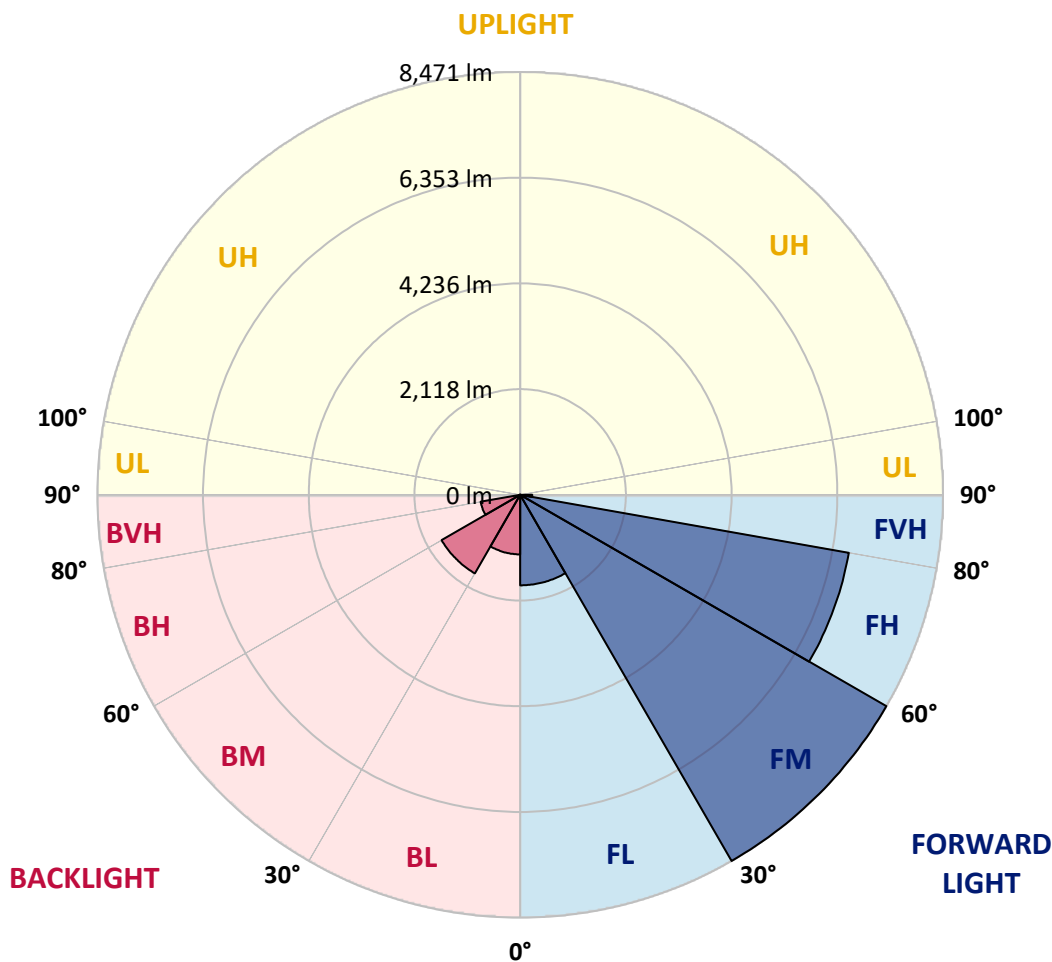
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1813.4	8.6			
FM (30°-60°)	8471.2	40.2			
FH (60°-80°)	6686.1	31.8			G3/7500
FVH (80°-90°)	241.4	1.1			G3/500
BL (0°-30°)	1193.5	5.7	B3/2500		
BM (30°-60°)	1816.1	8.6	B2/2500		
BH (60°-80°)	802.1	3.8	B2/1000		G2/1000
BVH (80°-90°)	23.3	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-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3165.9	3165.9	3165.9	3165.9	3165.9	3165.9	3165.9	3165.9	3165.9	3165.9	3165.9
2.5°	3137.4	3167.0	3149.6	3147.6	3168.0	3148.6	3161.9	3158.8	3156.8	3159.8	3181.2
5°	3219.9	3254.5	3231.1	3224.0	3235.2	3200.6	3197.5	3190.4	3188.3	3189.4	3219.9
7.5°	3335.0	3375.7	3366.6	3348.2	3342.1	3285.1	3274.9	3249.4	3241.3	3243.3	3273.9
10°	3516.2	3557.0	3538.6	3497.9	3472.5	3407.3	3370.6	3338.0	3321.7	3323.8	3356.4
12.5°	3748.4	3787.1	3756.6	3682.2	3668.0	3563.1	3506.1	3436.8	3425.6	3409.3	3443.9
15°	3967.4	4001.0	3986.7	3917.5	3878.8	3754.5	3649.6	3564.1	3553.9	3538.6	3537.6
17.5°	4209.7	4243.3	4216.8	4165.9	4115.0	3967.4	3854.3	3744.3	3717.9	3704.6	3656.8
20°	4468.4	4521.3	4516.2	4474.5	4413.4	4240.3	4080.4	3956.2	3927.6	3903.2	3802.4
22.5°	4735.2	4804.4	4789.1	4766.7	4741.3	4546.8	4360.4	4216.8	4195.5	4143.5	3984.7
25°	5030.5	5078.3	5067.1	5078.3	5061.0	4888.9	4685.3	4510.1	4481.6	4432.7	4189.3
27.5°	5316.6	5366.5	5385.9	5362.4	5373.6	5250.4	5009.1	4852.3	4824.8	4735.2	4435.8
30°	5575.3	5637.4	5664.9	5675.1	5712.7	5585.5	5407.3	5216.8	5207.7	5116.0	4760.6
32.5°	5782.0	5851.2	5918.4	5962.2	6022.3	5966.3	5789.1	5674.1	5675.1	5592.6	5248.4
35°	5931.7	6011.1	6108.9	6225.0	6351.2	6327.8	6222.9	6225.0	6241.3	6268.7	5870.6
37.5°	6097.7	6161.8	6276.9	6438.8	6631.3	6680.1	6665.9	6827.8	6907.2	6956.1	6417.4
40°	6196.4	6261.6	6405.2	6623.1	6903.2	7020.3	7151.6	7435.7	7539.6	7488.7	6884.8
42.5°	6087.5	6145.5	6395.0	6771.8	7126.2	7392.0	7627.2	8042.7	8118.0	7952.0	7278.9
45°	5945.9	6021.3	6284.0	6812.5	7323.7	7756.5	8122.1	8571.2	8627.2	8391.9	7627.2
47.5°	5829.9	5896.0	6202.6	6768.7	7506.0	8130.2	8556.9	9070.1	9084.4	8794.2	7987.7
50°	5681.2	5761.6	6081.4	6714.8	7616.0	8461.2	8955.1	9535.5	9567.1	9210.7	8293.2
52.5°	5525.4	5603.8	5934.7	6626.2	7695.4	8736.1	9368.5	10030.4	10033.5	9651.6	8619.0
55°	5295.2	5378.7	5745.3	6497.9	7719.8	8918.4	9784.0	10535.5	10567.1	10098.6	8914.3
57.5°	5051.9	5123.1	5517.2	6298.3	7629.2	9090.5	10210.6	11096.6	11183.1	10602.7	9167.9
60°	4729.1	4800.3	5216.8	6036.6	7436.8	9284.0	10699.4	11772.7	11781.9	11011.0	9352.2
62.5°	4381.8	4443.9	4826.8	5626.2	7138.4	9358.3	11119.0	12313.5	12312.4	11374.6	9443.9
65°	3969.4	3994.9	4384.9	5122.1	6675.1	9249.4	11304.3	12669.9	12635.3	11636.3	9413.3
67.5°	3480.6	3508.1	3803.4	4495.9	6003.0	8823.7	11221.8	12842.0	12876.6	11869.5	9280.9
70°	2861.5	2894.1	3151.7	3736.2	5146.6	8144.5	11028.4	12916.3	12945.8	11775.8	8872.6
72.5°	2112.0	2155.8	2313.6	2781.0	3906.3	6843.1	10132.2	12102.7	12119.0	10993.7	8022.3
75°	1311.6	1392.0	1540.7	1848.2	2534.6	4799.3	8660.8	10819.6	10717.8	9806.4	6638.4
77.5°	524.4	537.7	612.0	865.6	1236.2	2498.9	6277.9	8600.7	8795.2	7846.1	4748.4
80°	305.5	303.5	320.8	403.3	530.5	854.4	2441.9	4824.8	5377.7	4309.5	2136.4
82.5°	246.4	237.3	237.3	258.7	254.6	359.5	800.4	1409.3	1545.8	1371.7	607.9
85°	129.3	126.3	102.8	127.3	127.3	179.2	307.5	399.2	421.6	367.6	228.1
87.5°	32.6	32.6	32.6	39.7	31.6	37.7	51.9	63.1	65.2	53.0	33.6
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°	3165.9	3165.9	3165.9	3165.9	3165.9	3165.9	3165.9	3165.9	3165.9	3165.9	3165.9
2.5°	3189.4	3198.5	3234.2	3229.1	3235.2	3235.2	3245.4	3256.6	3290.2	3270.8	3262.7
5°	3226.0	3244.4	3289.2	3305.5	3329.9	3332.9	3353.3	3360.4	3397.1	3376.7	3376.7
7.5°	3296.3	3317.7	3359.4	3365.5	3376.7	3357.4	3362.5	3340.1	3364.5	3340.1	3341.1
10°	3375.7	3390.0	3418.5	3377.8	3360.4	3314.6	3304.4	3249.4	3268.8	3237.2	3229.1
12.5°	3452.1	3447.0	3425.6	3353.3	3305.5	3230.1	3198.5	3124.2	3120.1	3078.4	3070.2
15°	3524.4	3488.7	3419.5	3307.5	3226.0	3121.1	3045.8	2964.3	2935.8	2887.9	2883.9
17.5°	3613.0	3551.9	3428.7	3263.7	3130.3	2977.6	2870.6	2779.0	2719.9	2676.1	2675.1
20°	3720.9	3627.2	3432.7	3213.8	3031.5	2836.0	2686.3	2570.2	2485.7	2430.7	2429.7
22.5°	3856.4	3729.1	3470.4	3156.8	2905.3	2664.9	2478.6	2278.0	2161.9	2049.9	2029.5
25°	4015.2	3831.9	3503.0	3127.2	2781.0	2486.7	2209.7	1916.5	1736.2	1646.6	1613.0
27.5°	4238.2	4003.0	3550.9	3071.2	2663.9	2266.8	1863.5	1543.8	1326.9	1250.5	1250.5
30°	4495.9	4218.9	3640.5	3037.6	2501.0	1958.2	1483.7	1140.5	938.9	823.8	820.8
32.5°	4888.9	4476.5	3721.9	2965.3	2303.4	1622.2	1073.3	735.2	573.3	502.0	498.0
35°	5454.1	4967.3	3853.3	2893.0	2017.3	1207.7	681.3	421.6	326.9	286.1	284.1
37.5°	5997.9	5434.7	4136.4	2749.5	1611.0	758.6	377.8	243.4	199.6	194.5	192.5
40°	6380.8	5838.0	4336.0	2530.5	1144.6	402.2	218.9	176.2	173.1	171.1	170.1
42.5°	6798.3	6137.4	4477.5	2251.5	679.2	233.2	178.2	158.9	153.8	151.7	151.7
45°	7137.4	6425.6	4504.0	1852.3	342.2	192.5	162.9	144.6	138.5	142.6	143.6
47.5°	7450.0	6697.5	4414.4	1393.1	231.2	179.2	152.7	134.4	130.3	140.5	140.5
50°	7716.8	6927.6	4208.7	1039.7	216.9	169.0	142.6	124.2	123.2	132.4	133.4
52.5°	7982.6	7112.9	3884.9	785.1	205.7	157.8	132.4	115.1	112.0	118.1	119.1
55°	8193.4	7179.1	3644.6	584.5	197.6	147.7	123.2	105.9	98.8	97.8	99.8
57.5°	8309.5	7121.1	3409.3	429.7	188.4	138.5	114.1	93.7	82.5	82.5	82.5
60°	8311.5	7050.8	3157.8	340.1	178.2	128.3	103.9	80.4	69.2	67.2	67.2
62.5°	8289.1	6925.6	2792.2	295.3	167.0	120.2	90.6	68.2	60.1	57.0	57.0
65°	8190.3	6689.3	2349.3	252.5	153.8	114.1	77.4	61.1	54.0	49.9	49.9
67.5°	7882.8	6246.3	1808.5	220.0	141.5	100.8	70.3	55.0	47.9	43.8	42.8
70°	7318.6	5530.5	1193.5	187.4	129.3	89.6	64.2	49.9	42.8	38.7	37.7
72.5°	6372.6	4501.0	599.8	158.9	111.0	82.5	58.0	43.8	36.7	32.6	32.6
75°	4993.8	3124.2	326.9	126.3	87.6	72.3	50.9	36.7	31.6	28.5	28.5
77.5°	3062.1	1548.9	223.0	97.8	66.2	59.1	40.7	30.5	27.5	26.5	26.5
80°	1117.1	507.1	149.7	69.2	49.9	45.8	32.6	26.5	25.5	25.5	25.5
82.5°	403.3	257.6	100.8	46.8	31.6	34.6	26.5	22.4	21.4	22.4	23.4
85°	166.0	113.0	36.7	26.5	17.3	18.3	16.3	15.3	16.3	17.3	17.3
87.5°	25.5	22.4	13.2	13.2	10.2	9.2	7.1	8.1	10.2	12.2	12.2
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)