

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: P509862

Luminaire Tested: **VERD-M-CA3-150-760-U-T3-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509862
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-CA3-150-760-U-T3-HSS
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5700K, 940mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20601 lumens
Efficiency: N/A
Efficacy: 134.6 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

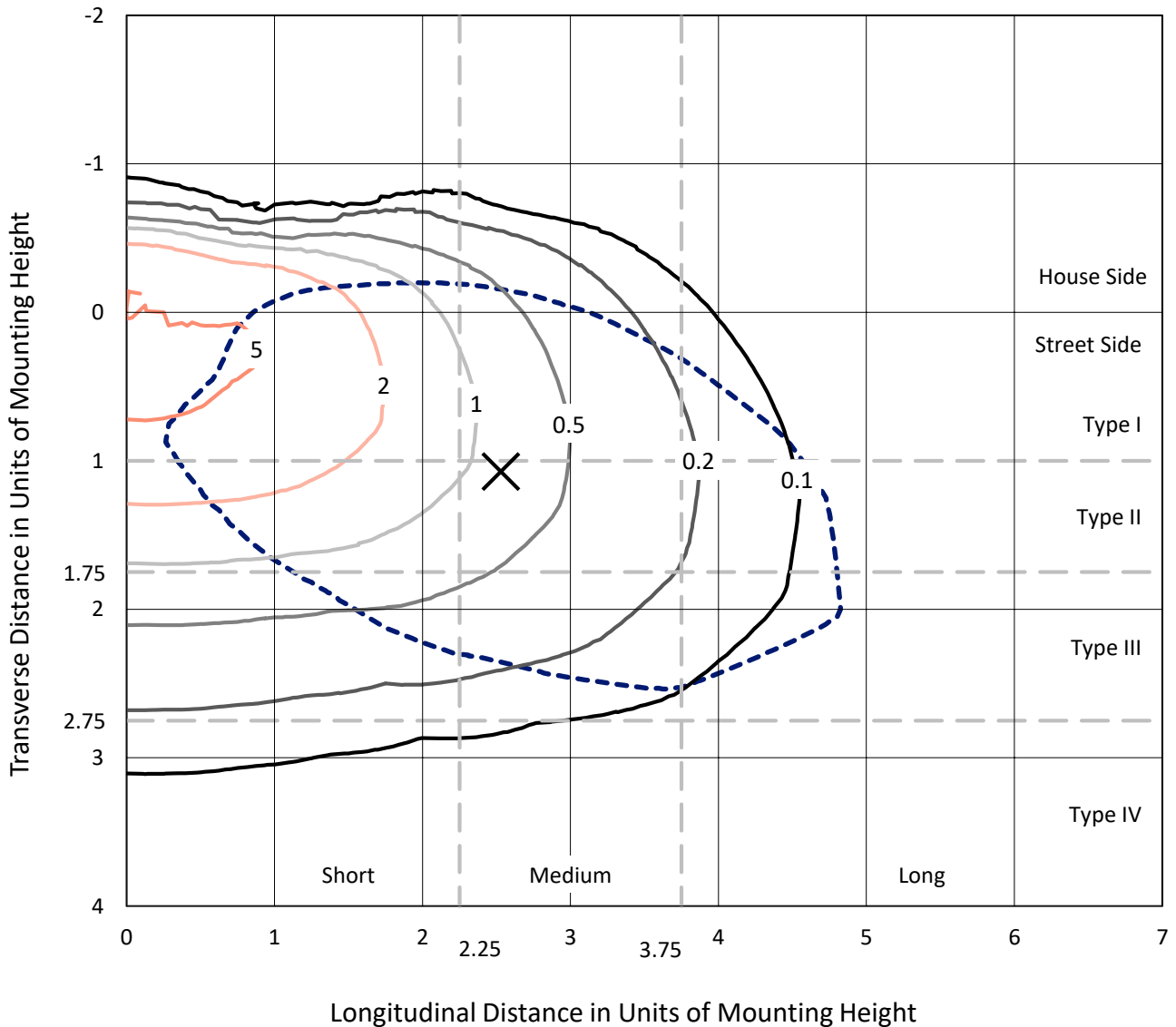
Input Watts (W): 153
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

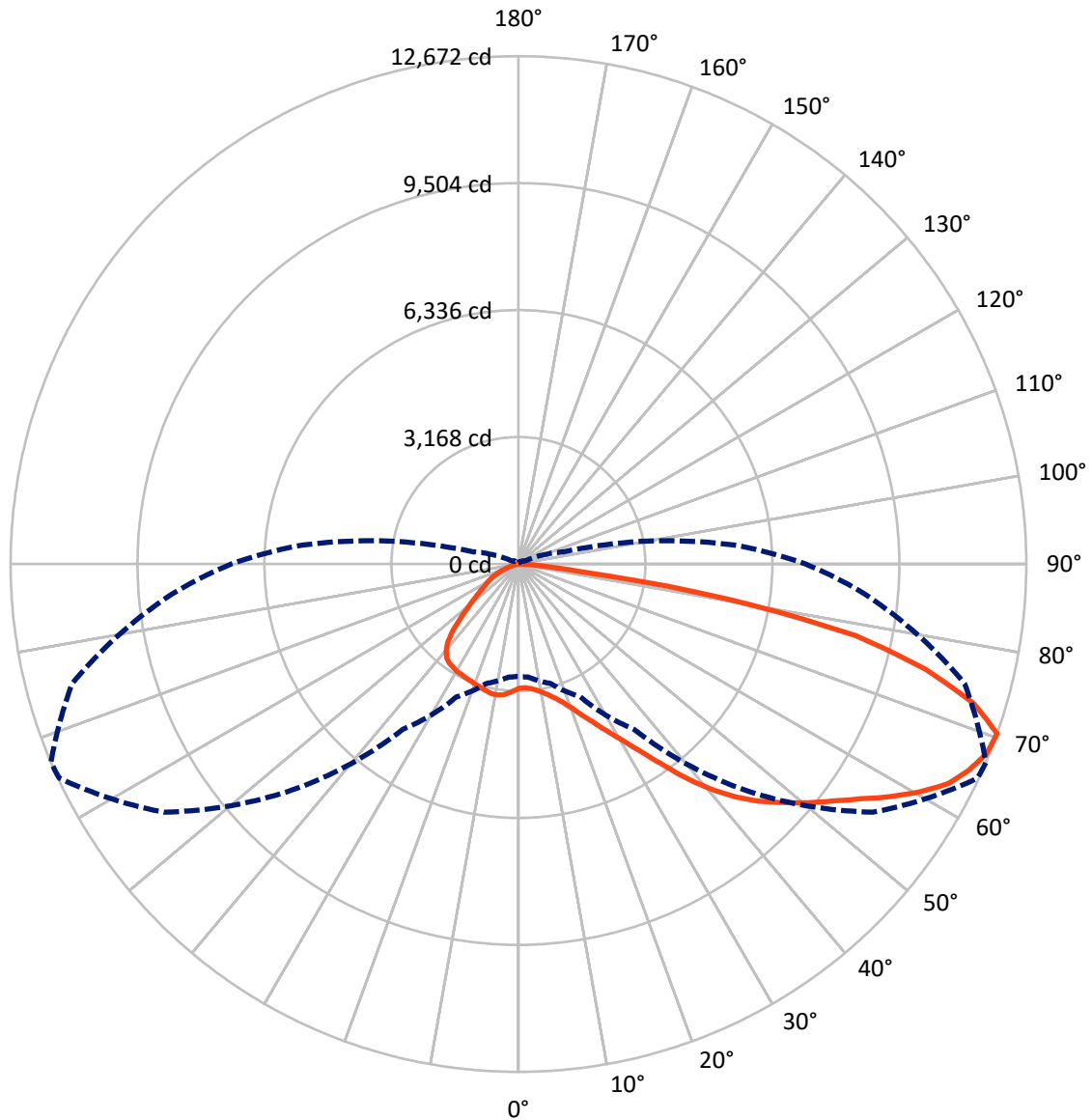
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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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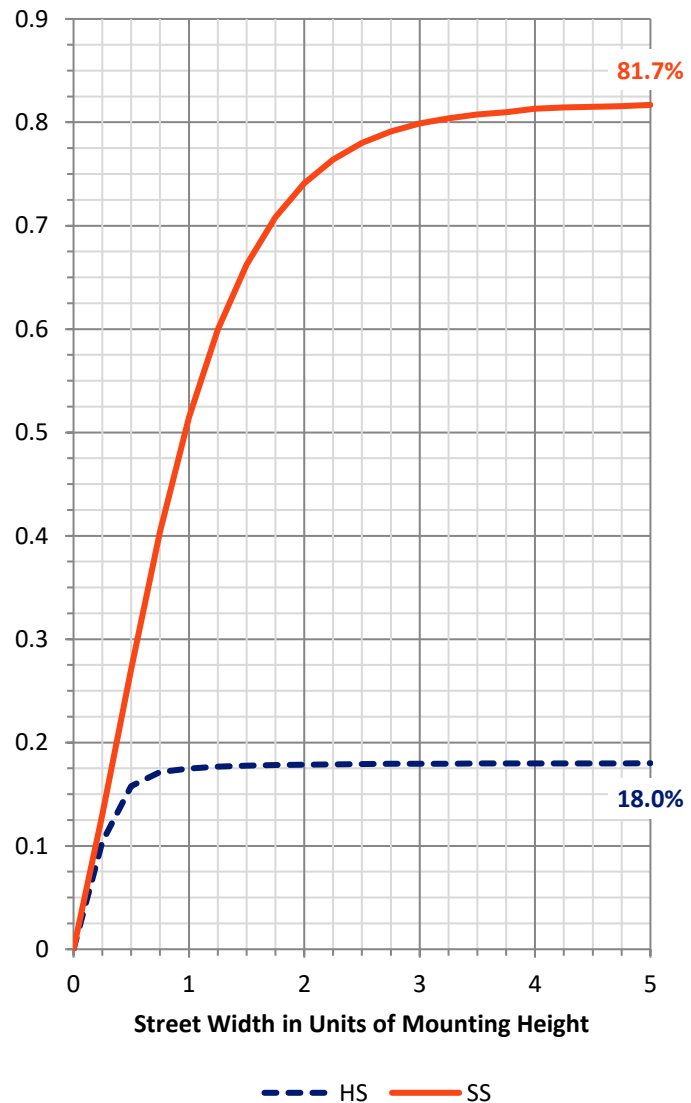
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3753.7	0.0	3753.7
	% Fixture	18.2	0.0	18.2
Street Side	Lumens	16847.3	0.0	16847.3
	% Fixture	81.8	0.0	81.8
Total	Lumens	20601.0	0.0	20601.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.7	1.5
10°-20°	963.2	4.7
20°-30°	1671.2	8.1
30°-40°	2482.1	12.0
40°-50°	3405.3	16.5
50°-60°	4181.9	20.3
60°-70°	4483.4	21.8
70°-80°	2846.2	13.8
80°-90°	259.0	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°	20601.0	100.0
0°-180°	20601.0	100.0



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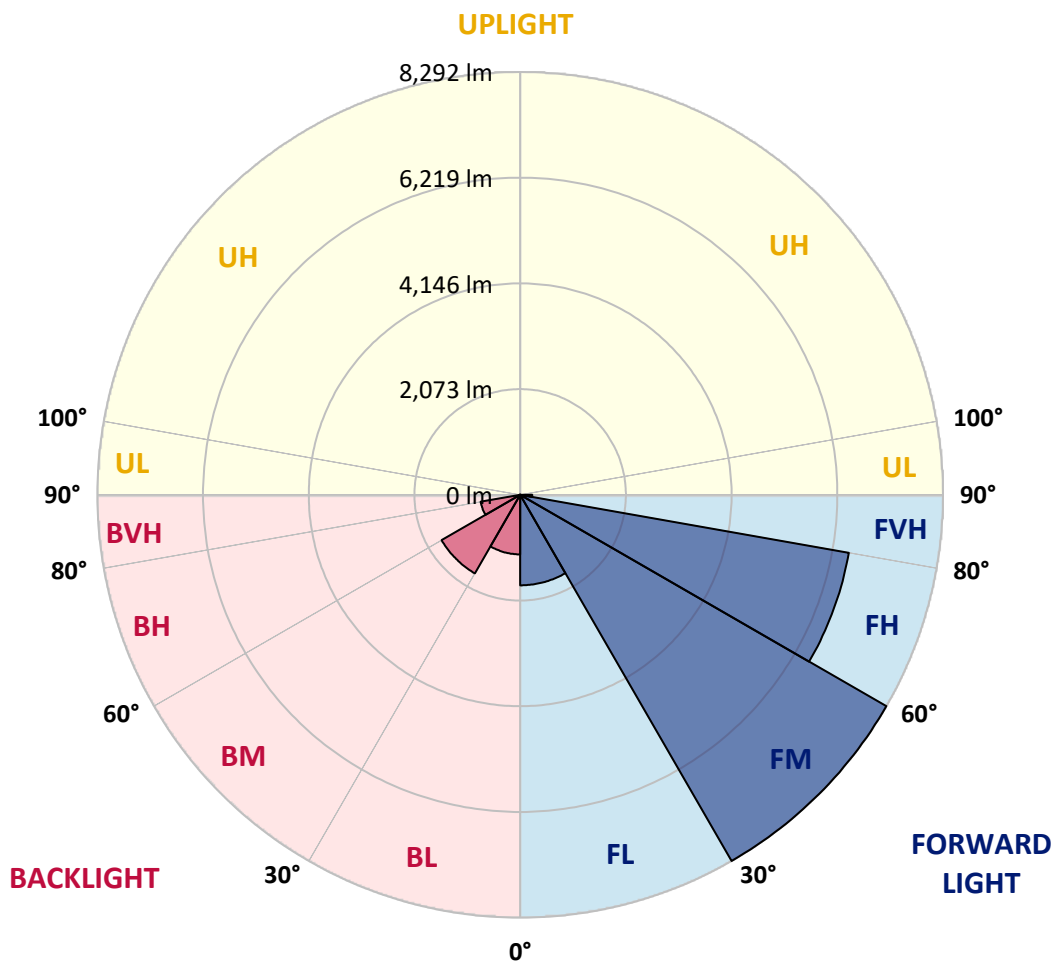
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1774.9	8.6			
FM (30°-60°)	8291.7	40.2			
FH (60°-80°)	6544.4	31.8			G3/7500
FVH (80°-90°)	236.2	1.1			G3/500
BL (0°-30°)	1168.2	5.7	B3/2500		
BM (30°-60°)	1777.6	8.6	B2/2500		
BH (60°-80°)	785.1	3.8	B2/1000		G2/1000
BVH (80°-90°)	22.8	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°	3098.9	3098.9	3098.9	3098.9	3098.9	3098.9	3098.9	3098.9	3098.9	3098.9	3098.9
2.5°	3070.9	3099.9	3082.9	3080.9	3100.8	3081.9	3094.9	3091.9	3089.9	3092.9	3113.8
5°	3151.7	3185.6	3162.6	3155.7	3166.6	3132.7	3129.8	3122.8	3120.8	3121.8	3151.7
7.5°	3264.3	3304.2	3295.2	3277.3	3271.3	3215.5	3205.5	3180.6	3172.6	3174.6	3204.5
10°	3441.7	3481.6	3463.7	3423.8	3398.9	3335.1	3299.2	3267.3	3251.4	3253.3	3285.2
12.5°	3669.0	3706.9	3677.0	3604.2	3590.2	3487.6	3431.8	3364.0	3353.0	3337.1	3371.0
15°	3883.3	3916.2	3902.2	3834.4	3796.6	3675.0	3572.3	3488.6	3478.6	3463.7	3462.7
17.5°	4120.5	4153.4	4127.5	4077.6	4027.8	3883.3	3772.6	3665.0	3639.1	3626.1	3579.3
20°	4373.7	4425.5	4420.5	4379.7	4319.9	4150.4	3993.9	3872.3	3844.4	3820.5	3721.8
22.5°	4634.8	4702.6	4687.7	4665.7	4640.8	4450.4	4268.0	4127.5	4106.6	4055.7	3900.2
25°	4923.9	4970.7	4959.8	4970.7	4953.8	4785.3	4586.0	4414.5	4386.6	4338.8	4100.6
27.5°	5204.0	5252.8	5271.7	5248.8	5259.8	5139.2	4902.9	4749.4	4722.5	4634.8	4341.8
30°	5457.1	5517.9	5544.8	5554.8	5591.7	5467.1	5292.7	5106.3	5097.3	5007.6	4659.7
32.5°	5659.5	5727.2	5793.0	5835.9	5894.7	5839.9	5666.4	5553.8	5554.8	5474.1	5137.2
35°	5806.0	5883.7	5979.4	6093.1	6216.6	6193.7	6091.1	6093.1	6109.0	6135.9	5746.2
37.5°	5968.5	6031.3	6143.9	6302.4	6490.7	6538.6	6524.6	6683.1	6760.9	6808.7	6281.4
40°	6065.1	6128.9	6269.5	6482.8	6756.9	6871.5	7000.1	7278.2	7379.8	7330.0	6738.9
42.5°	5958.5	6015.3	6259.5	6628.3	6975.2	7235.3	7465.6	7872.2	7946.0	7783.5	7124.7
45°	5819.9	5893.7	6150.9	6668.2	7168.5	7592.1	7950.0	8389.5	8444.4	8214.1	7465.6
47.5°	5706.3	5771.1	6071.1	6625.3	7346.9	7957.9	8375.6	8877.9	8891.9	8607.8	7818.4
50°	5560.8	5639.5	5952.5	6572.5	7454.6	8281.9	8765.3	9333.4	9364.3	9015.5	8117.4
52.5°	5408.3	5485.0	5809.0	6485.8	7532.3	8551.0	9170.0	9817.9	9820.8	9447.1	8436.4
55°	5183.0	5264.8	5623.6	6360.2	7556.3	8729.4	9576.6	10312.2	10343.1	9884.6	8725.4
57.5°	4944.8	5014.6	5400.3	6164.8	7467.5	8897.9	9994.3	10861.4	10946.2	10378.0	8973.6
60°	4628.8	4698.6	5106.3	5908.7	7279.2	9087.2	10472.7	11523.3	11532.2	10777.7	9154.0
62.5°	4289.0	4349.8	4724.5	5507.0	6987.1	9160.0	10883.4	12052.5	12051.5	11133.5	9243.7
65°	3885.3	3910.2	4291.9	5013.6	6533.6	9053.4	11064.8	12401.4	12367.5	11389.7	9213.8
67.5°	3406.8	3433.8	3722.8	4400.6	5875.8	8636.7	10984.0	12569.8	12603.7	11618.0	9084.3
70°	2800.8	2832.7	3084.9	3657.0	5037.5	7971.9	10794.7	12642.6	12671.5	11526.3	8684.6
72.5°	2067.2	2110.1	2264.6	2722.1	3823.5	6698.1	9917.5	11846.2	11862.2	10760.8	7852.3
75°	1283.8	1362.5	1508.1	1809.1	2480.9	4697.6	8477.2	10590.3	10490.7	9598.6	6497.7
77.5°	513.3	526.3	599.0	847.2	1210.0	2446.0	6144.9	8418.4	8608.8	7679.9	4647.8
80°	299.0	297.0	314.0	394.7	519.3	836.3	2390.2	4722.5	5263.8	4218.2	2091.2
82.5°	241.2	232.2	232.2	253.2	249.2	351.8	783.4	1379.5	1513.0	1342.6	595.1
85°	126.6	123.6	100.7	124.6	124.6	175.4	301.0	390.7	412.6	359.8	223.3
87.5°	31.9	31.9	31.9	38.9	30.9	36.9	50.8	61.8	63.8	51.8	32.9
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°	3098.9	3098.9	3098.9	3098.9	3098.9	3098.9	3098.9	3098.9	3098.9	3098.9	3098.9
2.5°	3121.8	3130.7	3165.6	3160.7	3166.6	3166.6	3176.6	3187.6	3220.5	3201.5	3193.5
5°	3157.7	3175.6	3219.5	3235.4	3259.3	3262.3	3282.3	3289.2	3325.1	3305.2	3305.2
7.5°	3226.4	3247.4	3288.2	3294.2	3305.2	3286.2	3291.2	3269.3	3293.2	3269.3	3270.3
10°	3304.2	3318.1	3346.0	3306.2	3289.2	3244.4	3234.4	3180.6	3199.5	3168.6	3160.7
12.5°	3378.9	3374.0	3353.0	3282.3	3235.4	3161.6	3130.7	3058.0	3054.0	3013.1	3005.2
15°	3449.7	3414.8	3347.0	3237.4	3157.7	3055.0	2981.2	2901.5	2873.6	2826.7	2822.8
17.5°	3536.4	3476.6	3356.0	3194.5	3064.0	2914.5	2809.8	2720.1	2662.3	2619.4	2618.4
20°	3642.1	3550.4	3360.0	3145.7	2967.3	2775.9	2629.4	2515.8	2433.0	2379.2	2378.2
22.5°	3774.6	3650.0	3396.9	3089.9	2843.7	2608.5	2426.1	2229.7	2116.1	2006.4	1986.5
25°	3930.1	3750.7	3428.8	3061.0	2722.1	2434.0	2162.9	1875.9	1699.4	1611.7	1578.8
27.5°	4148.4	3918.2	3475.6	3006.2	2607.5	2218.7	1824.0	1511.1	1298.7	1224.0	1224.0
30°	4400.6	4129.5	3563.3	2973.3	2448.0	1916.7	1452.2	1116.3	919.0	806.4	803.4
32.5°	4785.3	4381.7	3643.1	2902.5	2254.6	1587.8	1050.6	719.6	561.2	491.4	487.4
35°	5338.5	4862.1	3771.7	2831.7	1974.5	1182.1	666.8	412.6	320.0	280.1	278.1
37.5°	5870.8	5319.6	4048.7	2691.2	1576.8	742.6	369.8	238.2	195.4	190.4	188.4
40°	6245.6	5714.3	4244.1	2476.9	1120.3	393.7	214.3	172.4	169.4	167.5	166.5
42.5°	6654.2	6007.3	4382.7	2203.8	664.8	228.3	174.4	155.5	150.5	148.5	148.5
45°	6986.1	6289.4	4408.6	1813.1	334.9	188.4	159.5	141.5	135.6	139.5	140.5
47.5°	7292.1	6555.5	4320.9	1363.5	226.3	175.4	149.5	131.6	127.6	137.5	137.5
50°	7553.3	6780.8	4119.5	1017.7	212.3	165.5	139.5	121.6	120.6	129.6	130.6
52.5°	7813.4	6962.2	3802.5	768.5	201.3	154.5	129.6	112.6	109.6	115.6	116.6
55°	8019.7	7027.0	3567.3	572.1	193.4	144.5	120.6	103.7	96.7	95.7	97.7
57.5°	8133.4	6970.2	3337.1	420.6	184.4	135.6	111.6	91.7	80.7	80.7	80.7
60°	8135.4	6901.4	3090.9	332.9	174.4	125.6	101.7	78.7	67.8	65.8	65.8
62.5°	8113.4	6778.8	2733.1	289.1	163.5	117.6	88.7	66.8	58.8	55.8	55.8
65°	8016.8	6547.6	2299.5	247.2	150.5	111.6	75.8	59.8	52.8	48.8	48.8
67.5°	7715.7	6114.0	1770.2	215.3	138.5	98.7	68.8	53.8	46.8	42.9	41.9
70°	7163.5	5413.3	1168.2	183.4	126.6	87.7	62.8	48.8	41.9	37.9	36.9
72.5°	6237.6	4405.6	587.1	155.5	108.6	80.7	56.8	42.9	35.9	31.9	31.9
75°	4888.0	3058.0	320.0	123.6	85.7	70.8	49.8	35.9	30.9	27.9	27.9
77.5°	2997.2	1516.0	218.3	95.7	64.8	57.8	39.9	29.9	26.9	25.9	25.9
80°	1093.4	496.4	146.5	67.8	48.8	44.9	31.9	25.9	24.9	24.9	24.9
82.5°	394.7	252.2	98.7	45.8	30.9	33.9	25.9	21.9	20.9	21.9	22.9
85°	162.5	110.6	35.9	25.9	16.9	17.9	15.9	15.0	15.9	16.9	16.9
87.5°	24.9	21.9	13.0	13.0	10.0	9.0	7.0	8.0	10.0	12.0	12.0
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)