

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: P509924

Luminaire Tested: **VERD-M-CA3-170-727-U-T2-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509924
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-3)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-M-CA3-170-727-U-T2-HSS
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 1060mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18930 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

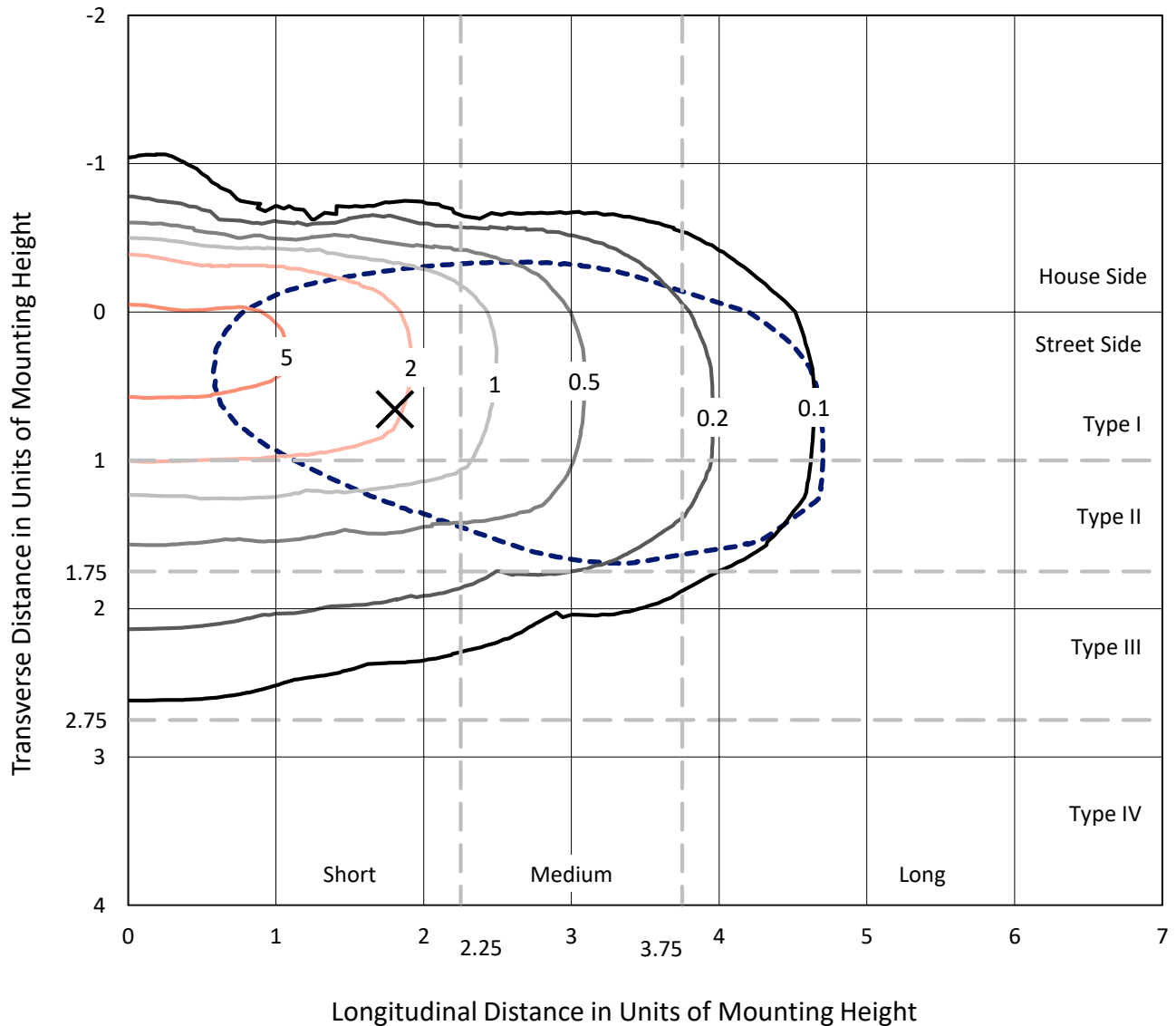
Input Watts (W): 172.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

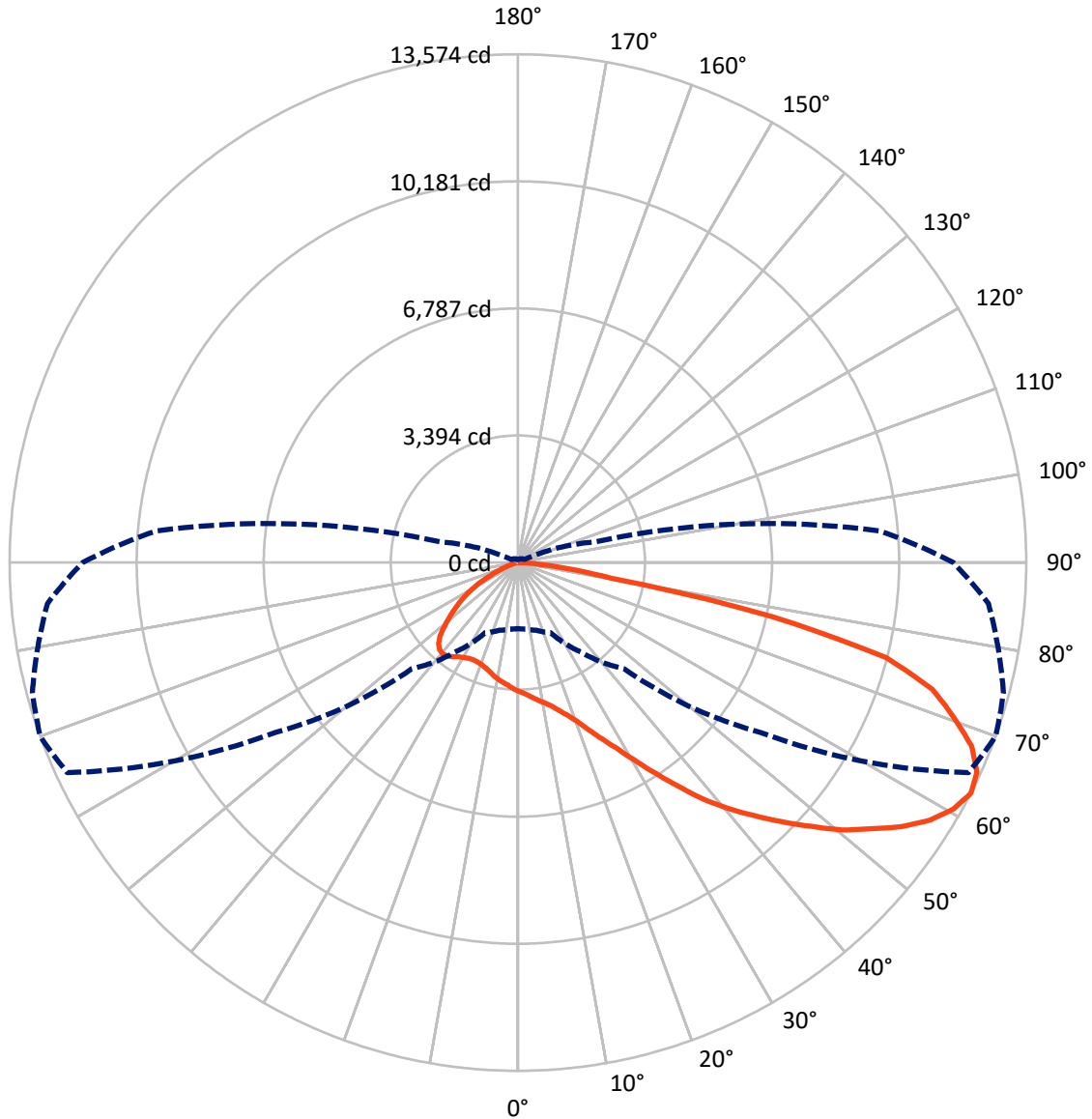
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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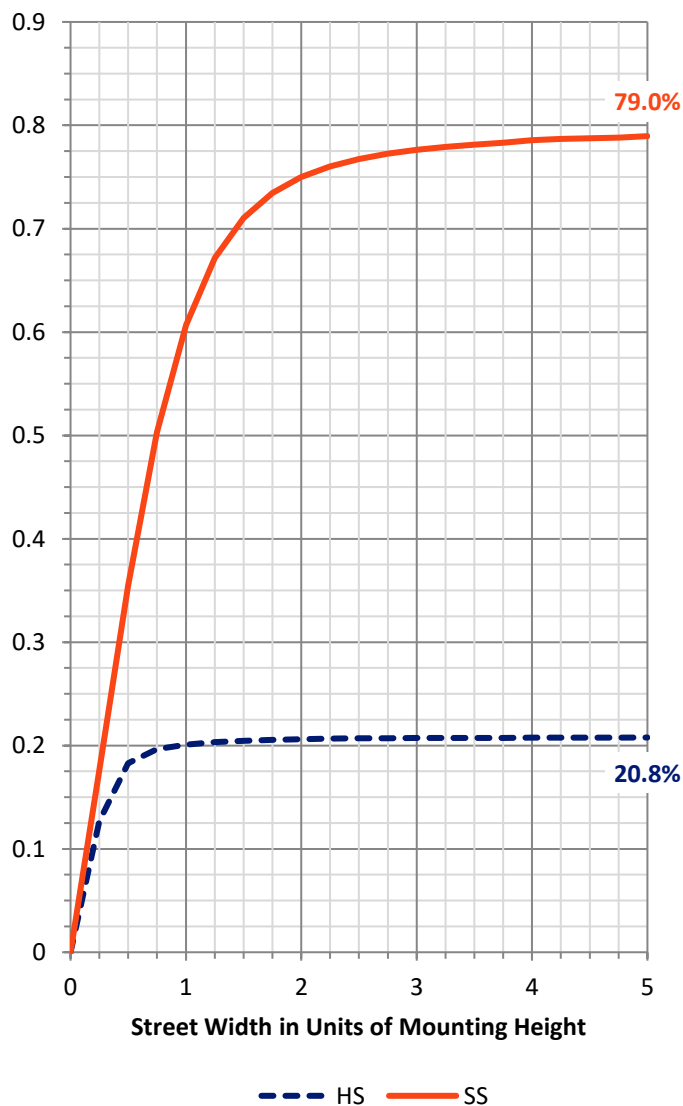
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3980.8	0.0	3980.8
	% Fixture	21.0	0.0	21.0
Street Side	Lumens	14949.2	0.0	14949.2
	% Fixture	79.0	0.0	79.0
Total	Lumens	18930.0	0.0	18930.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	326.7	1.7
10°-20°	975.1	5.2
20°-30°	1653.1	8.7
30°-40°	2430.9	12.8
40°-50°	3237.2	17.1
50°-60°	3786.9	20.0
60°-70°	3808.7	20.1
70°-80°	2411.0	12.7
80°-90°	300.4	1.6
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°	18930.0	100.0
0°-180°	18930.0	100.0



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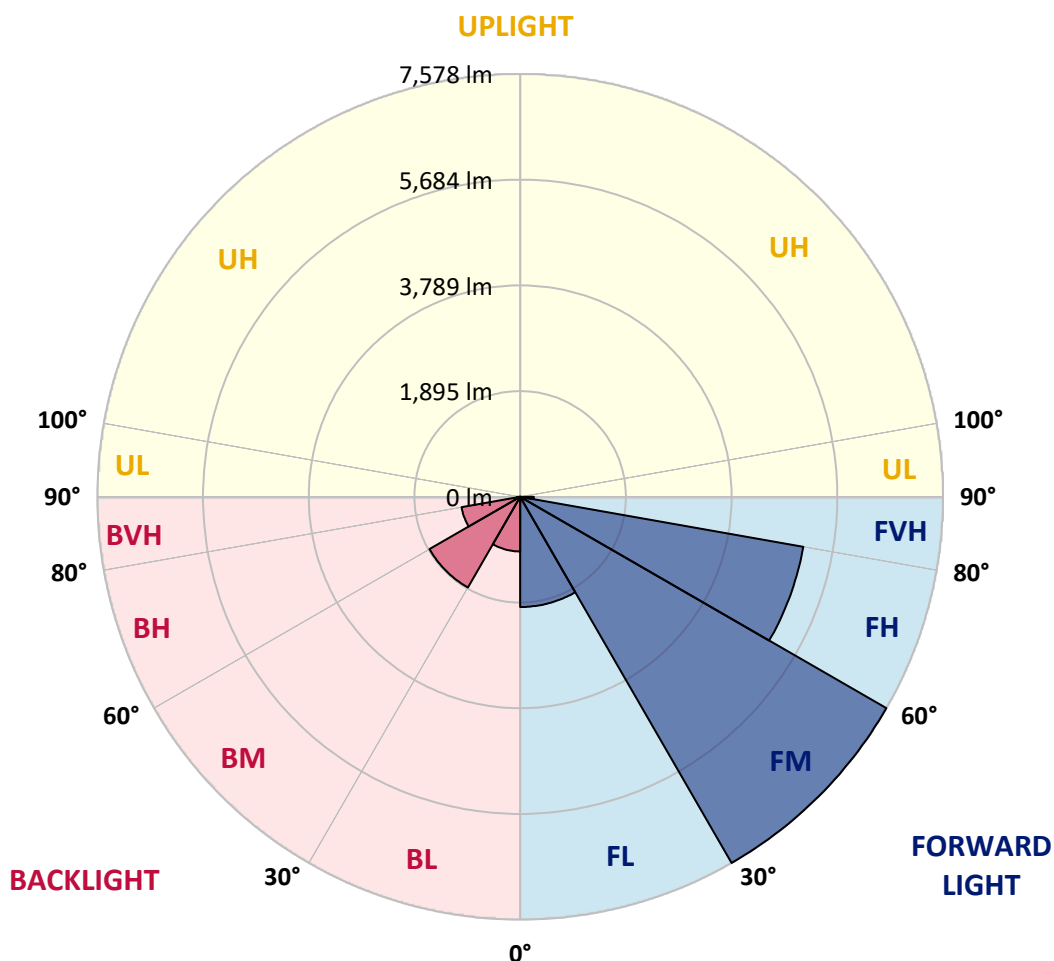
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1974.8	10.4			
FM (30°-60°)	7578.0	40.0			
FH (60°-80°)	5152.8	27.2			G3/7500
FVH (80°-90°)	243.6	1.3			G3/500
BL (0°-30°)	980.1	5.2	B2/1000		
BM (30°-60°)	1877.0	9.9	B2/2500		
BH (60°-80°)	1066.9	5.6	B3/2500		G3/2500
BVH (80°-90°)	56.8	0.3			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	3441.4	3441.4	3441.4	3441.4	3441.4	3441.4	3441.4	3441.4	3441.4	3441.4	3441.4
2.5°	3630.3	3662.1	3637.8	3628.4	3635.9	3598.5	3568.6	3525.6	3505.0	3490.0	3465.7
5°	3814.5	3866.8	3835.0	3815.4	3812.6	3744.3	3704.1	3645.2	3599.4	3559.2	3497.5
7.5°	4008.9	4039.8	4027.6	4005.2	3990.2	3907.0	3836.0	3752.8	3702.3	3649.0	3545.2
10°	4179.1	4216.5	4204.3	4164.1	4150.1	4065.0	3983.7	3870.6	3801.4	3735.0	3592.0
12.5°	4354.8	4396.9	4371.7	4331.5	4319.3	4233.3	4149.2	4011.7	3925.7	3850.9	3652.7
15°	4516.6	4554.9	4537.2	4491.3	4479.2	4406.3	4313.7	4185.6	4092.1	3993.0	3738.7
17.5°	4645.6	4683.9	4661.5	4640.0	4636.3	4564.3	4509.1	4378.2	4289.4	4154.8	3870.6
20°	4740.0	4779.3	4768.1	4778.4	4817.6	4764.3	4730.7	4620.4	4529.7	4383.8	4060.3
22.5°	4814.8	4865.3	4910.2	4930.8	5003.7	4999.9	4992.5	4927.0	4856.0	4704.5	4286.6
25°	4822.3	4880.3	4969.1	5065.4	5198.1	5261.7	5308.5	5298.2	5215.0	5065.4	4599.8
27.5°	4833.5	4893.4	4985.0	5150.5	5387.9	5536.6	5614.2	5661.9	5613.2	5513.2	4956.0
30°	4809.2	4870.9	4985.9	5197.2	5517.9	5793.7	5932.1	6108.7	6114.4	6030.2	5493.6
32.5°	4698.9	4780.2	4919.5	5202.8	5644.1	6062.0	6275.2	6614.5	6688.4	6625.8	6048.0
35°	4514.7	4588.6	4787.7	5153.3	5720.8	6285.4	6675.3	7204.5	7313.9	7310.1	6700.6
37.5°	4310.9	4385.7	4610.1	5036.4	5770.3	6484.6	7027.8	7789.7	8007.6	7961.8	7316.7
40°	4085.6	4164.1	4423.1	4889.6	5746.0	6662.2	7400.8	8357.2	8627.4	8633.0	7905.7
42.5°	3823.8	3888.3	4148.2	4686.7	5665.6	6793.1	7747.7	8954.6	9238.9	9223.0	8461.0
45°	3573.3	3640.6	3867.8	4372.6	5479.6	6866.0	8088.0	9559.5	9870.9	9820.4	9078.0
47.5°	3270.3	3366.6	3625.6	4109.0	5192.5	6860.4	8385.3	10178.4	10528.1	10487.0	9611.0
50°	2516.8	2573.8	3160.0	3836.9	4803.6	6729.5	8676.0	10786.1	11228.4	11148.0	10179.4
52.5°	2267.2	2318.6	2507.4	3510.6	4450.2	6446.3	8918.2	11481.7	11812.7	11750.0	10760.0
55°	2142.8	2170.9	2285.9	2895.4	4105.2	5986.3	9079.9	12099.7	12443.7	12305.4	11303.2
57.5°	1986.7	2021.3	2155.0	2472.9	3680.8	5280.4	9042.5	12656.9	12974.8	12762.6	11781.8
60°	1867.0	1893.2	2018.5	2226.0	3242.3	4549.3	8660.1	13203.8	13363.7	13154.3	12258.6
62.5°	1766.1	1781.0	1868.9	2066.2	2908.5	4015.5	7914.1	13276.8	13574.1	13422.6	12613.9
65°	1640.8	1644.5	1748.3	1902.6	2600.0	3694.8	7273.7	12902.8	13469.4	13418.9	12742.0
67.5°	1494.0	1501.5	1606.2	1724.0	2228.8	3353.5	6276.1	12701.8	13062.7	13030.9	12488.6
70°	1309.8	1324.8	1421.1	1510.8	1887.6	2944.1	4995.3	11907.1	12335.3	12288.6	11653.7
72.5°	1132.2	1123.8	1213.5	1302.3	1572.5	2457.9	3786.4	10539.3	11570.5	11525.7	10569.2
75°	930.2	924.6	1017.2	1101.3	1289.3	1985.8	2663.6	7794.4	10166.3	10304.7	9113.6
77.5°	573.1	577.8	631.1	687.2	873.2	1483.7	1699.7	4336.1	6906.2	8189.9	7152.1
80°	415.1	415.1	454.4	488.0	577.8	904.1	846.1	1808.1	2524.3	3952.8	4460.5
82.5°	269.3	258.0	282.3	311.3	321.6	391.7	387.1	906.9	1286.4	1548.2	1857.7
85°	140.2	155.2	93.5	131.8	139.3	130.0	133.7	425.4	571.2	732.0	805.9
87.5°	21.5	16.8	22.4	30.9	35.5	29.9	26.2	49.6	76.7	101.9	120.6
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°	3441.4	3441.4	3441.4	3441.4	3441.4	3441.4	3441.4	3441.4	3441.4	3441.4	3441.4
2.5°	3449.8	3445.2	3402.2	3339.5	3288.1	3245.1	3217.1	3198.4	3218.9	3181.5	3176.8
5°	3459.2	3427.4	3333.9	3244.2	3175.0	3082.4	3019.8	2977.7	2994.5	2961.8	2948.7
7.5°	3484.4	3426.5	3297.5	3154.4	3023.5	2924.4	2828.1	2735.6	2721.5	2701.0	2701.9
10°	3506.9	3423.7	3255.4	3068.4	2916.0	2741.2	2625.2	2529.9	2508.4	2484.1	2471.9
12.5°	3542.4	3430.2	3203.0	2976.8	2773.0	2571.0	2445.7	2333.6	2312.1	2264.4	2254.1
15°	3613.5	3453.6	3151.6	2863.7	2612.2	2408.3	2246.6	2148.4	2109.2	2055.9	2054.9
17.5°	3706.0	3521.8	3125.4	2757.1	2475.7	2247.5	2076.5	1977.4	1911.0	1879.2	1870.8
20°	3837.8	3610.7	3124.5	2660.8	2333.6	2075.5	1879.2	1767.0	1710.9	1684.7	1668.8
22.5°	4040.7	3741.5	3141.3	2593.5	2190.5	1909.1	1713.7	1559.4	1466.9	1394.9	1405.2
25°	4293.1	3937.9	3179.7	2531.8	2066.2	1750.2	1505.2	1291.1	1125.6	1053.7	1059.3
27.5°	4613.8	4172.5	3278.8	2469.1	1925.0	1579.1	1233.2	961.1	835.8	751.7	758.2
30°	5024.2	4464.2	3408.7	2420.5	1794.1	1339.7	928.4	708.7	598.3	529.2	522.6
32.5°	5515.1	4886.8	3550.8	2387.8	1651.1	1040.6	669.4	519.8	412.3	373.0	378.6
35°	6122.8	5361.8	3767.7	2340.1	1406.1	740.5	477.7	351.5	296.4	288.9	289.8
37.5°	6677.2	5847.9	3982.7	2259.7	1109.7	526.4	324.4	267.4	255.2	252.4	256.2
40°	7220.4	6291.1	4177.2	2142.8	762.9	360.9	238.4	241.2	230.9	223.4	219.7
42.5°	7729.0	6718.3	4329.6	1927.8	521.7	238.4	211.3	219.7	217.8	202.9	196.3
45°	8277.8	7169.9	4413.7	1626.8	328.2	202.9	189.8	204.7	214.1	197.3	189.8
47.5°	8746.2	7610.2	4410.0	1246.2	222.5	191.7	178.6	191.7	202.9	190.7	184.2
50°	9286.5	7974.8	4290.3	790.9	197.3	177.6	171.1	175.8	190.7	182.3	175.8
52.5°	9886.8	8474.1	4109.0	441.3	187.0	168.3	158.9	164.5	177.6	167.4	171.1
55°	10384.1	8888.3	3682.6	301.0	182.3	157.1	151.5	155.2	160.8	150.5	156.1
57.5°	10828.2	9230.4	3251.6	246.8	175.8	149.6	148.7	141.2	140.2	133.7	128.1
60°	11277.9	9500.6	2670.1	223.4	169.2	150.5	134.6	124.3	115.9	109.4	106.6
62.5°	11622.9	9687.6	2112.0	201.9	159.9	141.2	123.4	106.6	92.6	84.1	84.1
65°	11723.9	9604.4	1486.5	183.2	149.6	132.8	110.3	86.9	70.1	64.5	61.7
67.5°	11400.4	9126.7	1035.0	169.2	139.3	123.4	97.2	71.1	56.1	48.6	46.7
70°	10576.7	8327.3	610.5	149.6	126.2	107.5	88.8	58.0	45.8	38.3	36.5
72.5°	9359.5	7128.7	380.5	127.1	108.5	87.9	66.4	47.7	36.5	29.9	29.0
75°	7730.8	5557.1	248.7	98.2	86.0	69.2	50.5	38.3	31.8	25.2	23.4
77.5°	6199.4	3931.3	222.5	74.8	63.6	49.6	38.3	31.8	26.2	22.4	22.4
80°	3567.6	2243.8	182.3	51.4	39.3	37.4	29.9	26.2	24.3	21.5	20.6
82.5°	1753.0	1078.0	117.8	31.8	22.4	24.3	25.2	23.4	20.6	18.7	18.7
85°	604.0	359.0	47.7	20.6	15.0	15.0	15.9	16.8	15.9	15.0	15.0
87.5°	93.5	68.2	13.1	12.2	9.3	8.4	9.3	10.3	10.3	9.3	9.3
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)