

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: P509958

Luminaire Tested: **VERD-M-CA3-170-760-U-T3-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509958
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-CA3-170-760-U-T3-HSS
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5700K, 1060mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22745 lumens
Efficiency: N/A
Efficacy: 131.6 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

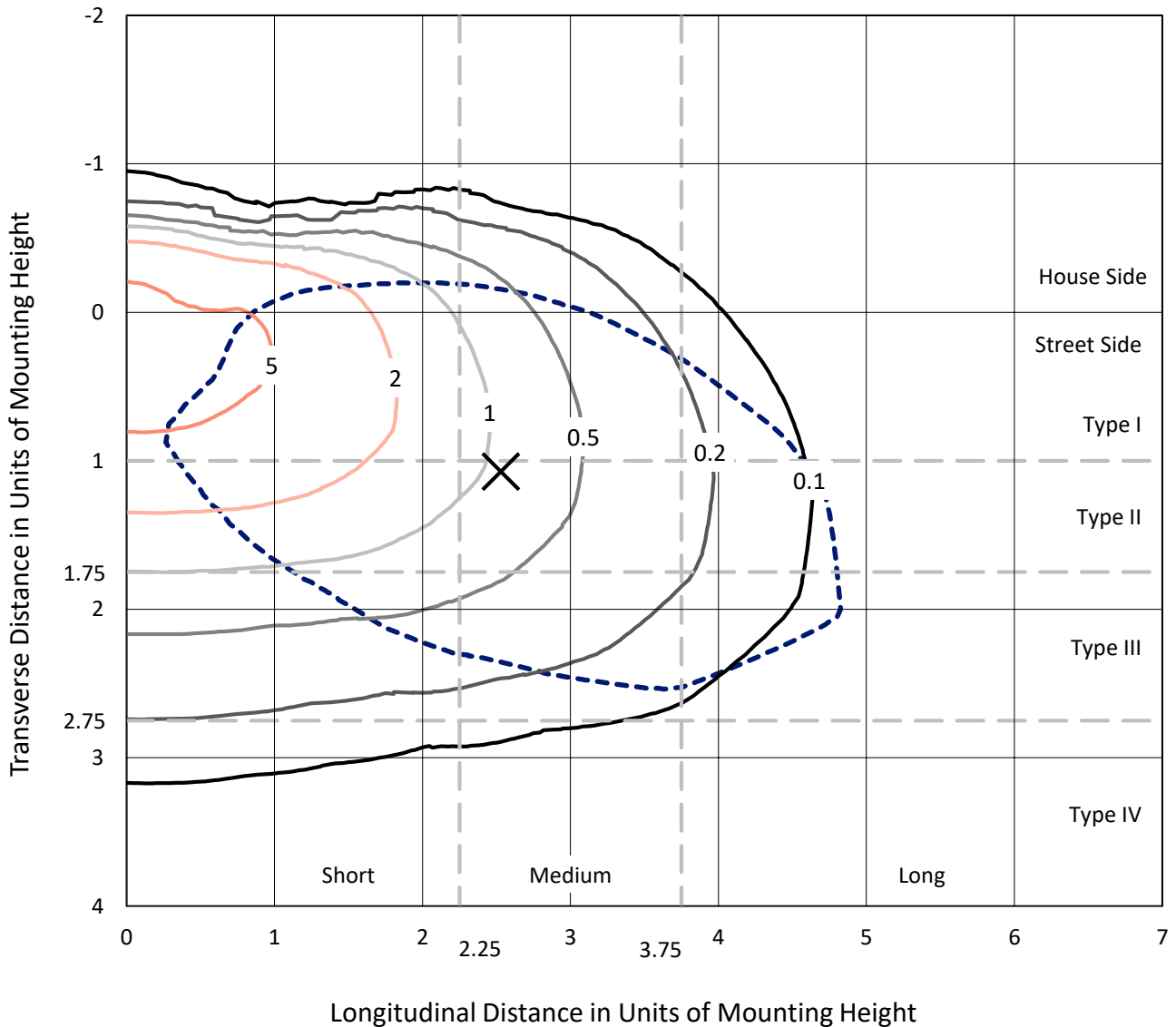
Input Watts (W): 172.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

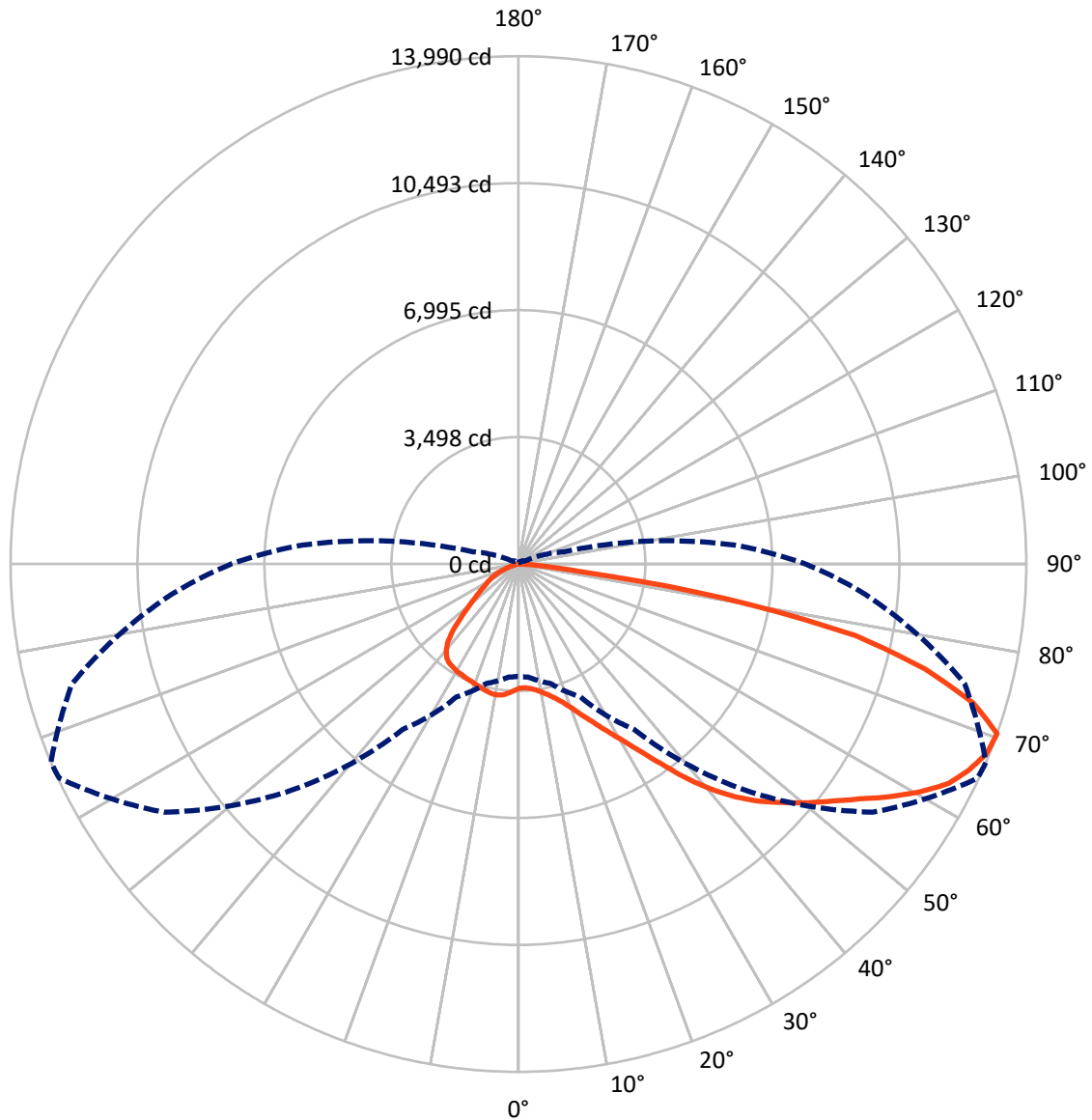
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type 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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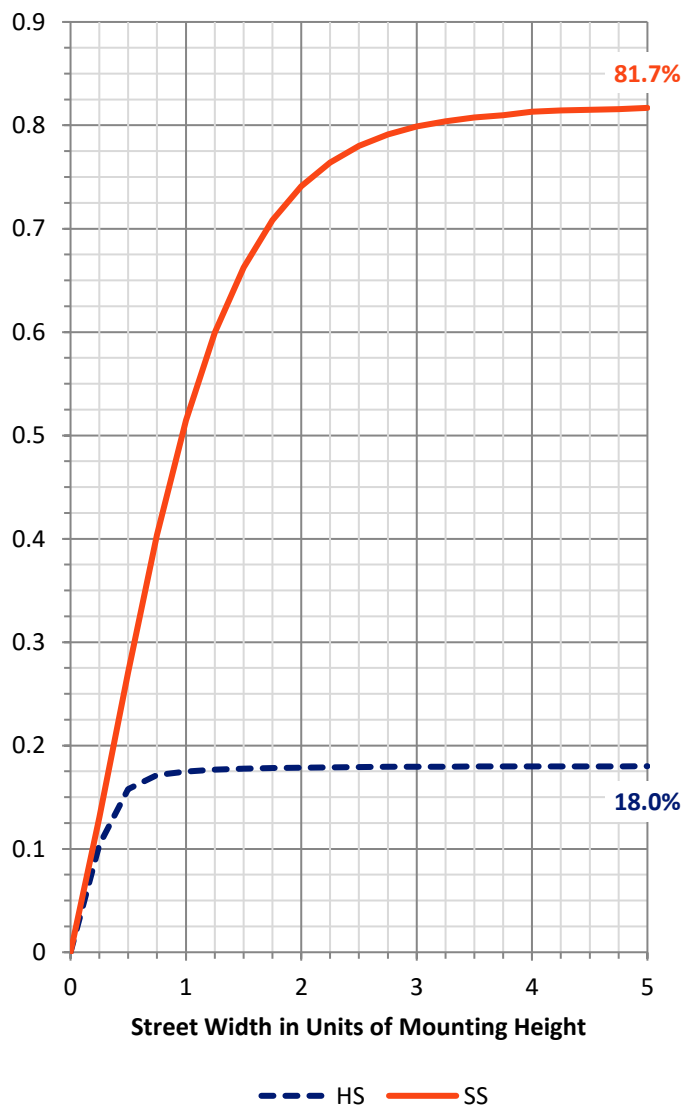
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4144.3	0.0	4144.3
	% Fixture	18.2	0.0	18.2
Street Side	Lumens	18600.7	0.0	18600.7
	% Fixture	81.8	0.0	81.8
Total	Lumens	22745.0	0.0	22745.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	340.9	1.5
10°-20°	1063.4	4.7
20°-30°	1845.1	8.1
30°-40°	2740.4	12.0
40°-50°	3759.7	16.5
50°-60°	4617.1	20.3
60°-70°	4950.0	21.8
70°-80°	3142.4	13.8
80°-90°	286.0	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°	22745.0	100.0
0°-180°	22745.0	100.0

Coefficient of Utilization



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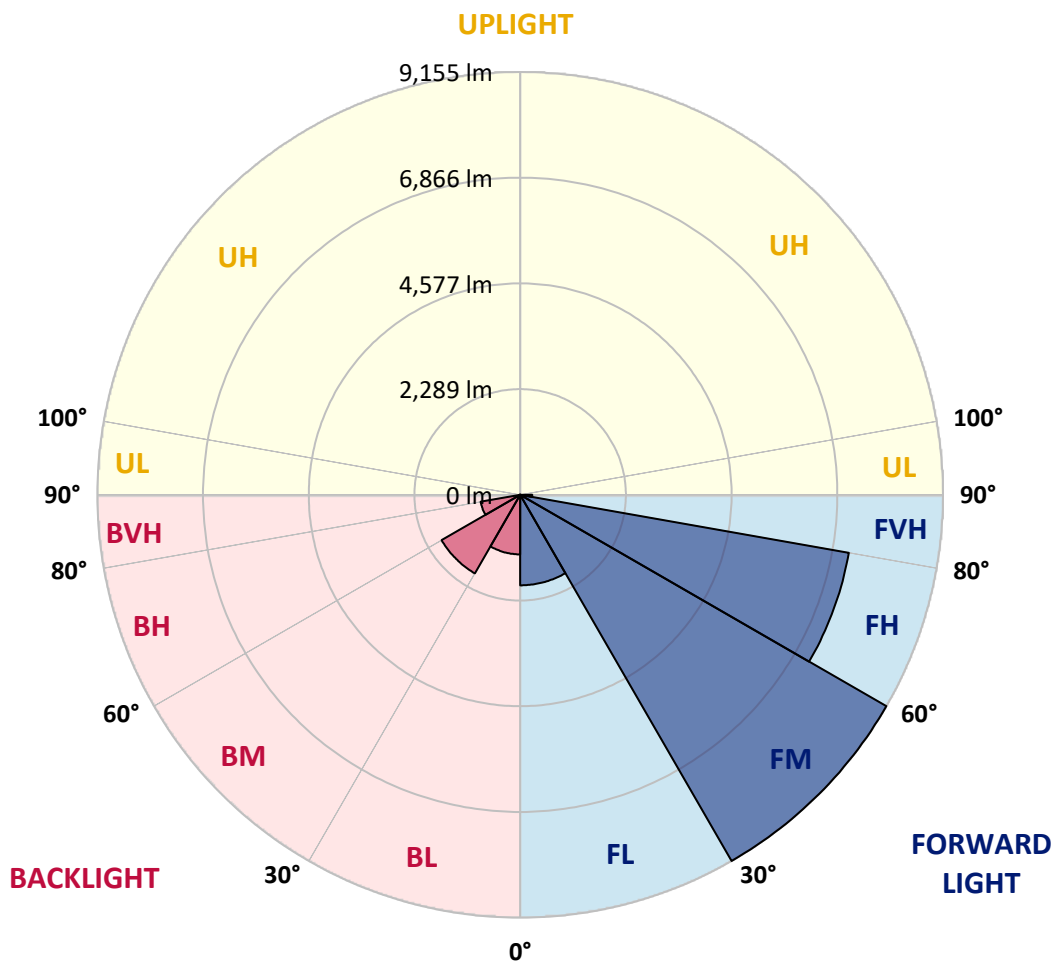
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1959.7	8.6			
FM (30°-60°)	9154.6	40.2			
FH (60°-80°)	7225.5	31.8			G3/7500
FVH (80°-90°)	260.8	1.1			G3/500
BL (0°-30°)	1289.8	5.7	B3/2500		
BM (30°-60°)	1962.6	8.6	B2/2500		
BH (60°-80°)	866.8	3.8	B2/1000		G2/1000
BVH (80°-90°)	25.1	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°	3421.4	3421.4	3421.4	3421.4	3421.4	3421.4	3421.4	3421.4	3421.4	3421.4	3421.4
2.5°	3390.5	3422.5	3403.8	3401.6	3423.6	3402.7	3417.0	3413.7	3411.5	3414.8	3437.9
5°	3479.7	3517.1	3491.8	3484.1	3496.2	3458.8	3455.5	3447.8	3445.6	3446.7	3479.7
7.5°	3604.0	3648.1	3638.2	3618.3	3611.7	3550.1	3539.1	3511.6	3502.8	3505.0	3538.0
10°	3799.9	3843.9	3824.1	3780.1	3752.6	3682.2	3642.6	3607.3	3589.7	3591.9	3627.1
12.5°	4050.8	4092.6	4059.6	3979.3	3963.9	3850.5	3788.9	3714.1	3702.0	3684.4	3721.8
15°	4287.4	4323.7	4308.3	4233.5	4191.7	4057.4	3944.1	3851.6	3840.6	3824.1	3823.0
17.5°	4549.3	4585.7	4557.0	4502.0	4447.0	4287.4	4165.3	4046.4	4017.8	4003.5	3951.8
20°	4828.9	4886.1	4880.6	4835.5	4769.4	4582.4	4409.6	4275.3	4244.5	4218.1	4109.2
22.5°	5117.2	5192.0	5175.5	5151.3	5123.8	4913.6	4712.2	4557.0	4533.9	4477.8	4306.1
25°	5436.3	5488.0	5475.9	5488.0	5469.3	5283.4	5063.3	4874.0	4843.2	4790.3	4527.3
27.5°	5745.6	5799.5	5820.4	5795.1	5807.2	5674.0	5413.2	5243.7	5214.0	5117.2	4793.6
30°	6025.1	6092.2	6121.9	6132.9	6173.6	6036.1	5843.5	5637.7	5627.8	5528.8	5144.7
32.5°	6248.5	6323.3	6395.9	6443.2	6508.2	6447.7	6256.2	6131.8	6132.9	6043.8	5671.8
35°	6410.2	6496.1	6601.7	6727.2	6863.6	6838.3	6725.0	6727.2	6744.8	6774.5	6344.2
37.5°	6589.6	6658.9	6783.3	6958.3	7166.3	7219.1	7203.7	7378.6	7464.5	7517.3	6935.2
40°	6696.4	6766.8	6922.0	7157.5	7460.1	7586.6	7728.6	8035.6	8147.9	8092.9	7440.3
42.5°	6578.6	6641.3	6910.9	7318.1	7701.1	7988.3	8242.5	8691.5	8772.9	8593.6	7866.2
45°	6425.6	6507.1	6791.0	7362.1	7914.6	8382.3	8777.3	9262.7	9323.2	9069.0	8242.5
47.5°	6300.2	6371.7	6703.0	7314.8	8111.6	8786.1	9247.2	9801.9	9817.3	9503.7	8632.1
50°	6139.5	6226.5	6572.0	7256.5	8230.4	9143.8	9677.5	10304.8	10338.9	9953.7	8962.2
52.5°	5971.1	6055.9	6413.5	7160.8	8316.2	9440.9	10124.3	10839.6	10842.9	10430.2	9314.4
55°	5722.4	5812.7	6208.8	7022.1	8342.7	9637.9	10573.3	11385.5	11419.6	10913.4	9633.5
57.5°	5459.4	5536.5	5962.3	6806.4	8244.7	9823.9	11034.4	11991.8	12085.4	11458.1	9907.5
60°	5110.6	5187.6	5637.7	6523.6	8036.7	10033.0	11562.6	12722.5	12732.4	11899.4	10106.7
62.5°	4735.3	4802.4	5216.2	6080.1	7714.3	10113.3	12016.0	13306.9	13305.8	12292.2	10205.8
65°	4289.6	4317.1	4738.6	5535.4	7213.6	9995.6	12216.3	13692.0	13654.6	12575.1	10172.7
67.5°	3761.4	3791.1	4110.3	4858.6	6487.3	9535.6	12127.2	13878.0	13915.4	12827.1	10029.7
70°	3092.3	3127.5	3406.0	4037.6	5561.8	8801.6	11918.1	13958.4	13990.3	12725.8	9588.4
72.5°	2282.4	2329.7	2500.3	3005.4	4221.4	7395.2	10949.7	13079.1	13096.7	11880.7	8669.5
75°	1417.4	1504.3	1665.0	1997.4	2739.1	5186.5	9359.5	11692.5	11582.4	10597.5	7174.0
77.5°	566.7	581.0	661.4	935.4	1336.0	2700.6	6784.4	9294.6	9504.8	8479.1	5131.5
80°	330.1	327.9	346.6	435.8	573.3	923.3	2638.9	5214.0	5811.6	4657.2	2308.8
82.5°	266.3	256.4	256.4	279.5	275.1	388.5	865.0	1523.0	1670.5	1482.3	657.0
85°	139.8	136.5	111.1	137.6	137.6	193.7	332.3	431.4	455.6	397.3	246.5
87.5°	35.2	35.2	35.2	42.9	34.1	40.7	56.1	68.2	70.4	57.2	36.3
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°	3421.4	3421.4	3421.4	3421.4	3421.4	3421.4	3421.4	3421.4	3421.4	3421.4	3421.4
2.5°	3446.7	3456.6	3495.1	3489.6	3496.2	3496.2	3507.2	3519.3	3555.6	3534.7	3525.9
5°	3486.3	3506.1	3554.5	3572.1	3598.5	3601.8	3623.8	3631.5	3671.2	3649.2	3649.2
7.5°	3562.2	3585.3	3630.4	3637.1	3649.2	3628.2	3633.8	3609.5	3636.0	3609.5	3610.6
10°	3648.1	3663.5	3694.3	3650.3	3631.5	3582.0	3571.0	3511.6	3532.5	3498.4	3489.6
12.5°	3730.6	3725.1	3702.0	3623.8	3572.1	3490.7	3456.6	3376.2	3371.8	3326.7	3317.9
15°	3808.7	3770.2	3695.4	3574.3	3486.3	3372.9	3291.5	3203.5	3172.7	3120.9	3116.5
17.5°	3904.5	3838.4	3705.3	3527.0	3382.8	3217.8	3102.2	3003.2	2939.4	2892.0	2890.9
20°	4021.1	3919.9	3709.7	3473.1	3276.1	3064.8	2903.0	2777.6	2686.2	2626.8	2625.7
22.5°	4167.5	4029.9	3750.4	3411.5	3139.6	2879.9	2678.5	2461.8	2336.3	2215.2	2193.2
25°	4339.2	4141.1	3785.6	3379.5	3005.4	2687.3	2388.0	2071.1	1876.3	1779.5	1743.1
27.5°	4580.2	4325.9	3837.3	3319.0	2878.8	2449.6	2013.9	1668.3	1433.9	1351.4	1351.4
30°	4858.6	4559.2	3934.2	3282.7	2702.8	2116.2	1603.4	1232.5	1014.6	890.3	887.0
32.5°	5283.4	4837.7	4022.2	3204.6	2489.3	1753.0	1159.9	794.5	619.6	542.5	538.1
35°	5894.1	5368.1	4164.2	3126.4	2180.0	1305.2	736.2	455.6	353.3	309.2	307.0
37.5°	6481.8	5873.2	4470.1	2971.3	1740.9	819.8	408.3	263.0	215.7	210.2	208.0
40°	6895.5	6309.0	4685.8	2734.7	1236.9	434.7	236.6	190.4	187.1	184.9	183.8
42.5°	7346.7	6632.5	4838.8	2433.1	734.0	252.0	192.6	171.7	166.2	164.0	164.0
45°	7713.2	6944.0	4867.4	2001.8	369.8	208.0	176.1	156.3	149.7	154.1	155.2
47.5°	8051.0	7237.8	4770.5	1505.4	249.8	193.7	165.1	145.3	140.9	151.9	151.9
50°	8339.4	7486.5	4548.2	1123.6	234.4	182.7	154.1	134.3	133.2	143.1	144.2
52.5°	8626.6	7686.8	4198.3	848.5	222.3	170.6	143.1	124.4	121.1	127.7	128.8
55°	8854.4	7758.3	3938.6	631.7	213.5	159.6	133.2	114.4	106.7	105.6	107.8
57.5°	8979.8	7695.6	3684.4	464.4	203.6	149.7	123.3	101.2	89.1	89.1	89.1
60°	8982.0	7619.7	3412.6	367.6	192.6	138.7	112.2	86.9	74.8	72.6	72.6
62.5°	8957.8	7484.3	3017.5	319.1	180.5	129.9	97.9	73.7	64.9	61.6	61.6
65°	8851.1	7229.0	2538.8	272.9	166.2	123.3	83.6	66.0	58.3	53.9	53.9
67.5°	8518.7	6750.3	1954.4	237.7	153.0	108.9	75.9	59.4	51.7	47.3	46.2
70°	7909.1	5976.6	1289.8	202.5	139.8	96.8	69.3	53.9	46.2	41.8	40.7
72.5°	6886.7	4864.1	648.2	171.7	120.0	89.1	62.7	47.3	39.6	35.2	35.2
75°	5396.7	3376.2	353.3	136.5	94.6	78.1	55.0	39.6	34.1	30.8	30.8
77.5°	3309.1	1673.8	241.0	105.6	71.5	63.8	44.0	33.0	29.7	28.6	28.6
80°	1207.2	548.0	161.8	74.8	53.9	49.5	35.2	28.6	27.5	27.5	27.5
82.5°	435.8	278.4	108.9	50.6	34.1	37.4	28.6	24.2	23.1	24.2	25.3
85°	179.4	122.2	39.6	28.6	18.7	19.8	17.6	16.5	17.6	18.7	18.7
87.5°	27.5	24.2	14.3	14.3	11.0	9.9	7.7	8.8	11.0	13.2	13.2
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)