

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: P510308

Luminaire Tested: **VERD-M-CA4-250-727-U-T2-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510308
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-CA4-250-727-U-T2-HSS
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 2700K, 1130mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26780 lumens
Efficiency: N/A
Efficacy: 106.4 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

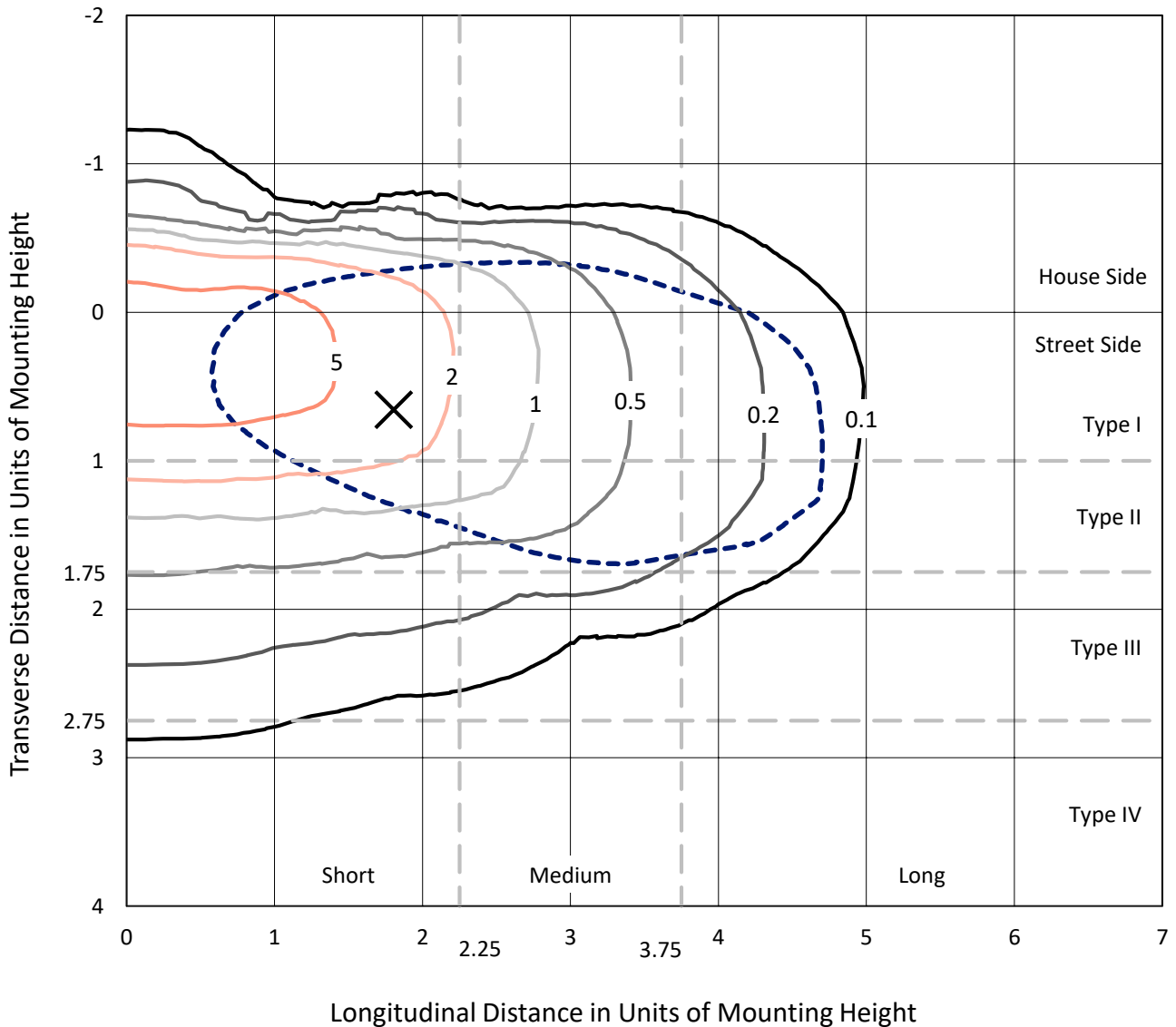
Input Watts (W): 251.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

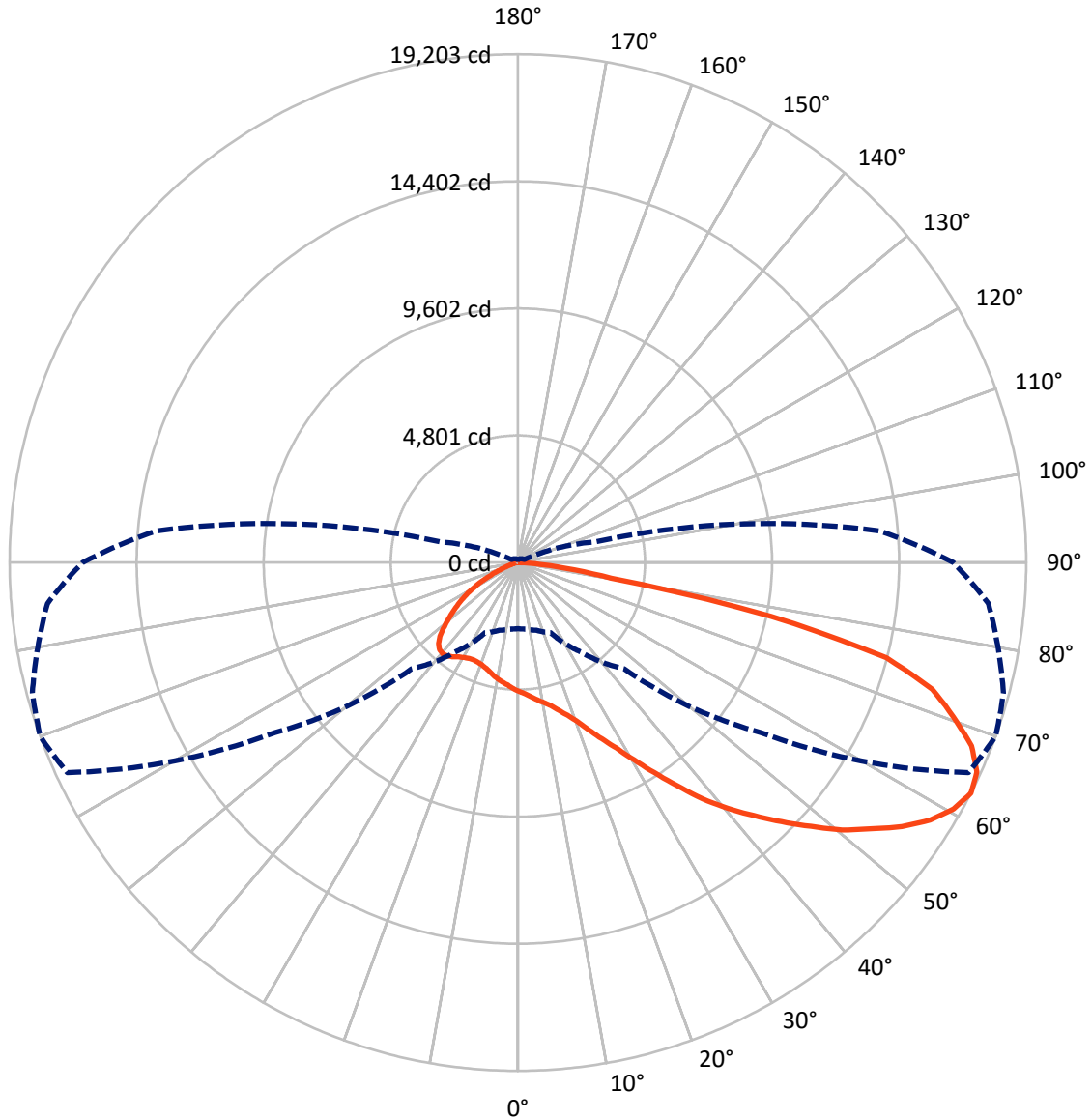
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 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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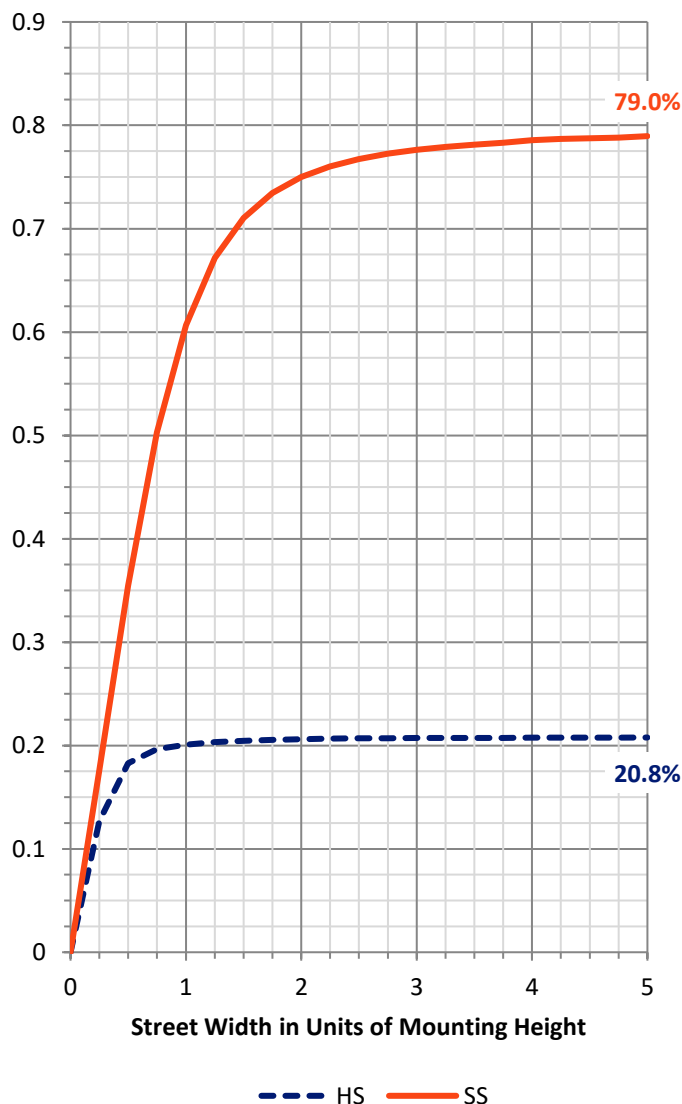
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5631.6	0.0	5631.6
	% Fixture	21.0	0.0	21.0
Street Side	Lumens	21148.4	0.0	21148.4
	% Fixture	79.0	0.0	79.0
Total	Lumens	26780.0	0.0	26780.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	462.2	1.7
10°-20°	1379.5	5.2
20°-30°	2338.6	8.7
30°-40°	3439.0	12.8
40°-50°	4579.6	17.1
50°-60°	5357.2	20.0
60°-70°	5388.1	20.1
70°-80°	3410.8	12.7
80°-90°	425.0	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°	26780.0	100.0
0°-180°	26780.0	100.0



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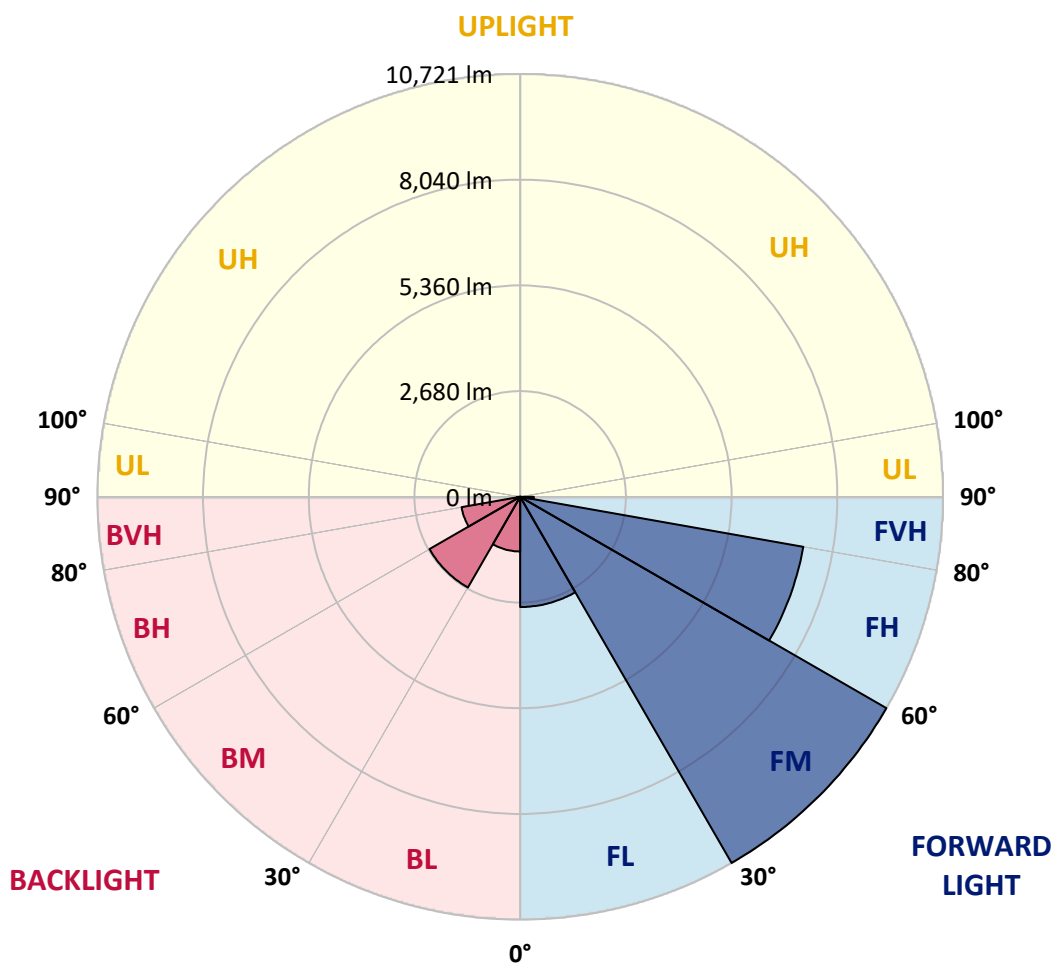
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2793.7	10.4			
FM (30°-60°)	10720.5	40.0			
FH (60°-80°)	7289.5	27.2			G3/7500
FVH (80°-90°)	344.6	1.3			G3/500
BL (0°-30°)	1386.5	5.2	B3/2500		
BM (30°-60°)	2655.4	9.9	B3/5000		
BH (60°-80°)	1509.3	5.6	B3/2500		G3/2500
BVH (80°-90°)	80.4	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°	4868.5	4868.5	4868.5	4868.5	4868.5	4868.5	4868.5	4868.5	4868.5	4868.5	4868.5
2.5°	5135.7	5180.7	5146.3	5133.1	5143.6	5090.7	5048.4	4987.6	4958.5	4937.3	4902.9
5°	5396.3	5470.3	5425.4	5397.6	5393.6	5297.1	5240.2	5156.9	5092.1	5035.2	4947.9
7.5°	5671.4	5715.0	5697.8	5666.1	5644.9	5527.2	5426.7	5309.0	5237.6	5162.2	5015.4
10°	5912.1	5965.0	5947.8	5890.9	5871.1	5750.7	5635.7	5475.6	5377.7	5283.8	5081.5
12.5°	6160.7	6220.3	6184.5	6127.7	6110.5	5988.8	5869.8	5675.3	5553.7	5447.8	5167.5
15°	6389.5	6443.8	6418.6	6353.8	6336.6	6233.5	6102.5	5921.3	5789.1	5648.9	5289.1
17.5°	6572.1	6626.3	6594.6	6564.1	6558.8	6457.0	6379.0	6193.8	6068.2	5877.7	5475.6
20°	6705.7	6761.2	6745.3	6759.9	6815.4	6740.0	6692.4	6536.4	6408.1	6201.7	5744.1
22.5°	6811.5	6882.9	6946.4	6975.5	7078.6	7073.3	7062.8	6970.2	6869.7	6655.4	6064.2
25°	6822.0	6904.0	7029.7	7165.9	7353.7	7443.7	7509.8	7495.3	7377.5	7165.9	6507.3
27.5°	6837.9	6922.6	7052.2	7286.3	7622.2	7832.5	7942.3	8009.8	7941.0	7799.5	7011.2
30°	6803.5	6890.8	7053.5	7352.4	7806.1	8196.2	8392.0	8642.0	8649.9	8530.9	7771.7
32.5°	6647.5	6762.5	6959.6	7360.3	7984.6	8575.8	8877.4	9357.5	9462.0	9373.4	8556.0
35°	6386.9	6491.4	6773.1	7290.2	8093.1	8891.9	9443.5	10192.1	10346.8	10341.5	9479.2
37.5°	6098.6	6204.4	6521.8	7124.9	8163.2	9173.7	9942.1	11020.0	11328.2	11263.4	10350.8
40°	5779.8	5890.9	6257.3	6917.3	8128.8	9424.9	10469.8	11822.8	12205.1	12213.0	11184.0
42.5°	5409.5	5500.8	5868.4	6630.3	8015.0	9610.1	10960.5	12668.0	13070.1	13047.6	11969.7
45°	5055.0	5150.3	5471.7	6185.9	7751.8	9713.3	11441.9	13523.7	13964.2	13892.7	12842.6
47.5°	4626.5	4762.7	5129.1	5812.9	7345.8	9705.3	11862.5	14399.3	14894.0	14835.8	13596.5
50°	3560.5	3641.2	4470.4	5428.0	6795.6	9520.2	12273.9	15259.0	15884.6	15770.9	14400.6
52.5°	3207.3	3280.1	3547.3	4966.4	6295.6	9119.4	12616.4	16243.0	16711.2	16622.6	15222.0
55°	3031.4	3071.1	3233.8	4096.1	5807.6	8468.7	12845.2	17117.3	17604.0	17408.2	15990.4
57.5°	2810.6	2859.5	3048.6	3498.3	5207.1	7470.1	12792.3	17905.6	18355.2	18055.0	16667.6
60°	2641.3	2678.3	2855.5	3149.1	4586.8	6435.8	12251.4	18679.3	18905.4	18609.2	17342.1
62.5°	2498.4	2519.6	2643.9	2923.0	4114.7	5680.6	11195.9	18782.4	19203.0	18988.8	17844.7
65°	2321.2	2326.5	2473.3	2691.5	3678.2	5227.0	10289.9	18253.4	19054.9	18983.5	18025.9
67.5°	2113.5	2124.1	2272.3	2438.9	3153.1	4744.2	8878.7	17969.0	18479.6	18434.6	17667.5
70°	1853.0	1874.1	2010.4	2137.3	2670.4	4164.9	7066.7	16844.8	17450.6	17384.4	16486.4
72.5°	1601.7	1589.8	1716.8	1842.4	2224.6	3477.2	5356.6	14909.8	16368.7	16305.2	14952.2
75°	1316.0	1308.1	1439.0	1558.0	1823.9	2809.2	3768.1	11026.6	14382.1	14577.9	12892.8
77.5°	810.8	817.4	892.8	972.1	1235.3	2099.0	2404.5	6134.3	9770.2	11586.1	10118.0
80°	587.2	587.2	642.8	690.4	817.4	1279.0	1197.0	2557.9	3571.1	5592.0	6310.2
82.5°	380.9	365.0	399.4	440.4	455.0	554.2	547.6	1282.9	1819.9	2190.2	2628.0
85°	198.4	219.6	132.3	186.5	197.1	183.8	189.1	601.8	808.1	1035.6	1140.1
87.5°	30.4	23.8	31.7	43.6	50.3	42.3	37.0	70.1	108.5	144.2	170.6
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°	4868.5	4868.5	4868.5	4868.5	4868.5	4868.5	4868.5	4868.5	4868.5	4868.5	4868.5
2.5°	4880.4	4873.8	4813.0	4724.4	4651.6	4590.8	4551.1	4524.7	4553.8	4500.9	4494.2
5°	4893.7	4848.7	4716.4	4589.5	4491.6	4360.7	4272.0	4212.5	4236.3	4190.0	4171.5
7.5°	4929.4	4847.4	4664.9	4462.5	4277.3	4137.1	4000.9	3870.0	3850.1	3821.0	3822.4
10°	4961.1	4843.4	4605.3	4340.8	4125.2	3877.9	3713.9	3579.0	3548.6	3514.2	3497.0
12.5°	5011.4	4852.7	4531.3	4211.2	3922.9	3637.2	3460.0	3301.2	3270.8	3203.4	3188.8
15°	5111.9	4885.7	4458.5	4051.2	3695.4	3407.1	3178.2	3039.4	2983.8	2908.4	2907.1
17.5°	5242.8	4982.3	4421.5	3900.4	3502.3	3179.6	2937.5	2797.3	2703.4	2658.5	2646.6
20°	5429.3	5107.9	4420.2	3764.2	3301.2	2936.2	2658.5	2499.7	2420.4	2383.4	2360.9
22.5°	5716.3	5293.1	4444.0	3668.9	3098.9	2700.8	2424.4	2206.1	2075.2	1973.3	1987.9
25°	6073.4	5570.9	4498.2	3581.6	2923.0	2475.9	2129.4	1826.5	1592.4	1490.6	1498.5
27.5°	6527.1	5902.8	4638.4	3493.0	2723.3	2233.9	1744.5	1359.6	1182.4	1063.4	1072.6
30°	7107.7	6315.5	4822.3	3424.2	2538.1	1895.3	1313.4	1002.5	846.5	748.6	739.3
32.5°	7802.1	6913.3	5023.3	3378.0	2335.7	1472.1	947.0	735.4	583.3	527.7	535.7
35°	8661.8	7585.2	5330.1	3310.5	1989.2	1047.5	675.9	497.3	419.3	408.7	410.0
37.5°	9446.1	8273.0	5634.3	3196.8	1569.9	744.6	458.9	378.3	361.1	357.1	362.4
40°	10214.5	8899.9	5909.4	3031.4	1079.3	510.5	337.3	341.2	326.7	316.1	310.8
42.5°	10934.1	9504.3	6125.0	2727.2	738.0	337.3	298.9	310.8	308.2	287.0	277.7
45°	11710.4	10143.1	6244.1	2301.3	464.2	287.0	268.5	289.7	302.9	279.1	268.5
47.5°	12373.1	10766.1	6238.8	1763.0	314.8	271.1	252.6	271.1	287.0	269.8	260.6
50°	13137.5	11281.9	6069.5	1118.9	279.1	251.3	242.0	248.7	269.8	257.9	248.7
52.5°	13986.6	11988.2	5812.9	624.3	264.5	238.1	224.8	232.8	251.3	236.7	242.0
55°	14690.3	12574.1	5209.8	425.9	257.9	222.2	214.3	219.6	227.5	212.9	220.9
57.5°	15318.5	13058.2	4600.1	349.2	248.7	211.6	210.3	199.7	198.4	189.1	181.2
60°	15954.7	13440.4	3777.4	316.1	239.4	212.9	190.5	175.9	164.0	154.7	150.8
62.5°	16442.7	13704.9	2987.8	285.7	226.2	199.7	174.6	150.8	130.9	119.0	119.0
65°	16585.6	13587.2	2103.0	259.2	211.6	187.8	156.1	123.0	99.2	91.3	87.3
67.5°	16128.0	12911.4	1464.1	239.4	197.1	174.6	137.6	100.5	79.4	68.8	66.1
70°	14962.7	11780.5	863.7	211.6	178.6	152.1	125.6	82.0	64.8	54.2	51.6
72.5°	13240.7	10084.9	538.3	179.9	153.4	124.3	93.9	67.5	51.6	42.3	41.0
75°	10936.7	7861.6	351.8	138.9	121.7	97.9	71.4	54.2	45.0	35.7	33.1
77.5°	8770.3	5561.6	314.8	105.8	89.9	70.1	54.2	45.0	37.0	31.7	31.7
80°	5047.1	3174.3	257.9	72.7	55.5	52.9	42.3	37.0	34.4	30.4	29.1
82.5°	2479.9	1525.0	166.6	45.0	31.7	34.4	35.7	33.1	29.1	26.5	26.5
85°	854.4	507.9	67.5	29.1	21.2	21.2	22.5	23.8	22.5	21.2	21.2
87.5°	132.3	96.6	18.5	17.2	13.2	11.9	13.2	14.5	14.5	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)