

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: P510076

Luminaire Tested: **VERD-M-CA4-200-730-U-T2-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510076
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-CA4-200-730-U-T2-HSS
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 3000K, 910mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25844 lumens
Efficiency: N/A
Efficacy: 128.1 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

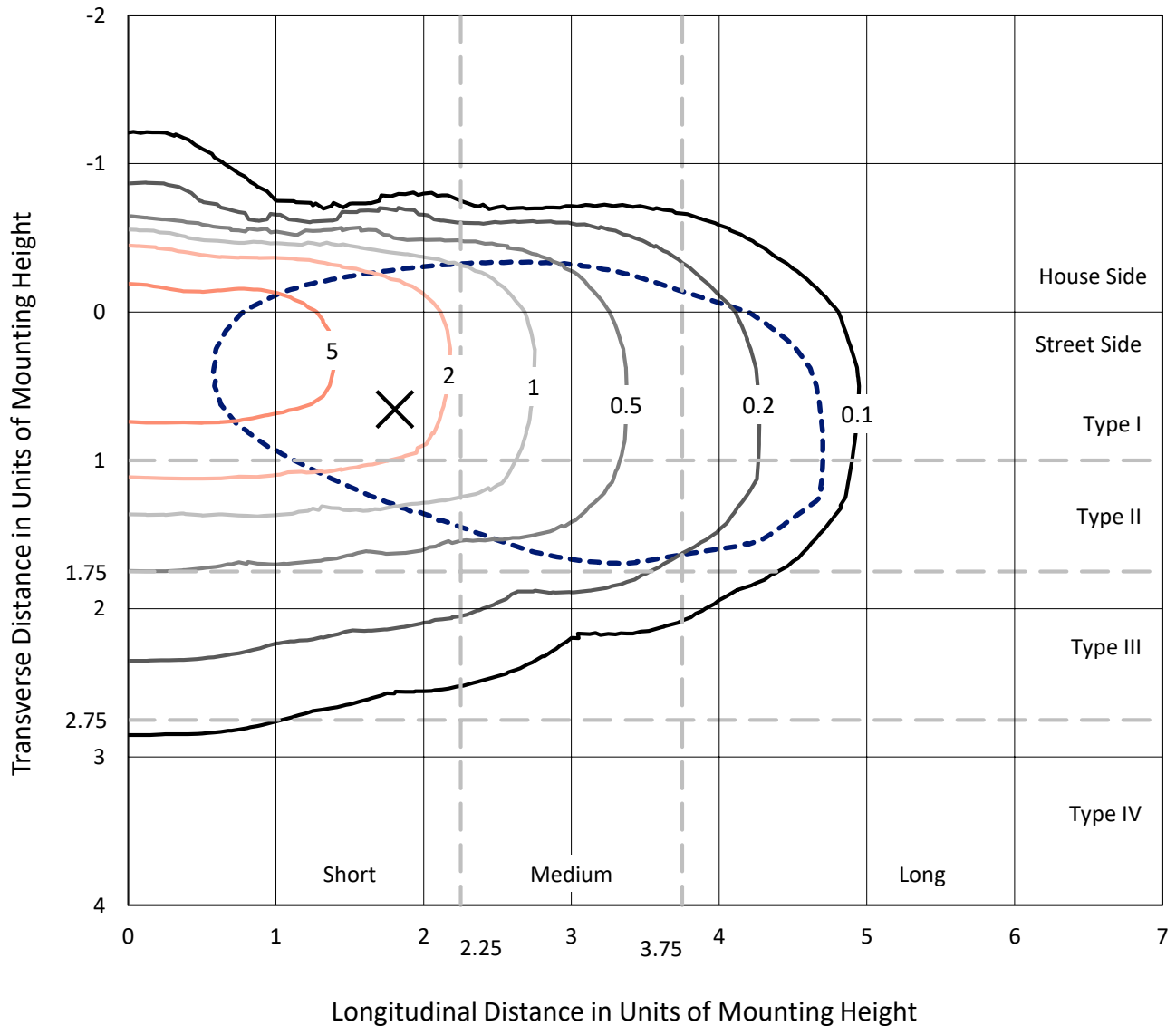
Input Watts (W): 201.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

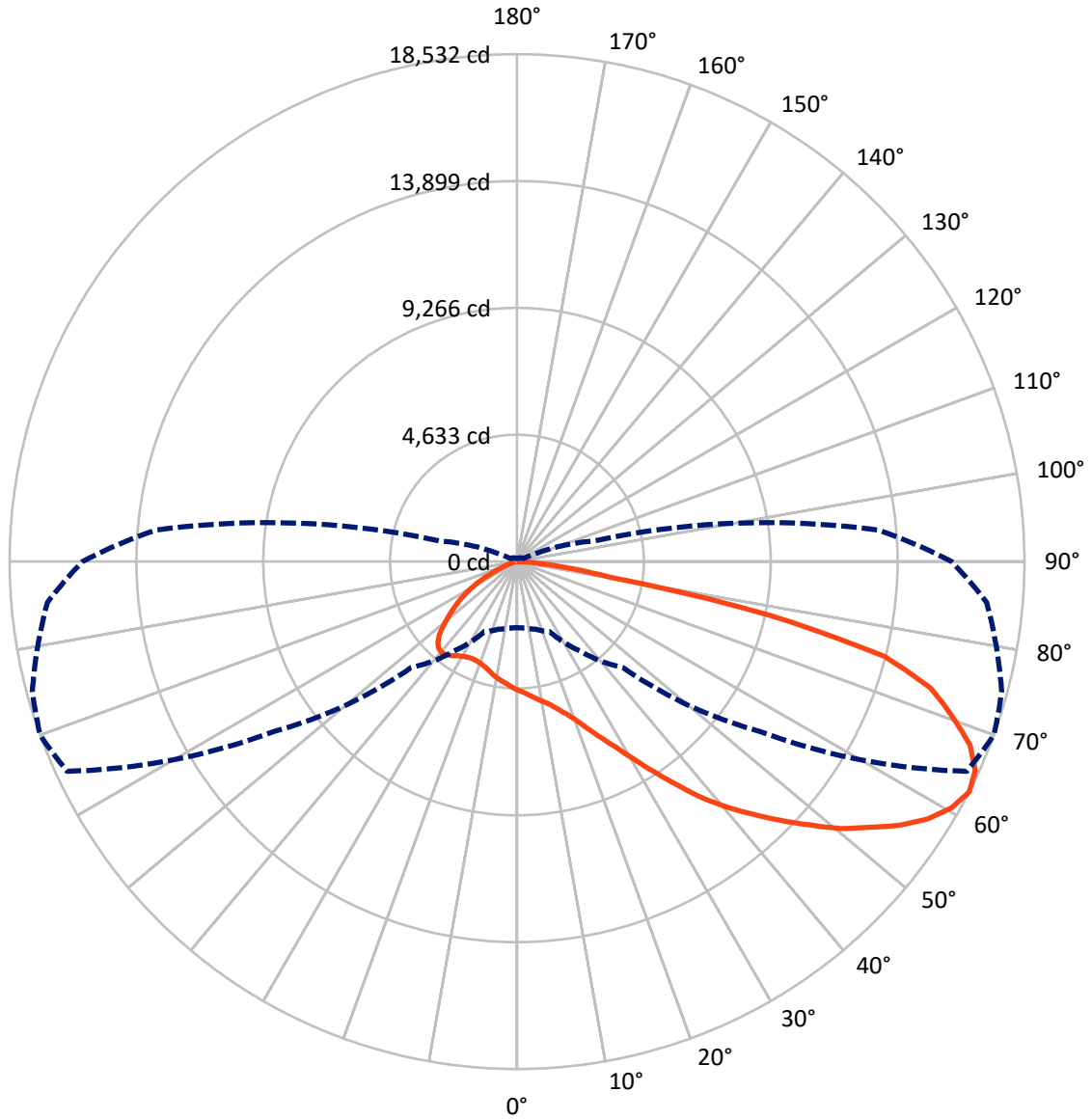
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 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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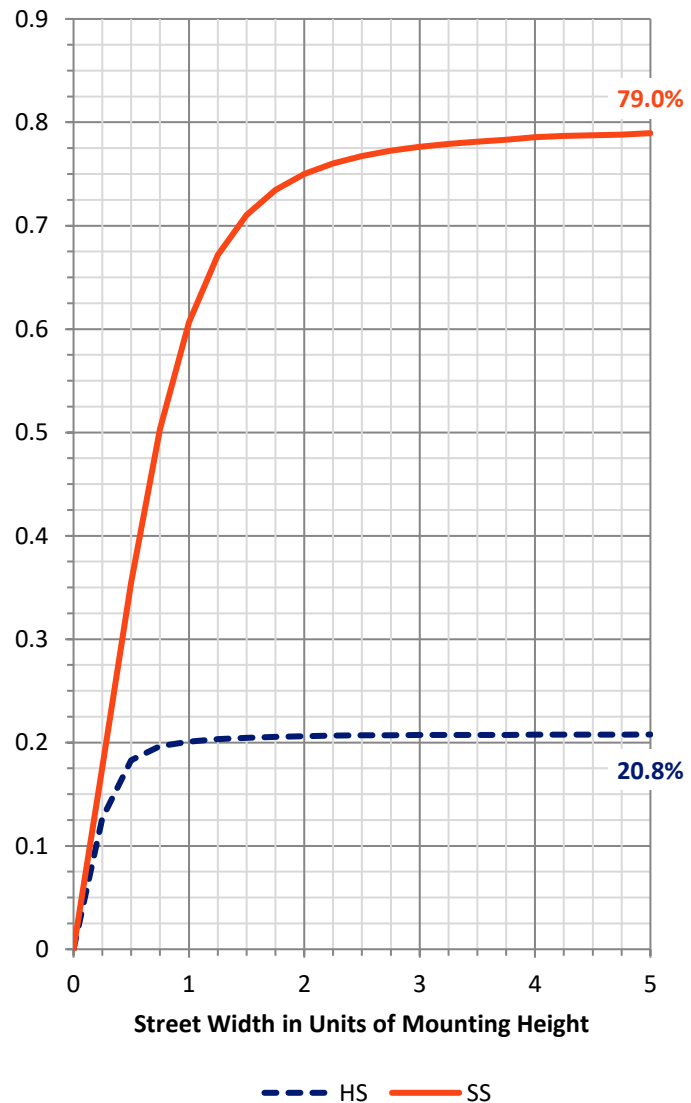
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5434.7	0.0	5434.7
	% Fixture	21.0	0.0	21.0
Street Side	Lumens	20409.3	0.0	20409.3
	% Fixture	79.0	0.0	79.0
Total	Lumens	25844.0	0.0	25844.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	446.1	1.7
10°-20°	1331.2	5.2
20°-30°	2256.8	8.7
30°-40°	3318.8	12.8
40°-50°	4419.6	17.1
50°-60°	5170.0	20.0
60°-70°	5199.8	20.1
70°-80°	3291.6	12.7
80°-90°	410.1	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°	25844.0	100.0
0°-180°	25844.0	100.0



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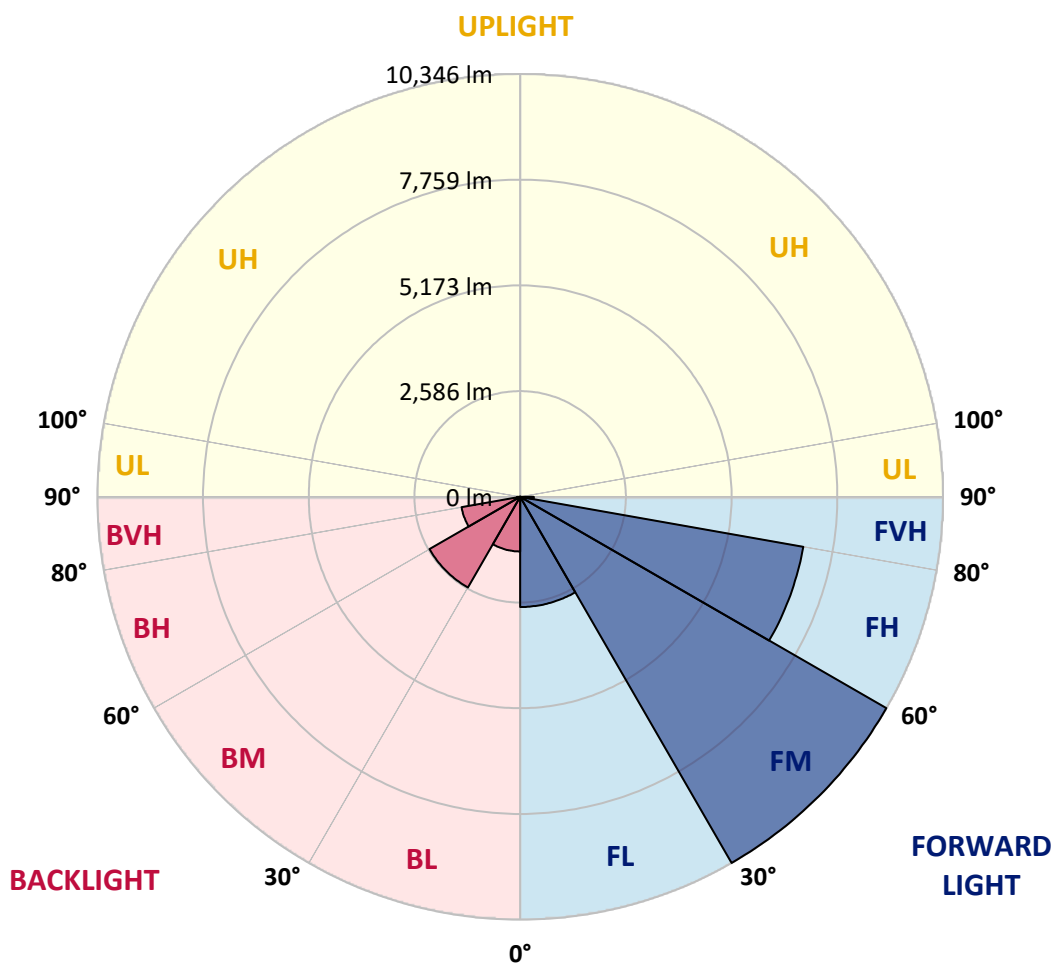
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2696.1	10.4			
FM (30°-60°)	10345.8	40.0			
FH (60°-80°)	7034.7	27.2			G3/7500
FVH (80°-90°)	332.6	1.3			G3/500
BL (0°-30°)	1338.0	5.2	B3/2500		
BM (30°-60°)	2562.5	9.9	B3/5000		
BH (60°-80°)	1456.6	5.6	B3/2500		G3/2500
BVH (80°-90°)	77.6	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°	4698.4	4698.4	4698.4	4698.4	4698.4	4698.4	4698.4	4698.4	4698.4	4698.4	4698.4
2.5°	4956.2	4999.6	4966.4	4953.7	4963.9	4912.8	4872.0	4813.3	4785.2	4764.8	4731.6
5°	5207.7	5279.1	5235.7	5208.9	5205.1	5111.9	5057.0	4976.6	4914.1	4859.2	4775.0
7.5°	5473.1	5515.3	5498.7	5468.0	5447.6	5334.0	5237.0	5123.4	5054.5	4981.7	4840.1
10°	5705.4	5756.5	5739.9	5685.0	5665.9	5549.7	5438.7	5284.2	5189.8	5099.2	4903.9
12.5°	5945.4	6002.8	5968.4	5913.5	5896.9	5779.5	5664.6	5477.0	5359.5	5257.4	4986.8
15°	6166.2	6218.6	6194.3	6131.8	6115.2	6015.6	5889.2	5714.4	5586.7	5451.4	5104.3
17.5°	6342.4	6394.7	6364.1	6334.7	6329.6	6231.3	6156.0	5977.3	5856.1	5672.3	5284.2
20°	6471.3	6524.9	6509.6	6523.6	6577.2	6504.5	6458.5	6307.9	6184.1	5985.0	5543.3
22.5°	6573.4	6642.3	6703.6	6731.7	6831.2	6826.1	6815.9	6726.6	6629.6	6422.8	5852.2
25°	6583.6	6662.7	6784.0	6915.5	7096.7	7183.5	7247.3	7233.3	7119.7	6915.5	6279.8
27.5°	6598.9	6680.6	6805.7	7031.6	7355.8	7558.8	7664.7	7729.8	7663.4	7526.9	6766.1
30°	6565.7	6650.0	6807.0	7095.4	7533.2	7909.8	8098.7	8339.9	8347.6	8232.7	7500.0
32.5°	6415.1	6526.2	6716.3	7103.1	7705.5	8276.1	8567.1	9030.4	9131.3	9045.8	8256.9
35°	6163.7	6264.5	6536.4	7035.4	7810.2	8581.1	9113.4	9835.8	9985.2	9980.1	9147.9
37.5°	5885.4	5987.5	6293.9	6875.9	7877.9	8853.0	9594.6	10634.9	10932.3	10869.7	9989.0
40°	5577.8	5685.0	6038.6	6675.5	7844.7	9095.5	10103.9	11409.6	11778.5	11786.2	10793.1
42.5°	5220.4	5308.5	5663.3	6398.5	7734.9	9274.2	10577.4	12225.2	12613.3	12591.6	11551.3
45°	4878.4	4970.3	5280.4	5969.7	7480.9	9373.8	11042.0	13051.1	13476.1	13407.2	12393.7
47.5°	4464.8	4596.3	4949.8	5609.7	7089.1	9366.1	11447.9	13896.0	14373.4	14317.2	13121.3
50°	3436.0	3513.9	4314.2	5238.3	6558.1	9187.4	11844.9	14725.7	15329.4	15219.6	13897.3
52.5°	3095.2	3165.4	3423.3	4792.8	6075.6	8800.7	12175.5	15675.3	16127.1	16041.6	14689.9
55°	2925.5	2963.8	3120.8	3953.0	5604.6	8172.7	12396.3	16519.0	16988.7	16799.8	15431.5
57.5°	2712.3	2759.5	2942.1	3376.0	5025.1	7209.0	12345.2	17279.7	17713.7	17424.0	16085.0
60°	2548.9	2584.7	2755.7	3039.1	4426.5	6210.9	11823.2	18026.4	18244.7	17958.8	16736.0
62.5°	2411.1	2431.5	2551.5	2820.8	3970.8	5482.1	10804.6	18126.0	18531.9	18325.1	17221.0
65°	2240.1	2245.2	2386.8	2597.4	3549.6	5044.3	9930.3	17615.4	18388.9	18320.0	17395.9
67.5°	2039.7	2049.9	2192.8	2353.7	3042.9	4578.4	8568.4	17341.0	17833.7	17790.3	17050.0
70°	1788.2	1808.6	1940.1	2062.6	2577.0	4019.3	6819.7	16256.1	16840.6	16776.8	15910.2
72.5°	1545.7	1534.2	1656.8	1778.0	2146.9	3355.6	5169.4	14388.7	15796.6	15735.3	14429.6
75°	1270.0	1262.3	1388.7	1503.6	1760.1	2711.0	3636.4	10641.2	13879.4	14068.3	12442.2
77.5°	782.4	788.8	861.6	938.1	1192.1	2025.6	2320.5	5919.9	9428.7	11181.1	9764.4
80°	566.7	566.7	620.3	666.3	788.8	1234.3	1155.1	2468.5	3446.2	5396.6	6089.6
82.5°	367.6	352.3	385.5	425.0	439.1	534.8	528.4	1238.1	1756.3	2113.7	2536.2
85°	191.5	211.9	127.6	180.0	190.2	177.4	182.5	580.8	779.9	999.4	1100.2
87.5°	29.4	23.0	30.6	42.1	48.5	40.8	35.7	67.6	104.7	139.1	164.7
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°	4698.4	4698.4	4698.4	4698.4	4698.4	4698.4	4698.4	4698.4	4698.4	4698.4	4698.4
2.5°	4709.9	4703.5	4644.8	4559.3	4489.1	4430.3	4392.0	4366.5	4394.6	4343.5	4337.2
5°	4722.6	4679.2	4551.6	4429.1	4334.6	4208.2	4122.7	4065.3	4088.3	4043.6	4025.7
7.5°	4757.1	4678.0	4501.8	4306.5	4127.8	3992.5	3861.1	3734.7	3715.6	3687.5	3688.8
10°	4787.7	4674.1	4444.4	4189.1	3981.1	3742.4	3584.1	3453.9	3424.5	3391.4	3374.8
12.5°	4836.2	4683.1	4372.9	4064.0	3785.8	3510.1	3339.0	3185.9	3156.5	3091.4	3077.4
15°	4933.2	4715.0	4302.7	3909.6	3566.2	3288.0	3067.2	2933.1	2879.5	2806.8	2805.5
17.5°	5059.6	4808.1	4267.0	3764.1	3379.9	3068.4	2834.9	2699.6	2608.9	2565.5	2554.1
20°	5239.6	4929.4	4265.7	3632.6	3185.9	2833.6	2565.5	2412.4	2335.8	2300.0	2278.4
22.5°	5516.5	5108.1	4288.7	3540.7	2990.6	2606.4	2339.6	2129.0	2002.7	1904.4	1918.4
25°	5861.2	5376.1	4341.0	3456.5	2820.8	2389.4	2055.0	1762.7	1536.8	1438.5	1446.1
27.5°	6299.0	5696.5	4476.3	3370.9	2628.1	2155.8	1683.6	1312.1	1141.1	1026.2	1035.1
30°	6859.3	6094.7	4653.7	3304.6	2449.4	1829.1	1267.5	967.5	816.9	722.4	713.5
32.5°	7529.4	6671.7	4847.7	3259.9	2254.1	1420.6	913.9	709.7	562.9	509.3	516.9
35°	8359.1	7320.1	5143.8	3194.8	1919.7	1010.9	652.2	479.9	404.6	394.4	395.7
37.5°	9116.0	7983.8	5437.4	3085.0	1515.1	718.6	442.9	365.0	348.5	344.6	349.7
40°	9857.5	8588.8	5702.9	2925.5	1041.5	492.7	325.5	329.3	315.3	305.1	300.0
42.5°	10551.9	9172.1	5910.9	2631.9	712.2	325.5	288.5	300.0	297.4	277.0	268.0
45°	11301.1	9788.6	6025.8	2220.9	448.0	277.0	259.1	279.5	292.3	269.3	259.1
47.5°	11940.6	10389.8	6020.7	1701.4	303.8	261.7	243.8	261.7	277.0	260.4	251.4
50°	12678.4	10887.6	5857.3	1079.8	269.3	242.5	233.6	240.0	260.4	248.9	240.0
52.5°	13497.8	11569.2	5609.7	602.5	255.3	229.7	217.0	224.6	242.5	228.5	233.6
55°	14176.8	12134.6	5027.7	411.0	248.9	214.4	206.8	211.9	219.5	205.5	213.2
57.5°	14783.1	12601.8	4439.3	337.0	240.0	204.2	202.9	192.7	191.5	182.5	174.9
60°	15397.1	12970.6	3645.4	305.1	231.0	205.5	183.8	169.8	158.3	149.3	145.5
62.5°	15868.0	13225.9	2883.4	275.7	218.3	192.7	168.5	145.5	126.4	114.9	114.9
65°	16005.9	13112.3	2029.5	250.2	204.2	181.2	150.6	118.7	95.7	88.1	84.2
67.5°	15564.3	12460.1	1413.0	231.0	190.2	168.5	132.7	97.0	76.6	66.4	63.8
70°	14439.8	11368.8	833.5	204.2	172.3	146.8	121.3	79.1	62.5	52.3	49.8
72.5°	12777.9	9732.5	519.5	173.6	148.1	120.0	90.6	65.1	49.8	40.8	39.6
75°	10554.4	7586.8	339.5	134.0	117.4	94.5	68.9	52.3	43.4	34.5	31.9
77.5°	8463.7	5367.2	303.8	102.1	86.8	67.6	52.3	43.4	35.7	30.6	30.6
80°	4870.7	3063.3	248.9	70.2	53.6	51.1	40.8	35.7	33.2	29.4	28.1
82.5°	2393.2	1471.7	160.8	43.4	30.6	33.2	34.5	31.9	28.1	25.5	25.5
85°	824.5	490.1	65.1	28.1	20.4	20.4	21.7	23.0	21.7	20.4	20.4
87.5°	127.6	93.2	17.9	16.6	12.8	11.5	12.8	14.0	14.0	12.8	12.8
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)