

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: P510332

Luminaire Tested: **VERD-M-CA4-250-750-U-T2-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510332
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-CA4-250-750-U-T2-HSS
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 5000K, 1130mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32205 lumens
Efficiency: N/A
Efficacy: 127.9 lumens/watt
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

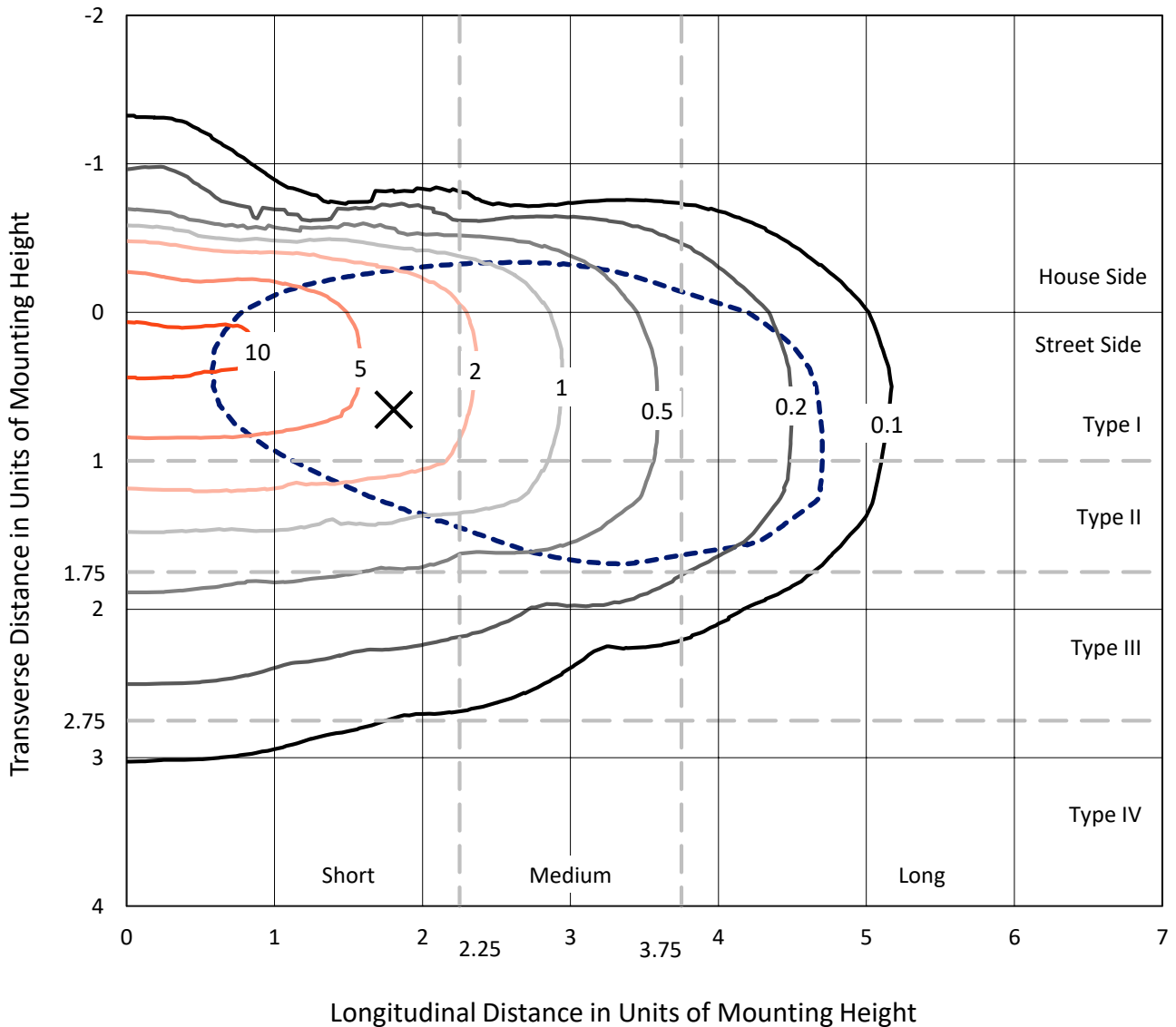
Input Watts (W): 251.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

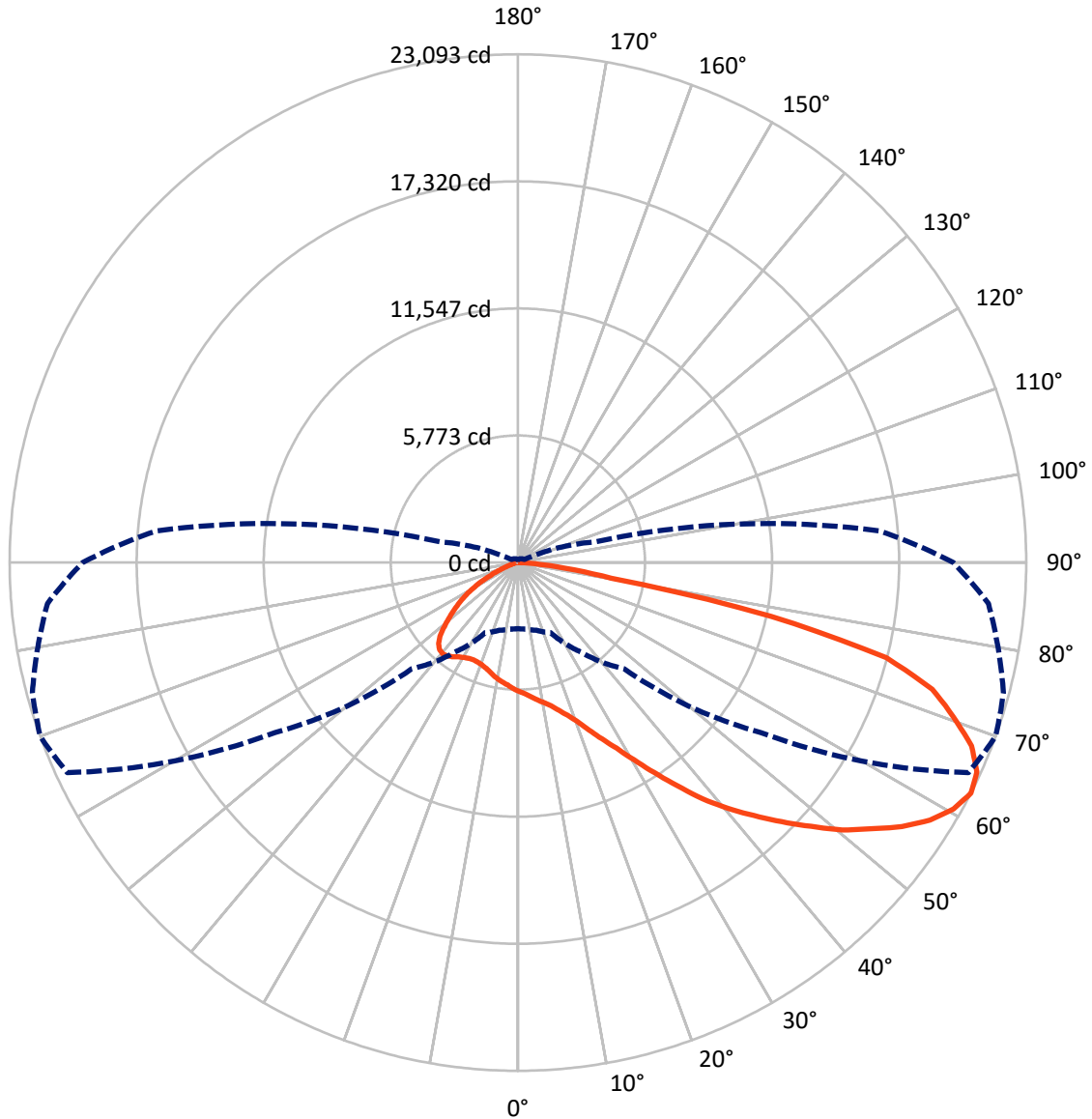
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 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	6772.4	0.0	6772.4
	% Fixture	21.0	0.0	21.0
Street Side	Lumens	25432.6	0.0	25432.6
	% Fixture	79.0	0.0	79.0
Total	Lumens	32205.0	0.0	32205.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	555.9	1.7
10°-20°	1658.9	5.2
20°-30°	2812.3	8.7
30°-40°	4135.7	12.8
40°-50°	5507.4	17.1
50°-60°	6442.5	20.0
60°-70°	6479.6	20.1
70°-80°	4101.7	12.7
80°-90°	511.1	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°	32205.0	100.0
0°-180°	32205.0	100.0



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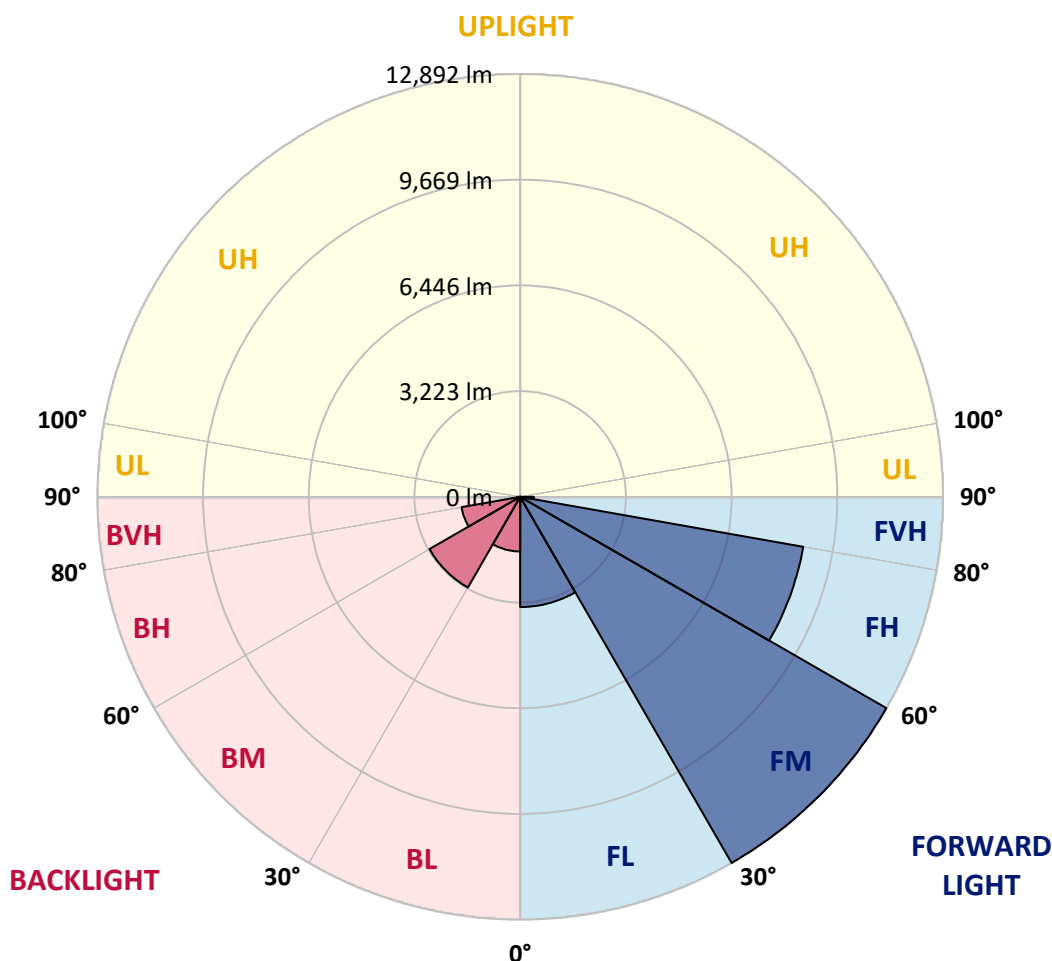
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3359.7	10.4			
FM (30°-60°)	12892.3	40.0			
FH (60°-80°)	8766.2	27.2			G4/12000
FVH (80°-90°)	414.5	1.3			G3/500
BL (0°-30°)	1667.4	5.2	B3/2500		
BM (30°-60°)	3193.3	9.9	B3/5000		
BH (60°-80°)	1815.1	5.6	B3/2500		G3/2500
BVH (80°-90°)	96.6	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-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	5854.8	5854.8	5854.8	5854.8	5854.8	5854.8	5854.8	5854.8	5854.8	5854.8	5854.8
2.5°	6176.1	6230.2	6188.8	6172.9	6185.6	6122.0	6071.1	5997.9	5963.0	5937.5	5896.1
5°	6489.4	6578.5	6524.4	6491.0	6486.2	6370.1	6301.7	6201.5	6123.6	6055.2	5950.2
7.5°	6820.3	6872.7	6852.1	6813.9	6788.4	6646.9	6526.0	6384.4	6298.6	6207.9	6031.3
10°	7109.7	7173.4	7152.7	7084.3	7060.4	6915.7	6777.3	6584.9	6467.2	6354.2	6110.9
12.5°	7408.8	7480.3	7437.4	7369.0	7348.3	7202.0	7058.8	6825.0	6678.7	6551.5	6214.3
15°	7683.9	7749.1	7718.9	7641.0	7620.3	7496.2	7338.8	7120.9	6961.8	6793.2	6360.6
17.5°	7903.4	7968.6	7930.5	7893.9	7887.5	7765.0	7671.2	7448.5	7297.4	7068.4	6584.9
20°	8064.1	8130.9	8111.8	8129.3	8196.1	8105.4	8048.2	7860.5	7706.2	7458.1	6907.7
22.5°	8191.3	8277.2	8353.5	8388.5	8512.6	8506.2	8493.5	8382.2	8261.3	8003.6	7292.6
25°	8204.0	8302.6	8453.7	8617.6	8843.4	8951.6	9031.1	9013.6	8872.1	8617.6	7825.5
27.5°	8223.1	8324.9	8480.8	8762.3	9166.3	9419.2	9551.2	9632.3	9549.6	9379.4	8431.5
30°	8181.8	8286.7	8482.4	8841.8	9387.4	9856.6	10092.0	10392.6	10402.2	10259.0	9346.0
32.5°	7994.1	8132.5	8369.4	8851.4	9602.1	10313.1	10675.7	11253.1	11378.8	11272.2	10289.2
35°	7680.7	7806.4	8145.2	8767.1	9732.5	10693.2	11356.5	12256.7	12442.8	12436.5	11399.4
37.5°	7334.0	7461.2	7843.0	8568.3	9816.8	11032.0	11956.1	13252.4	13623.0	13545.1	12447.6
40°	6950.7	7084.3	7524.9	8318.5	9775.5	11334.2	12590.8	14217.9	14677.5	14687.1	13449.6
42.5°	6505.3	6615.1	7057.2	7973.4	9638.7	11556.9	13180.8	15234.2	15717.8	15690.7	14394.4
45°	6079.1	6193.6	6580.1	7439.0	9322.2	11681.0	13759.8	16263.3	16793.0	16707.1	15444.2
47.5°	5563.7	5727.6	6168.1	6990.4	8833.9	11671.4	14265.6	17316.3	17911.1	17841.1	16350.8
50°	4281.7	4378.8	5376.0	6527.6	8172.2	11448.7	14760.3	18350.1	19102.4	18965.7	17317.9
52.5°	3857.1	3944.6	4265.8	5972.5	7571.0	10966.8	15172.2	19533.5	20096.5	19990.0	18305.6
55°	3645.5	3693.2	3888.9	4925.9	6984.1	10184.3	15447.4	20584.8	21170.2	20934.8	19229.7
57.5°	3379.9	3438.8	3666.2	4207.0	6262.0	8983.4	15383.7	21532.8	22073.6	21712.5	20044.0
60°	3176.3	3220.9	3434.0	3787.1	5516.0	7739.6	14733.2	22463.3	22735.2	22379.0	20855.2
62.5°	3004.5	3030.0	3179.5	3515.1	4948.2	6831.4	13464.0	22587.3	23093.1	22835.5	21459.6
65°	2791.4	2797.8	2974.3	3236.8	4423.3	6285.8	12374.4	21951.1	22915.0	22829.1	21677.5
67.5°	2541.7	2554.4	2732.6	2933.0	3791.9	5705.3	10677.3	21609.1	22223.1	22169.0	21246.5
70°	2228.4	2253.8	2417.6	2570.3	3211.3	5008.6	8498.3	20257.2	20985.6	20906.1	19826.1
72.5°	1926.1	1911.8	2064.5	2215.6	2675.3	4181.5	6441.7	17930.2	19684.6	19608.2	17981.1
75°	1582.6	1573.0	1730.5	1873.7	2193.4	3378.3	4531.5	13260.4	17295.6	17531.0	15504.6
77.5°	975.0	983.0	1073.6	1169.1	1485.6	2524.2	2891.6	7376.9	11749.4	13933.2	12167.7
80°	706.2	706.2	773.0	830.3	983.0	1538.1	1439.4	3076.1	4294.5	6724.8	7588.5
82.5°	458.1	439.0	480.3	529.7	547.1	666.4	658.5	1542.8	2188.6	2633.9	3160.4
85°	238.6	264.0	159.1	224.3	237.0	221.1	227.4	723.7	971.8	1245.4	1371.0
87.5°	36.6	28.6	38.2	52.5	60.4	50.9	44.5	84.3	130.4	173.4	205.2
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°	5854.8	5854.8	5854.8	5854.8	5854.8	5854.8	5854.8	5854.8	5854.8	5854.8	5854.8
2.5°	5869.1	5861.2	5788.0	5681.4	5593.9	5520.8	5473.1	5441.3	5476.2	5412.6	5404.7
5°	5885.0	5830.9	5671.9	5519.2	5401.5	5244.0	5137.5	5065.9	5094.5	5038.8	5016.6
7.5°	5928.0	5829.3	5609.9	5366.5	5143.8	4975.2	4811.4	4653.9	4630.1	4595.1	4596.7
10°	5966.1	5824.6	5538.3	5220.2	4960.9	4663.5	4466.2	4304.0	4267.4	4226.1	4205.4
12.5°	6026.6	5835.7	5449.2	5064.3	4717.6	4374.0	4160.9	3970.0	3933.4	3852.3	3834.8
15°	6147.5	5875.5	5361.7	4871.8	4444.0	4097.2	3822.1	3655.1	3588.3	3497.6	3496.0
17.5°	6304.9	5991.6	5317.2	4690.5	4211.8	3823.7	3532.6	3364.0	3251.1	3197.0	3182.7
20°	6529.2	6142.7	5315.6	4526.7	3970.0	3531.0	3197.0	3006.1	2910.7	2866.2	2839.1
22.5°	6874.3	6365.4	5344.2	4412.2	3726.6	3247.9	2915.5	2653.0	2495.6	2373.1	2390.6
25°	7303.8	6699.4	5409.4	4307.2	3515.1	2977.5	2560.8	2196.5	1915.0	1792.5	1802.1
27.5°	7849.3	7098.6	5578.0	4200.6	3274.9	2686.4	2097.9	1635.1	1421.9	1278.8	1289.9
30°	8547.6	7594.9	5799.1	4117.9	3052.3	2279.3	1579.4	1205.6	1017.9	900.2	889.1
32.5°	9382.6	8313.8	6040.9	4062.3	2808.9	1770.3	1138.8	884.3	701.4	634.6	644.2
35°	10416.5	9121.8	6409.9	3981.1	2392.2	1259.7	812.8	598.0	504.2	491.5	493.1
37.5°	11359.7	9948.9	6775.7	3844.3	1888.0	895.5	551.9	454.9	434.2	429.4	435.8
40°	12283.8	10702.8	7106.6	3645.5	1297.9	614.0	405.6	410.4	392.9	380.1	373.8
42.5°	13149.0	11429.7	7365.8	3279.7	887.5	405.6	359.5	373.8	370.6	345.1	334.0
45°	14082.7	12197.9	7509.0	2767.5	558.3	345.1	322.9	348.3	364.2	335.6	322.9
47.5°	14879.5	12947.0	7502.6	2120.2	378.5	326.1	303.8	326.1	345.1	324.5	313.3
50°	15798.9	13567.3	7299.0	1345.6	335.6	302.2	291.1	299.0	324.5	310.2	299.0
52.5°	16820.0	14416.7	6990.4	750.7	318.1	286.3	270.4	279.9	302.2	284.7	291.1
55°	17666.2	15121.3	6265.2	512.2	310.2	267.2	257.7	264.0	273.6	256.1	265.6
57.5°	18421.7	15703.4	5531.9	419.9	299.0	254.5	252.9	240.2	238.6	227.4	217.9
60°	19186.7	16163.1	4542.6	380.1	287.9	256.1	229.0	211.5	197.2	186.1	181.3
62.5°	19773.7	16481.2	3593.0	343.6	272.0	240.2	210.0	181.3	157.5	143.1	143.1
65°	19945.4	16339.7	2529.0	311.7	254.5	225.9	187.7	147.9	119.3	109.7	105.0
67.5°	19395.1	15526.9	1760.7	287.9	237.0	210.0	165.4	120.9	95.4	82.7	79.5
70°	17993.8	14167.0	1038.6	254.5	214.7	182.9	151.1	98.6	77.9	65.2	62.0
72.5°	15922.9	12127.9	647.4	216.3	184.5	149.5	112.9	81.1	62.0	50.9	49.3
75°	13152.2	9454.2	423.1	167.0	146.3	117.7	85.9	65.2	54.1	42.9	39.8
77.5°	10546.9	6688.2	378.5	127.2	108.2	84.3	65.2	54.1	44.5	38.2	38.2
80°	6069.5	3817.3	310.2	87.5	66.8	63.6	50.9	44.5	41.4	36.6	35.0
82.5°	2982.3	1833.9	200.4	54.1	38.2	41.4	42.9	39.8	35.0	31.8	31.8
85°	1027.5	610.8	81.1	35.0	25.4	25.4	27.0	28.6	27.0	25.4	25.4
87.5°	159.1	116.1	22.3	20.7	15.9	14.3	15.9	17.5	17.5	15.9	15.9
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)