

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: P510100

Luminaire Tested: **VERD-M-CA4-200-760-U-T2-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510100
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-CA4-200-760-U-T2-HSS
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 5700K, 910mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26235 lumens
Efficiency: N/A
Efficacy: 130.0 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

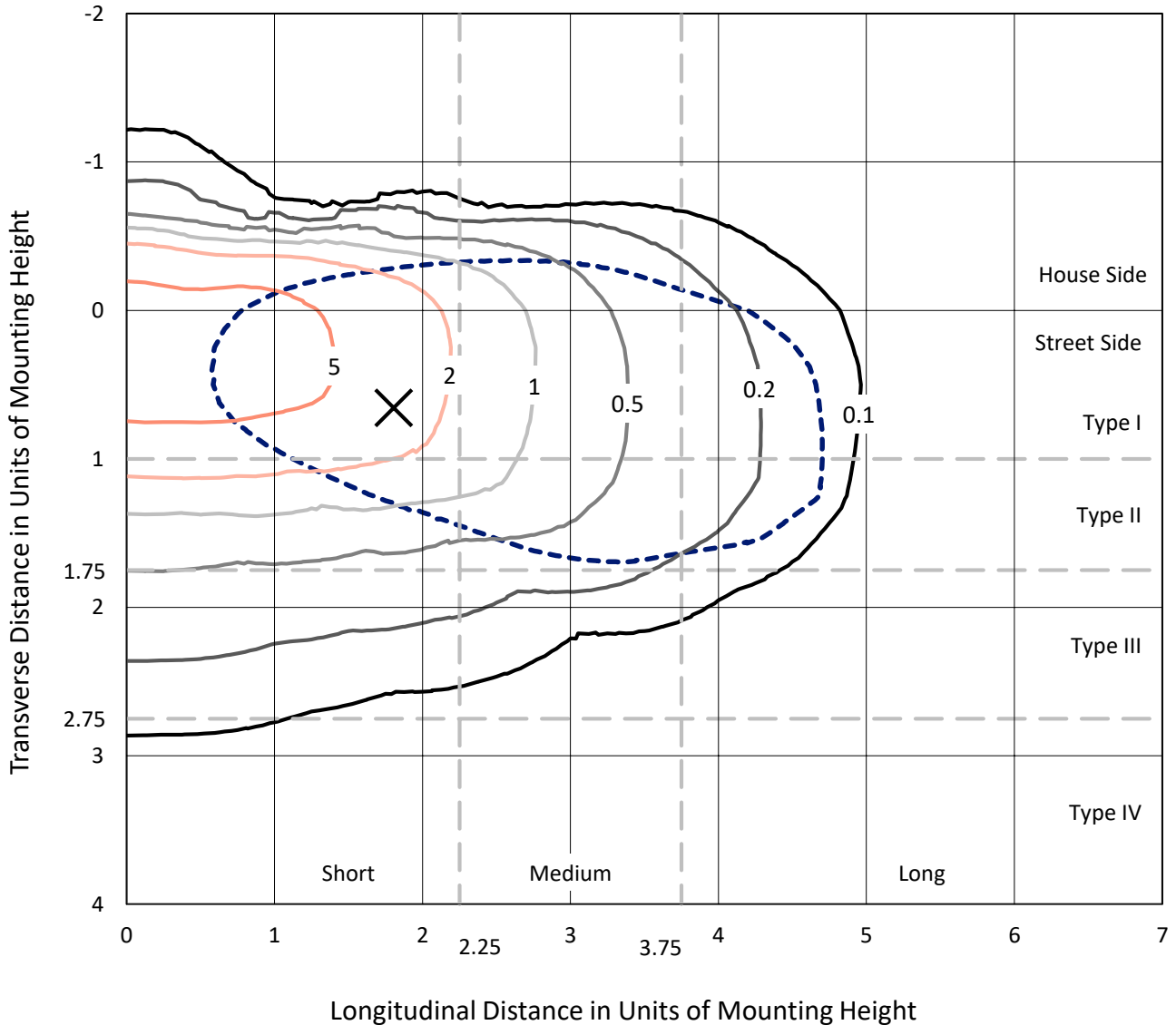
Input Watts (W): 201.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

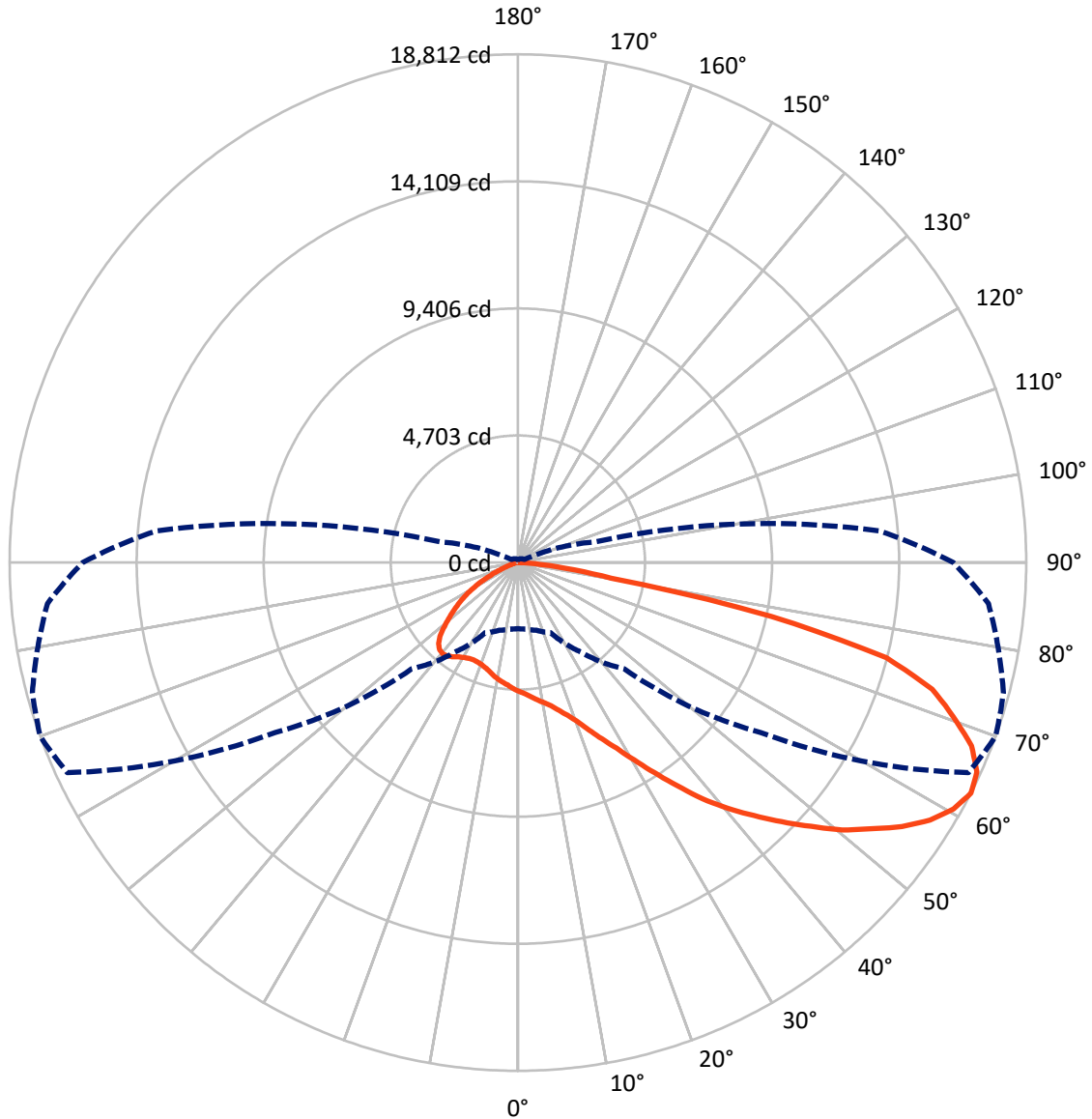
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	5517.0	0.0	5517.0
	% Fixture	21.0	0.0	21.0
Street Side	Lumens	20718.1	0.0	20718.1
	% Fixture	79.0	0.0	79.0
Total	Lumens	26235.0	0.0	26235.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	452.8	1.7
10°-20°	1351.4	5.2
20°-30°	2291.0	8.7
30°-40°	3369.0	12.8
40°-50°	4486.4	17.1
50°-60°	5248.2	20.0
60°-70°	5278.4	20.1
70°-80°	3341.4	12.7
80°-90°	416.4	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°	26235.0	100.0
0°-180°	26235.0	100.0

Coefficient of Utilization



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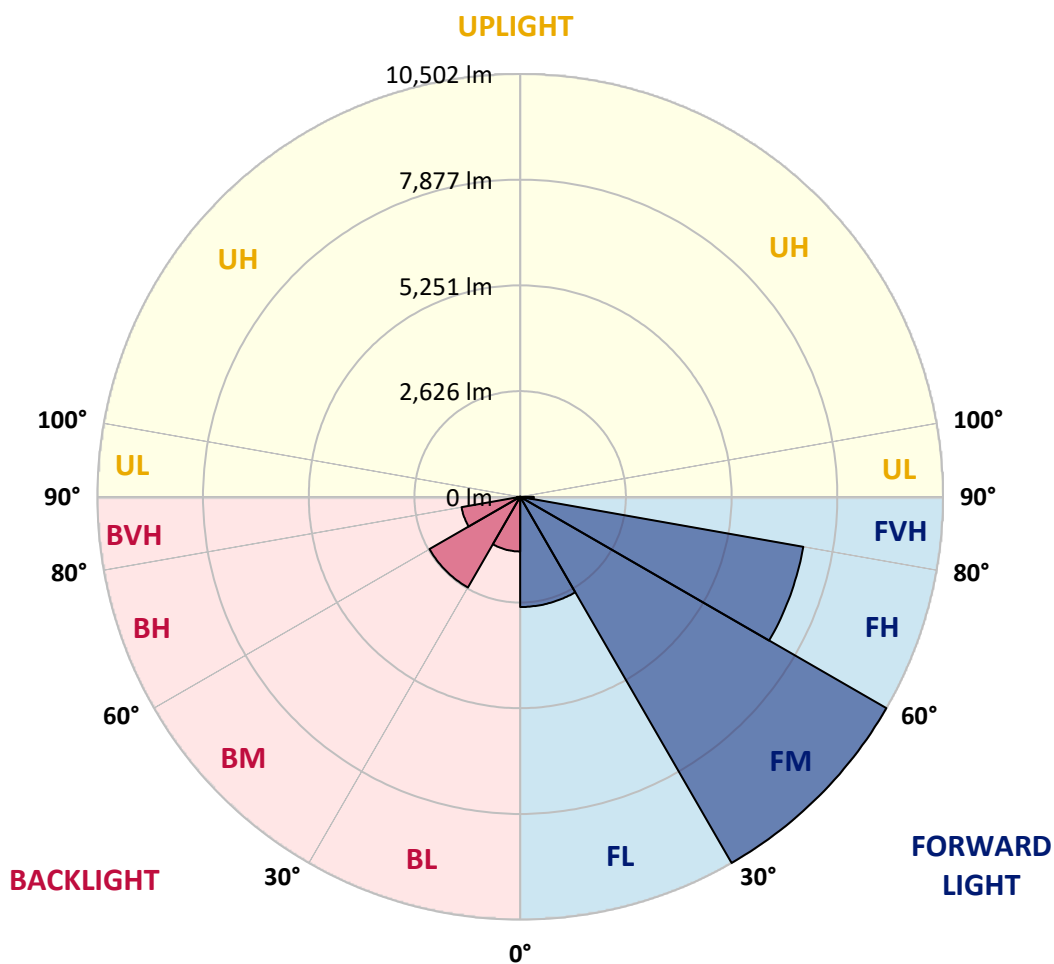
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2736.9	10.4			
FM (30°-60°)	10502.4	40.0			
FH (60°-80°)	7141.2	27.2			G3/7500
FVH (80°-90°)	337.6	1.3			G3/500
BL (0°-30°)	1358.3	5.2	B3/2500		
BM (30°-60°)	2601.3	9.9	B3/5000		
BH (60°-80°)	1478.6	5.6	B3/2500		G3/2500
BVH (80°-90°)	78.7	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°	4769.5	4769.5	4769.5	4769.5	4769.5	4769.5	4769.5	4769.5	4769.5	4769.5	4769.5
2.5°	5031.2	5075.2	5041.6	5028.6	5039.0	4987.1	4945.7	4886.1	4857.6	4836.8	4803.2
5°	5286.4	5359.0	5315.0	5287.7	5283.9	5189.3	5133.6	5051.9	4988.4	4932.7	4847.2
7.5°	5556.0	5598.7	5581.9	5550.8	5530.0	5414.7	5316.2	5200.9	5131.0	5057.1	4913.3
10°	5791.8	5843.6	5826.8	5771.0	5751.6	5633.7	5521.0	5364.2	5268.3	5176.3	4978.1
12.5°	6035.4	6093.7	6058.7	6003.0	5986.1	5866.9	5750.3	5559.8	5440.6	5337.0	5062.3
15°	6259.5	6312.6	6288.0	6224.5	6207.7	6106.6	5978.3	5800.8	5671.3	5533.9	5181.5
17.5°	6438.3	6491.4	6460.3	6430.5	6425.4	6325.6	6249.1	6067.8	5944.7	5758.1	5364.2
20°	6569.2	6623.6	6608.1	6622.3	6676.7	6602.9	6556.2	6403.3	6277.7	6075.5	5627.2
22.5°	6672.8	6742.8	6805.0	6833.5	6934.6	6929.4	6919.0	6828.3	6729.9	6520.0	5940.8
25°	6683.2	6763.5	6886.6	7020.1	7204.1	7292.2	7357.0	7342.7	7227.4	7020.1	6374.8
27.5°	6698.8	6781.7	6908.7	7138.0	7467.1	7673.1	7780.7	7846.7	7779.4	7640.7	6868.5
30°	6665.1	6750.6	6910.0	7202.8	7647.2	8029.4	8221.2	8466.1	8473.9	8357.2	7613.5
32.5°	6512.2	6624.9	6818.0	7210.6	7822.1	8401.3	8696.7	9167.1	9269.4	9182.6	8381.9
35°	6256.9	6359.3	6635.3	7141.9	7928.4	8711.0	9251.3	9984.6	10136.2	10131.1	9286.3
37.5°	5974.5	6078.1	6389.1	6979.9	7997.0	8987.0	9739.8	10795.8	11097.7	11034.2	10140.1
40°	5662.2	5771.0	6129.9	6776.5	7963.4	9233.1	10256.7	11582.2	11956.7	11964.5	10956.4
42.5°	5299.4	5388.8	5749.0	6495.3	7851.9	9414.5	10737.4	12410.2	12804.1	12782.1	11726.1
45°	4952.2	5045.4	5360.3	6060.0	7594.1	9515.6	11209.1	13248.5	13680.0	13610.0	12581.2
47.5°	4532.4	4665.8	5024.7	5694.6	7196.3	9507.8	11621.1	14106.3	14590.9	14533.8	13319.8
50°	3488.0	3567.1	4379.5	5317.5	6657.3	9326.4	12024.1	14948.5	15561.3	15449.9	14107.6
52.5°	3142.1	3213.3	3475.1	4865.3	6167.5	8933.8	12359.7	15912.5	16371.1	16284.3	14912.2
55°	2969.7	3008.6	3168.0	4012.8	5689.4	8296.4	12583.8	16768.9	17245.7	17054.0	15665.0
57.5°	2753.4	2801.3	2986.6	3427.1	5101.2	7318.1	12532.0	17541.2	17981.7	17687.6	16328.4
60°	2587.5	2623.8	2797.4	3085.1	4493.5	6304.9	12002.0	18299.1	18520.7	18230.5	16989.2
62.5°	2447.6	2468.3	2590.1	2863.5	4030.9	5565.0	10968.1	18400.2	18812.2	18602.3	17481.6
65°	2273.9	2279.1	2423.0	2636.7	3603.3	5120.6	10080.5	17881.9	18667.1	18597.1	17659.1
67.5°	2070.5	2080.9	2226.0	2389.3	3088.9	4647.7	8698.0	17603.3	18103.5	18059.4	17307.9
70°	1815.3	1836.0	1969.5	2093.8	2616.0	4080.2	6922.9	16502.0	17095.4	17030.6	16150.9
72.5°	1569.1	1557.4	1681.8	1804.9	2179.4	3406.4	5247.6	14606.4	16035.6	15973.4	14647.9
75°	1289.2	1281.4	1409.7	1526.3	1786.8	2752.1	3691.4	10802.2	14089.4	14281.2	12630.5
77.5°	794.3	800.7	874.6	952.3	1210.2	2056.3	2355.6	6009.4	9571.3	11350.3	9912.1
80°	575.3	575.3	629.7	676.4	800.7	1252.9	1172.6	2505.9	3498.4	5478.2	6181.8
82.5°	373.2	357.6	391.3	431.5	445.7	542.9	536.4	1256.8	1782.9	2145.7	2574.6
85°	194.4	215.1	129.6	182.7	193.1	180.1	185.3	589.5	791.7	1014.5	1116.9
87.5°	29.8	23.3	31.1	42.8	49.2	41.5	36.3	68.7	106.2	141.2	167.1
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°	4769.5	4769.5	4769.5	4769.5	4769.5	4769.5	4769.5	4769.5	4769.5	4769.5	4769.5
2.5°	4781.1	4774.6	4715.0	4628.2	4557.0	4497.4	4458.5	4432.6	4461.1	4409.3	4402.8
5°	4794.1	4750.0	4620.5	4496.1	4400.2	4271.9	4185.1	4126.8	4150.1	4104.8	4086.6
7.5°	4829.1	4748.7	4569.9	4371.7	4190.3	4052.9	3919.5	3791.2	3771.8	3743.3	3744.6
10°	4860.2	4744.8	4511.6	4252.5	4041.3	3799.0	3638.3	3506.2	3476.4	3442.7	3425.8
12.5°	4909.4	4753.9	4439.1	4125.5	3843.0	3563.2	3389.5	3234.1	3204.3	3138.2	3123.9
15°	5007.9	4786.3	4367.8	3968.7	3620.2	3337.7	3113.6	2977.5	2923.1	2849.2	2847.9
17.5°	5136.1	4880.9	4331.5	3821.0	3431.0	3114.9	2877.7	2740.4	2648.4	2604.4	2592.7
20°	5318.8	5004.0	4330.2	3687.6	3234.1	2876.4	2604.4	2448.9	2371.1	2334.8	2312.8
22.5°	5600.0	5185.4	4353.5	3594.3	3035.8	2645.8	2375.0	2161.2	2032.9	1933.2	1947.4
25°	5949.8	5457.5	4406.7	3508.7	2863.5	2425.5	2086.1	1789.4	1560.0	1460.3	1468.0
27.5°	6394.3	5782.7	4544.0	3421.9	2667.8	2188.4	1709.0	1332.0	1158.4	1041.7	1050.8
30°	6963.1	6187.0	4724.1	3354.6	2486.4	1856.7	1286.6	982.1	829.2	733.4	724.3
32.5°	7643.3	6772.6	4921.1	3309.2	2288.2	1442.1	927.7	720.4	571.4	517.0	524.8
35°	8485.5	7430.8	5221.7	3243.1	1948.7	1026.2	662.1	487.2	410.7	400.4	401.7
37.5°	9253.9	8104.6	5519.7	3131.7	1538.0	729.5	449.6	370.6	353.7	349.8	355.0
40°	10006.7	8718.7	5789.2	2969.7	1057.3	500.1	330.4	334.3	320.0	309.7	304.5
42.5°	10711.5	9310.9	6000.4	2671.7	723.0	330.4	292.8	304.5	301.9	281.2	272.1
45°	11472.1	9936.7	6117.0	2254.5	454.8	281.2	263.0	283.8	296.7	273.4	263.0
47.5°	12121.3	10547.0	6111.8	1727.2	308.4	265.6	247.5	265.6	281.2	264.3	255.3
50°	12870.2	11052.3	5946.0	1096.2	273.4	246.2	237.1	243.6	264.3	252.7	243.6
52.5°	13702.0	11744.2	5694.6	611.6	259.1	233.2	220.3	228.0	246.2	231.9	237.1
55°	14391.3	12318.2	5103.8	417.2	252.7	217.7	209.9	215.1	222.9	208.6	216.4
57.5°	15006.8	12792.4	4506.4	342.1	243.6	207.3	206.0	195.7	194.4	185.3	177.5
60°	15630.0	13166.9	3700.5	309.7	234.5	208.6	186.6	172.3	160.7	151.6	147.7
62.5°	16108.1	13426.0	2927.0	279.9	221.6	195.7	171.0	147.7	128.3	116.6	116.6
65°	16248.0	13310.7	2060.2	254.0	207.3	184.0	152.9	120.5	97.2	89.4	85.5
67.5°	15799.7	12648.6	1434.3	234.5	193.1	171.0	134.8	98.5	77.7	67.4	64.8
70°	14658.2	11540.8	846.1	207.3	174.9	149.0	123.1	80.3	63.5	53.1	50.5
72.5°	12971.2	9879.7	527.3	176.2	150.3	121.8	92.0	66.1	50.5	41.5	40.2
75°	10714.1	7701.6	344.7	136.0	119.2	95.9	70.0	53.1	44.1	35.0	32.4
77.5°	8591.8	5448.4	308.4	103.7	88.1	68.7	53.1	44.1	36.3	31.1	31.1
80°	4944.4	3109.7	252.7	71.3	54.4	51.8	41.5	36.3	33.7	29.8	28.5
82.5°	2429.4	1493.9	163.3	44.1	31.1	33.7	35.0	32.4	28.5	25.9	25.9
85°	837.0	497.5	66.1	28.5	20.7	20.7	22.0	23.3	22.0	20.7	20.7
87.5°	129.6	94.6	18.1	16.8	13.0	11.7	13.0	14.3	14.3	13.0	13.0
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)