

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: P510260

Luminaire Tested: **VERD-M-CA4-240-727-U-T2-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510260
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-CA4-240-727-U-T2-HSS
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 2700K, 1090mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25911 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

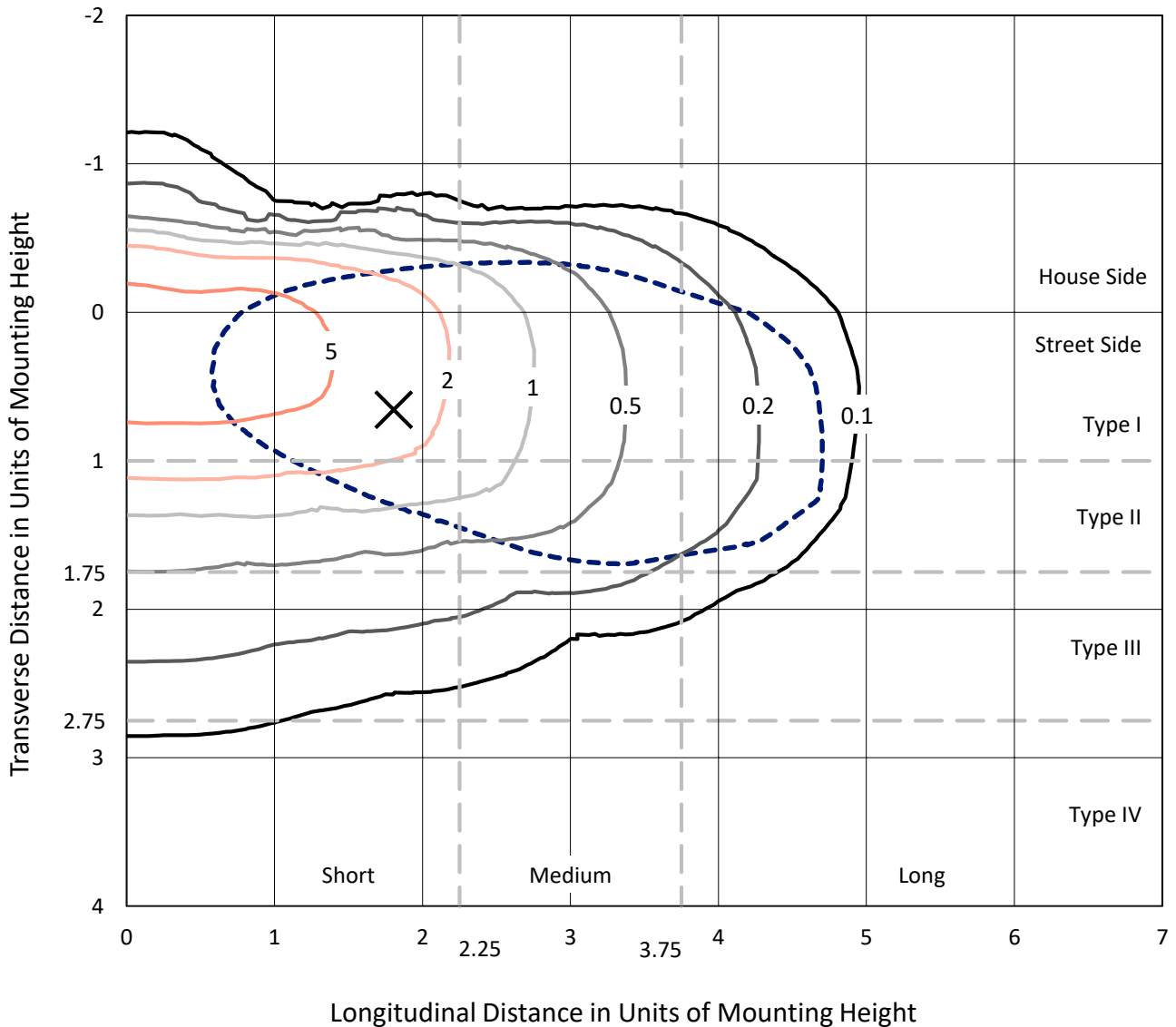
Input Watts (W): 242.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

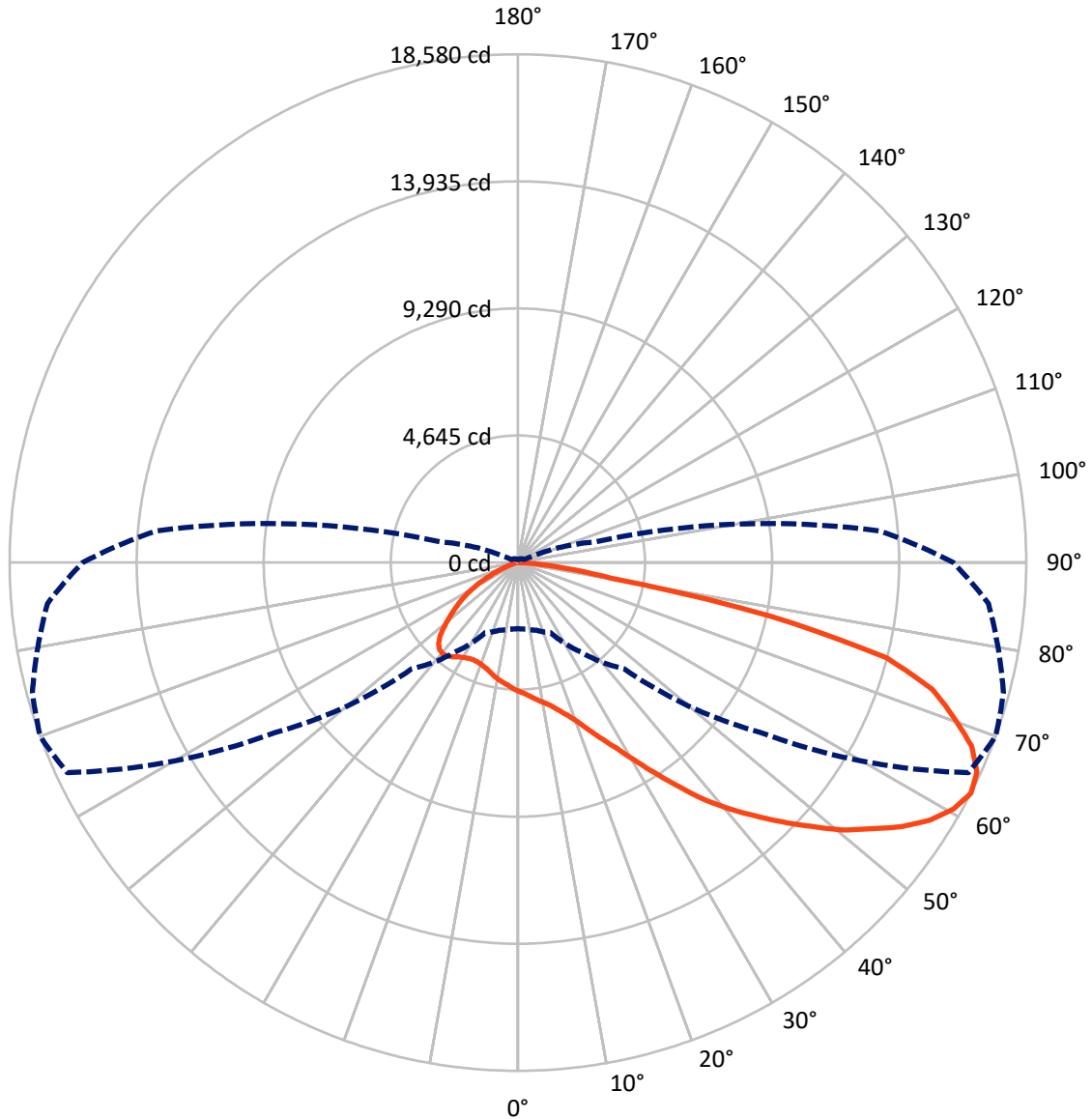
× Max cd
 - - - 1/2 Max cd



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	5448.8	0.0	5448.8
	% Fixture	21.0	0.0	21.0
Street Side	Lumens	20462.2	0.0	20462.2
	% Fixture	79.0	0.0	79.0
Total	Lumens	25911.0	0.0	25911.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	447.2	1.7
10°-20°	1334.7	5.2
20°-30°	2262.7	8.7
30°-40°	3327.4	12.8
40°-50°	4431.0	17.1
50°-60°	5183.4	20.0
60°-70°	5213.3	20.1
70°-80°	3300.1	12.7
80°-90°	411.2	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°	25911.0	100.0
0°-180°	25911.0	100.0

Coefficient of Utilization



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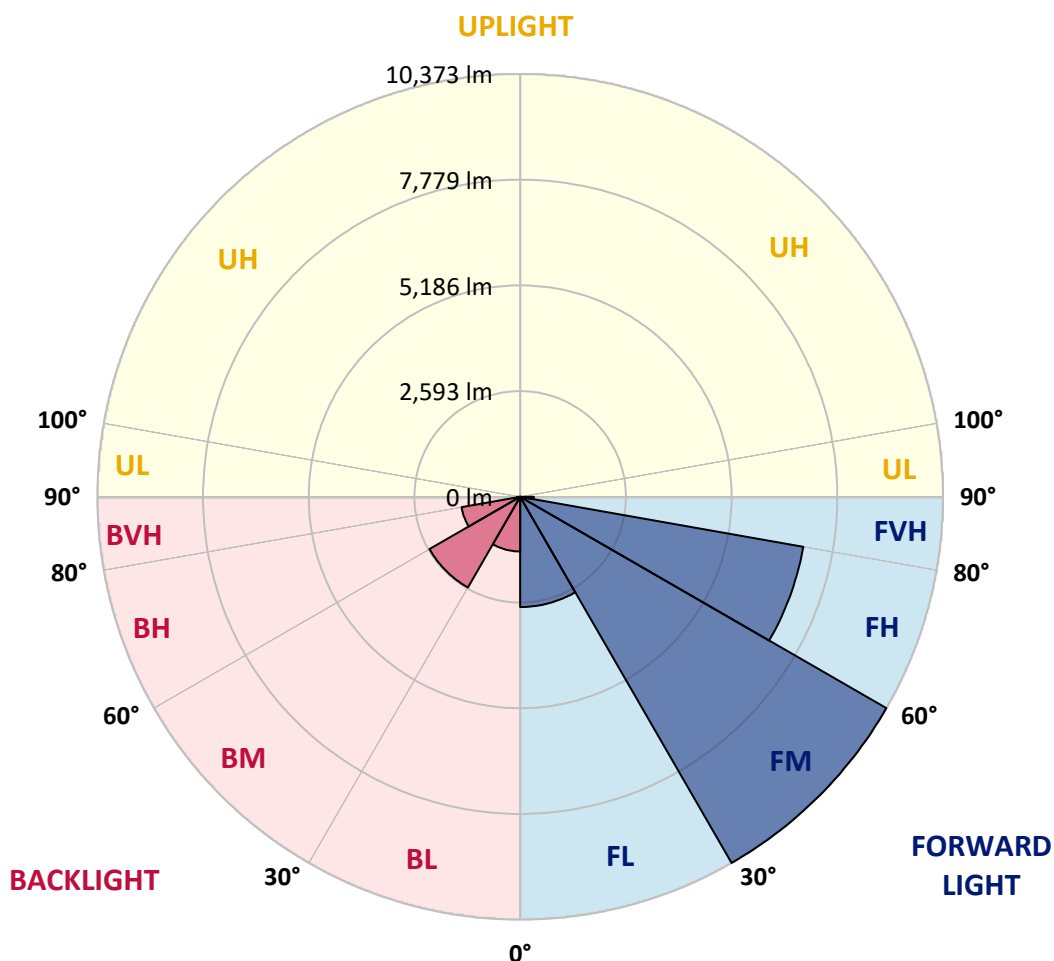
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2703.1	10.4			
FM (30°-60°)	10372.7	40.0			
FH (60°-80°)	7053.0	27.2			G3/7500
FVH (80°-90°)	333.5	1.3			G3/500
BL (0°-30°)	1341.5	5.2	B3/2500		
BM (30°-60°)	2569.2	9.9	B3/5000		
BH (60°-80°)	1460.4	5.6	B3/2500		G3/2500
BVH (80°-90°)	77.8	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°	4710.6	4710.6	4710.6	4710.6	4710.6	4710.6	4710.6	4710.6	4710.6	4710.6	4710.6
2.5°	4969.1	5012.6	4979.3	4966.5	4976.7	4925.5	4884.6	4825.7	4797.6	4777.1	4743.8
5°	5221.2	5292.8	5249.3	5222.4	5218.6	5125.2	5070.2	4989.5	4926.8	4871.8	4787.3
7.5°	5487.3	5529.6	5512.9	5482.2	5461.7	5347.8	5250.6	5136.7	5067.6	4994.7	4852.6
10°	5720.2	5771.4	5754.8	5699.8	5680.6	5564.1	5452.8	5297.9	5203.2	5112.4	4916.6
12.5°	5960.8	6018.4	5983.9	5928.8	5912.2	5794.5	5679.3	5491.2	5373.4	5271.1	4999.8
15°	6182.2	6234.7	6210.4	6147.7	6131.0	6031.2	5904.5	5729.2	5601.2	5465.6	5117.5
17.5°	6358.8	6411.3	6380.6	6351.1	6346.0	6247.5	6172.0	5992.8	5871.2	5687.0	5297.9
20°	6488.1	6541.8	6526.4	6540.5	6594.3	6521.3	6475.3	6324.3	6200.1	6000.5	5557.7
22.5°	6590.4	6659.5	6721.0	6749.1	6848.9	6843.8	6833.6	6744.0	6646.7	6439.4	5867.4
25°	6600.7	6680.0	6801.6	6933.4	7115.1	7202.1	7266.1	7252.0	7138.1	6933.4	6296.1
27.5°	6616.0	6697.9	6823.3	7049.8	7374.9	7578.4	7684.6	7749.8	7683.3	7546.4	6783.7
30°	6582.8	6667.2	6824.6	7113.8	7552.8	7930.3	8119.7	8361.5	8369.2	8254.0	7519.5
32.5°	6431.8	6543.1	6733.8	7121.5	7725.5	8297.5	8589.3	9053.8	9154.9	9069.2	8278.4
35°	6179.7	6280.7	6553.3	7053.7	7830.5	8603.4	9137.0	9861.3	10011.1	10005.9	9171.6
37.5°	5900.7	6003.1	6310.2	6893.7	7898.3	8876.0	9619.5	10662.4	10960.6	10897.9	10014.9
40°	5592.3	5699.8	6054.2	6692.8	7865.0	9119.1	10130.1	11439.2	11809.0	11816.7	10821.1
42.5°	5234.0	5322.3	5678.0	6415.1	7755.0	9298.3	10604.8	12256.9	12646.0	12624.2	11581.2
45°	4891.0	4983.1	5294.1	5985.1	7500.3	9398.1	11070.6	13084.9	13511.0	13441.9	12425.8
47.5°	4476.4	4608.2	4962.7	5624.3	7107.4	9390.4	11477.6	13932.0	14410.7	14354.3	13155.3
50°	3444.9	3523.0	4325.4	5251.9	6575.1	9211.3	11875.6	14763.9	15369.1	15259.1	13933.3
52.5°	3103.3	3173.6	3432.1	4805.3	6091.4	8823.5	12207.0	15715.9	16169.0	16083.2	14728.0
55°	2933.1	2971.5	3128.9	3963.2	5619.1	8193.9	12428.4	16561.8	17032.8	16843.4	15471.5
57.5°	2719.4	2766.7	2949.7	3384.8	5038.2	7227.7	12377.2	17324.5	17759.6	17469.1	16126.7
60°	2555.6	2591.4	2762.9	3047.0	4438.0	6227.0	11853.8	18073.1	18292.0	18005.3	16779.4
62.5°	2417.3	2437.8	2558.1	2828.1	3981.1	5496.3	10832.6	18173.0	18579.9	18372.6	17265.7
65°	2245.9	2251.0	2393.0	2604.2	3558.8	5057.4	9956.0	17661.1	18436.6	18367.5	17441.0
67.5°	2045.0	2055.2	2198.5	2359.8	3050.8	4590.3	8590.6	17385.9	17879.9	17836.4	17094.2
70°	1792.9	1813.3	1945.1	2068.0	2583.7	4029.8	6837.4	16298.2	16884.3	16820.3	15951.4
72.5°	1549.7	1538.2	1661.0	1782.6	2152.4	3364.3	5182.8	14426.0	15837.5	15776.1	14467.0
75°	1273.3	1265.6	1392.3	1507.5	1764.7	2718.1	3645.9	10668.8	13915.4	14104.8	12474.5
77.5°	784.5	790.9	863.8	940.6	1195.2	2030.9	2326.5	5935.2	9453.1	11210.1	9789.7
80°	568.2	568.2	621.9	668.0	790.9	1237.5	1158.1	2474.9	3455.2	5410.6	6105.4
82.5°	368.6	353.2	386.5	426.1	440.2	536.2	529.8	1241.3	1760.9	2119.2	2542.8
85°	192.0	212.4	128.0	180.4	190.7	177.9	183.0	582.3	781.9	1002.0	1103.1
87.5°	29.4	23.0	30.7	42.2	48.6	41.0	35.8	67.8	104.9	139.5	165.1
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°	4710.6	4710.6	4710.6	4710.6	4710.6	4710.6	4710.6	4710.6	4710.6	4710.6	4710.6
2.5°	4722.1	4715.7	4656.8	4571.1	4500.7	4441.8	4403.4	4377.8	4406.0	4354.8	4348.4
5°	4734.9	4691.4	4563.4	4440.5	4345.8	4219.2	4133.4	4075.8	4098.9	4054.1	4036.2
7.5°	4769.4	4690.1	4513.5	4317.7	4138.5	4002.9	3871.1	3744.4	3725.2	3697.0	3698.3
10°	4800.1	4686.2	4455.9	4200.0	3991.4	3752.1	3593.4	3462.9	3433.4	3400.2	3383.5
12.5°	4848.8	4695.2	4384.2	4074.6	3795.6	3519.2	3347.7	3194.1	3164.7	3099.4	3085.3
15°	4946.0	4727.2	4313.9	3919.7	3575.5	3296.5	3075.1	2940.7	2887.0	2814.1	2812.8
17.5°	5072.7	4820.6	4278.0	3773.8	3388.6	3076.4	2842.2	2706.6	2615.7	2572.2	2560.7
20°	5253.2	4942.2	4276.7	3642.0	3194.1	2840.9	2572.2	2418.6	2341.8	2306.0	2284.3
22.5°	5530.8	5121.3	4299.8	3549.9	2998.3	2613.1	2345.7	2134.5	2007.8	1909.3	1923.4
25°	5876.4	5390.1	4352.2	3465.4	2828.1	2395.6	2060.3	1767.3	1540.8	1442.2	1449.9
27.5°	6315.3	5711.3	4487.9	3379.7	2634.9	2161.4	1687.9	1315.5	1144.0	1028.9	1037.8
30°	6877.1	6110.5	4665.8	3313.1	2455.7	1833.8	1270.7	970.0	819.0	724.3	715.4
32.5°	7548.9	6689.0	4860.3	3268.3	2259.9	1424.3	916.3	711.5	564.3	510.6	518.3
35°	8380.7	7339.1	5157.2	3203.1	1924.7	1013.5	653.9	481.2	405.7	395.4	396.7
37.5°	9139.6	8004.5	5451.5	3093.0	1519.0	720.5	444.1	366.0	349.4	345.5	350.6
40°	9883.1	8611.1	5717.7	2933.1	1044.2	494.0	326.3	330.2	316.1	305.8	300.7
42.5°	10579.2	9195.9	5926.3	2638.7	714.1	326.3	289.2	300.7	298.2	277.7	268.7
45°	11330.4	9814.0	6041.4	2226.7	449.2	277.7	259.8	280.3	293.1	270.0	259.8
47.5°	11971.6	10416.7	6036.3	1705.8	304.6	262.3	244.4	262.3	277.7	261.1	252.1
50°	12711.2	10915.8	5872.5	1082.6	270.0	243.1	234.2	240.6	261.1	249.5	240.6
52.5°	13532.8	11599.2	5624.3	604.0	255.9	230.3	217.5	225.2	243.1	229.1	234.2
55°	14213.6	12166.1	5040.7	412.1	249.5	215.0	207.3	212.4	220.1	206.0	213.7
57.5°	14821.4	12634.4	4450.8	337.8	240.6	204.8	203.5	193.2	192.0	183.0	175.3
60°	15437.0	13004.3	3654.8	305.8	231.6	206.0	184.3	170.2	158.7	149.7	145.9
62.5°	15909.2	13260.2	2890.8	276.4	218.8	193.2	168.9	145.9	126.7	115.2	115.2
65°	16047.4	13146.3	2034.7	250.8	204.8	181.7	151.0	119.0	96.0	88.3	84.5
67.5°	15604.6	12492.4	1416.6	231.6	190.7	168.9	133.1	97.3	76.8	66.5	64.0
70°	14477.2	11398.3	835.6	204.8	172.8	147.2	121.6	79.3	62.7	52.5	49.9
72.5°	12811.0	9757.7	520.8	174.0	148.4	120.3	90.9	65.3	49.9	41.0	39.7
75°	10581.8	7606.5	340.4	134.4	117.7	94.7	69.1	52.5	43.5	34.6	32.0
77.5°	8485.7	5381.1	304.6	102.4	87.0	67.8	52.5	43.5	35.8	30.7	30.7
80°	4883.3	3071.3	249.5	70.4	53.7	51.2	41.0	35.8	33.3	29.4	28.2
82.5°	2399.4	1475.5	161.2	43.5	30.7	33.3	34.6	32.0	28.2	25.6	25.6
85°	826.7	491.4	65.3	28.2	20.5	20.5	21.8	23.0	21.8	20.5	20.5
87.5°	128.0	93.4	17.9	16.6	12.8	11.5	12.8	14.1	14.1	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)