

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: P510340

Luminaire Tested: **VERD-M-CA4-250-760-U-T2-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510340
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-CA4-250-760-U-T2-HSS
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 5700K, 1130mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31522 lumens
Efficiency: N/A
Efficacy: 125.2 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

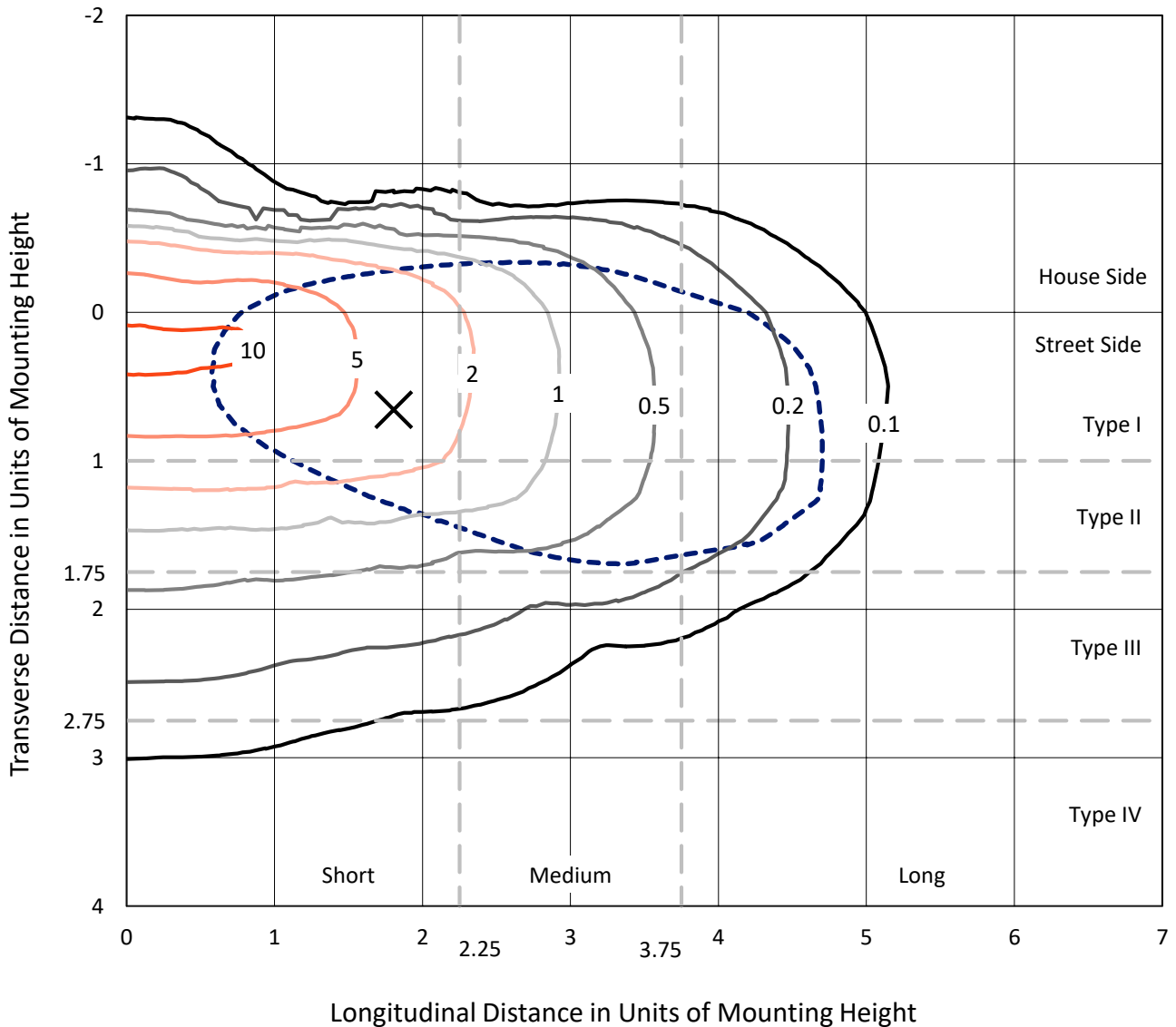
Input Watts (W): 251.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

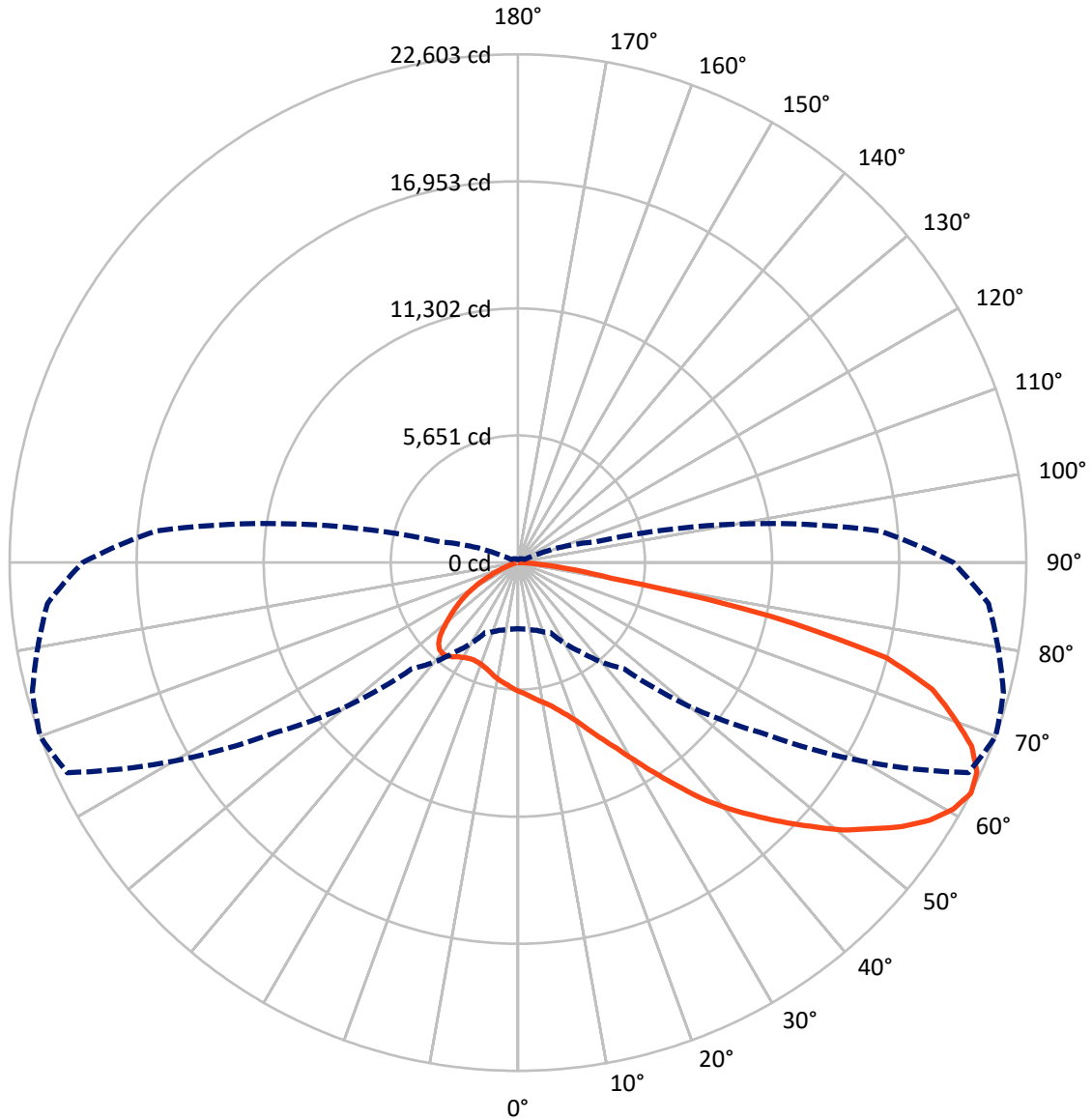
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 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	6628.7	0.0	6628.7
	% Fixture	21.0	0.0	21.0
Street Side	Lumens	24893.3	0.0	24893.3
	% Fixture	79.0	0.0	79.0
Total	Lumens	31522.0	0.0	31522.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	544.1	1.7
10°-20°	1623.7	5.2
20°-30°	2752.6	8.7
30°-40°	4047.9	12.8
40°-50°	5390.6	17.1
50°-60°	6305.9	20.0
60°-70°	6342.2	20.1
70°-80°	4014.7	12.7
80°-90°	500.3	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°	31522.0	100.0
0°-180°	31522.0	100.0

Coefficient of Utilization



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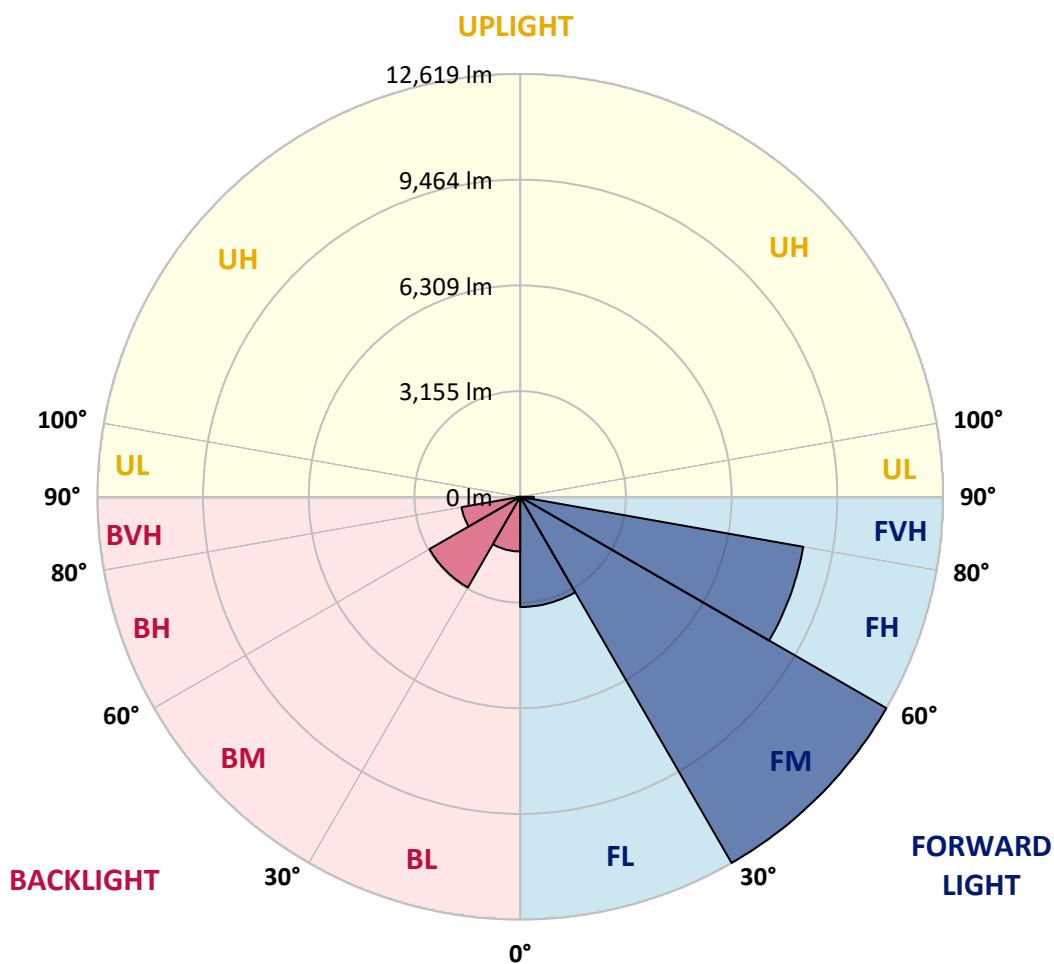
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3288.4	10.4			
FM (30°-60°)	12618.8	40.0			
FH (60°-80°)	8580.3	27.2			G4/12000
FVH (80°-90°)	405.7	1.3			G3/500
BL (0°-30°)	1632.0	5.2	B3/2500		
BM (30°-60°)	3125.5	9.9	B3/5000		
BH (60°-80°)	1776.6	5.6	B3/2500		G3/2500
BVH (80°-90°)	94.6	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°	5730.6	5730.6	5730.6	5730.6	5730.6	5730.6	5730.6	5730.6	5730.6	5730.6	5730.6
2.5°	6045.1	6098.0	6057.6	6042.0	6054.4	5992.2	5942.4	5870.7	5836.5	5811.6	5771.1
5°	6351.8	6439.0	6386.0	6353.4	6348.7	6235.0	6168.1	6070.0	5993.7	5926.8	5824.0
7.5°	6675.6	6727.0	6706.7	6669.4	6644.5	6505.9	6387.6	6249.0	6165.0	6076.2	5903.4
10°	6959.0	7021.2	7001.0	6934.0	6910.7	6769.0	6633.6	6445.2	6330.0	6219.5	5981.3
12.5°	7251.6	7321.7	7279.7	7212.7	7192.5	7049.2	6909.1	6680.3	6537.1	6412.5	6082.5
15°	7521.0	7584.8	7555.2	7478.9	7458.7	7337.3	7183.1	6969.9	6814.2	6649.1	6225.7
17.5°	7735.8	7799.6	7762.3	7726.5	7720.2	7600.4	7508.5	7290.6	7142.7	6918.5	6445.2
20°	7893.0	7958.4	7939.7	7956.9	8022.3	7933.5	7877.5	7693.8	7542.8	7299.9	6761.2
22.5°	8017.6	8101.7	8176.4	8210.6	8332.1	8325.8	8313.4	8204.4	8086.1	7833.9	7138.0
25°	8030.0	8126.6	8274.5	8434.8	8655.9	8761.7	8839.6	8822.5	8683.9	8434.8	7659.5
27.5°	8048.7	8148.4	8300.9	8576.5	8971.9	9219.4	9348.7	9428.1	9347.1	9180.5	8252.7
30°	8008.2	8111.0	8302.5	8654.3	9188.3	9647.6	9878.0	10172.2	10181.6	10041.4	9147.8
32.5°	7824.5	7960.0	8191.9	8663.7	9398.5	10094.4	10449.3	11014.4	11137.4	11033.1	10071.0
35°	7517.8	7640.8	7972.4	8581.2	9526.1	10466.5	11115.6	11996.8	12178.9	12172.7	11157.7
37.5°	7178.5	7303.0	7676.6	8386.6	9608.6	10798.1	11702.6	12971.4	13334.1	13257.8	12183.6
40°	6803.3	6934.0	7365.3	8142.1	9568.2	11093.8	12323.7	13916.3	14366.3	14375.6	13164.4
42.5°	6367.4	6474.8	6907.6	7804.3	9434.3	11311.8	12901.3	14911.2	15384.4	15358.0	14089.2
45°	5950.1	6062.2	6440.5	7281.2	9124.5	11433.2	13468.0	15918.4	16436.8	16352.8	15116.7
47.5°	5445.7	5606.1	6037.3	6842.2	8646.5	11423.9	13963.1	16949.0	17531.3	17462.8	16004.0
50°	4190.9	4285.9	5262.0	6389.2	7998.9	11205.9	14447.2	17960.9	18697.3	18563.4	16950.6
52.5°	3775.3	3860.9	4175.4	5845.8	7410.4	10734.2	14850.4	19119.2	19670.3	19566.0	17917.4
55°	3568.2	3614.9	3806.4	4821.4	6836.0	9968.3	15119.8	20148.3	20721.2	20490.8	18821.9
57.5°	3308.2	3365.8	3588.5	4117.8	6129.2	8792.9	15057.5	21076.1	21605.4	21252.1	19619.0
60°	3109.0	3152.5	3361.2	3706.8	5399.0	7575.5	14420.8	21986.9	22253.1	21904.4	20412.9
62.5°	2940.8	2965.7	3112.1	3440.6	4843.2	6686.5	13178.4	22108.3	22603.4	22351.2	21004.5
65°	2732.2	2738.4	2911.2	3168.1	4329.5	6152.5	12112.0	21485.6	22429.0	22344.9	21217.8
67.5°	2487.8	2500.2	2674.6	2870.8	3711.4	5584.3	10450.9	21150.9	21751.8	21698.9	20795.9
70°	2181.1	2206.0	2366.4	2515.8	3143.2	4902.4	8318.1	19827.6	20540.6	20462.7	19405.7
72.5°	1885.3	1871.3	2020.7	2168.6	2618.6	4092.9	6305.1	17549.9	19267.1	19192.4	17599.8
75°	1549.0	1539.7	1693.8	1833.9	2146.8	3306.7	4435.4	12979.1	16928.8	17159.2	15175.8
77.5°	954.3	962.1	1050.8	1144.3	1454.1	2470.7	2830.3	7220.5	11500.2	13637.7	11909.6
80°	691.2	691.2	756.6	812.7	962.1	1505.4	1408.9	3010.9	4203.4	6582.2	7427.6
82.5°	448.4	429.7	470.2	518.4	535.5	652.3	644.5	1510.1	2142.2	2578.1	3093.4
85°	233.5	258.4	155.7	219.5	232.0	216.4	222.6	708.3	951.2	1219.0	1342.0
87.5°	35.8	28.0	37.4	51.4	59.2	49.8	43.6	82.5	127.7	169.7	200.8
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°	5730.6	5730.6	5730.6	5730.6	5730.6	5730.6	5730.6	5730.6	5730.6	5730.6	5730.6
2.5°	5744.6	5736.9	5665.2	5560.9	5475.3	5403.7	5357.0	5325.9	5360.1	5297.8	5290.0
5°	5760.2	5707.3	5551.6	5402.1	5286.9	5132.8	5028.5	4958.4	4986.5	4932.0	4910.2
7.5°	5802.2	5705.7	5490.9	5252.7	5034.7	4869.7	4709.4	4555.2	4531.9	4497.6	4499.2
10°	5839.6	5701.0	5420.8	5109.5	4855.7	4564.6	4371.5	4212.7	4176.9	4136.5	4116.2
12.5°	5898.8	5711.9	5333.6	4956.9	4617.5	4281.2	4072.6	3885.8	3850.0	3770.6	3753.5
15°	6017.1	5750.9	5248.0	4768.5	4349.7	4010.3	3741.0	3577.6	3512.2	3423.4	3421.9
17.5°	6171.2	5864.5	5204.4	4591.0	4122.4	3742.6	3457.7	3292.7	3182.1	3129.2	3115.2
20°	6390.7	6012.4	5202.9	4430.7	3885.8	3456.1	3129.2	2942.4	2849.0	2805.4	2778.9
22.5°	6728.5	6230.4	5230.9	4318.6	3647.6	3179.0	2853.6	2596.8	2442.6	2322.8	2339.9
25°	7148.9	6557.3	5294.7	4215.8	3440.6	2914.4	2506.5	2150.0	1874.4	1754.5	1763.9
27.5°	7682.9	6948.1	5459.7	4111.5	3205.5	2629.5	2053.4	1600.4	1391.8	1251.7	1262.6
30°	8366.3	7433.8	5676.1	4030.6	2987.5	2230.9	1545.9	1180.1	996.4	881.2	870.3
32.5°	9183.6	8137.5	5912.8	3976.1	2749.3	1732.7	1114.7	865.6	686.6	621.2	630.5
35°	10195.6	8928.3	6274.0	3896.7	2341.4	1233.0	795.5	585.4	493.5	481.1	482.6
37.5°	11118.8	9737.9	6632.0	3762.8	1847.9	876.5	540.2	445.2	425.0	420.3	426.6
40°	12023.3	10475.8	6955.8	3568.2	1270.4	600.9	397.0	401.7	384.5	372.1	365.9
42.5°	12870.2	11187.3	7209.6	3210.1	868.7	397.0	351.8	365.9	362.7	337.8	326.9
45°	13784.0	11939.2	7349.7	2708.9	546.4	337.8	316.0	340.9	356.5	328.5	316.0
47.5°	14564.0	12672.5	7343.5	2075.2	370.5	319.1	297.4	319.1	337.8	317.6	306.7
50°	15463.8	13279.6	7144.2	1317.1	328.5	295.8	284.9	292.7	317.6	303.6	292.7
52.5°	16463.3	14111.0	6842.2	734.8	311.4	280.2	264.7	274.0	295.8	278.7	284.9
55°	17291.5	14800.6	6132.3	501.3	303.6	261.5	252.2	258.4	267.8	250.6	260.0
57.5°	18031.0	15370.4	5414.6	411.0	292.7	249.1	247.5	235.1	233.5	222.6	213.3
60°	18779.8	15820.3	4446.3	372.1	281.8	250.6	224.2	207.1	193.0	182.1	177.5
62.5°	19354.3	16131.7	3516.8	336.3	266.2	235.1	205.5	177.5	154.1	140.1	140.1
65°	19522.4	15993.1	2475.3	305.1	249.1	221.1	183.7	144.8	116.8	107.4	102.7
67.5°	18983.8	15197.6	1723.4	281.8	232.0	205.5	161.9	118.3	93.4	81.0	77.8
70°	17612.2	13866.5	1016.6	249.1	210.2	179.0	147.9	96.5	76.3	63.8	60.7
72.5°	15585.3	11870.7	633.6	211.7	180.6	146.3	110.5	79.4	60.7	49.8	48.3
75°	12873.3	9253.7	414.1	163.5	143.2	115.2	84.1	63.8	52.9	42.0	38.9
77.5°	10323.2	6546.4	370.5	124.5	105.9	82.5	63.8	52.9	43.6	37.4	37.4
80°	5940.8	3736.4	303.6	85.6	65.4	62.3	49.8	43.6	40.5	35.8	34.2
82.5°	2919.0	1795.0	196.2	52.9	37.4	40.5	42.0	38.9	34.2	31.1	31.1
85°	1005.7	597.8	79.4	34.2	24.9	24.9	26.5	28.0	26.5	24.9	24.9
87.5°	155.7	113.6	21.8	20.2	15.6	14.0	15.6	17.1	17.1	15.6	15.6
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)