

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: P509861

Luminaire Tested: **VERD-M-CA3-150-760-U-T2**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509861
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-2)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-M-CA3-150-760-U-T2
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5700K, 940mA LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22057 lumens
Efficiency: N/A
Efficacy: 144.2 lumens/watt
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

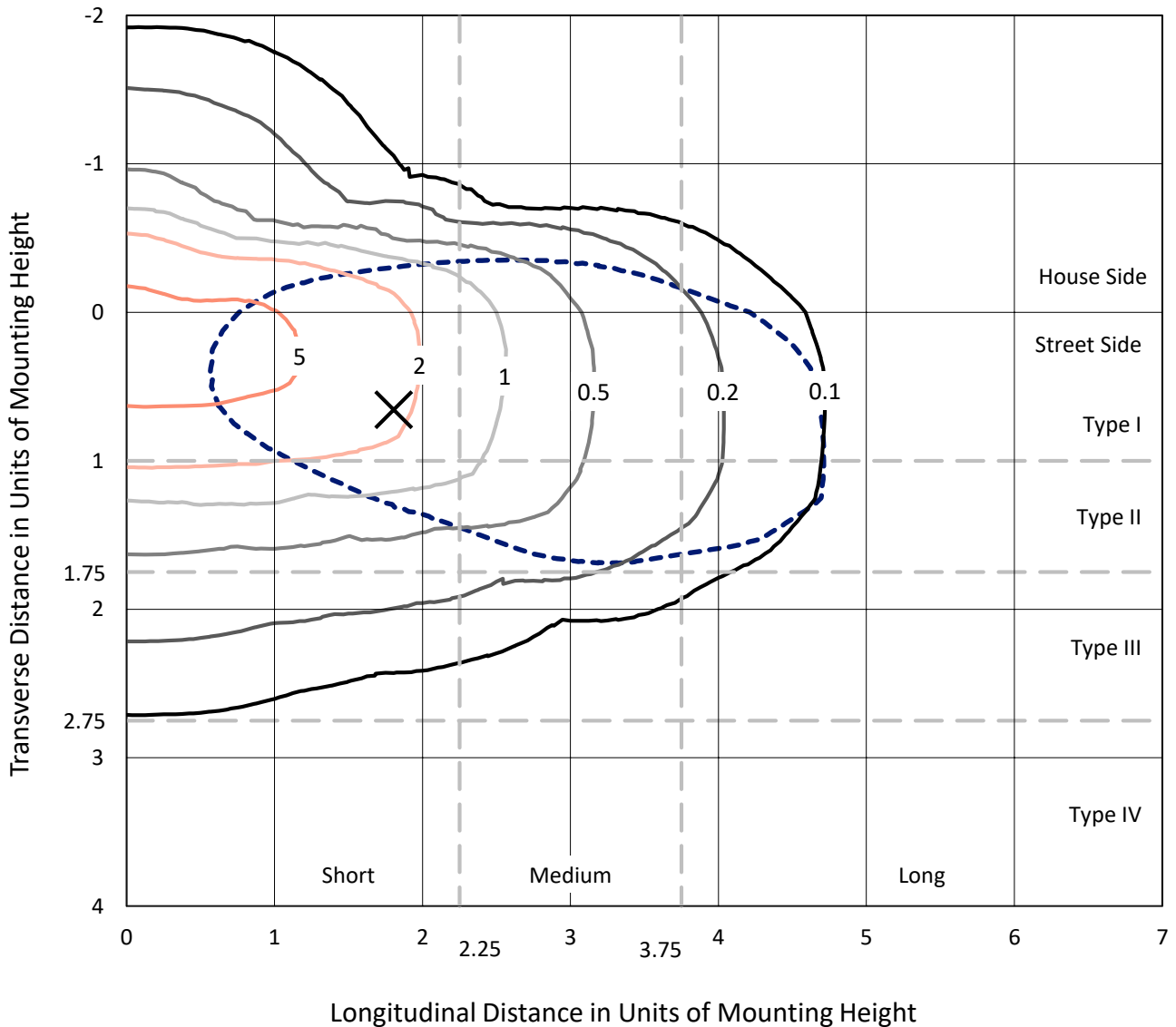
Input Watts (W): 153
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P509861
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Iso-Footcandle Lines of Horizontal Illumination

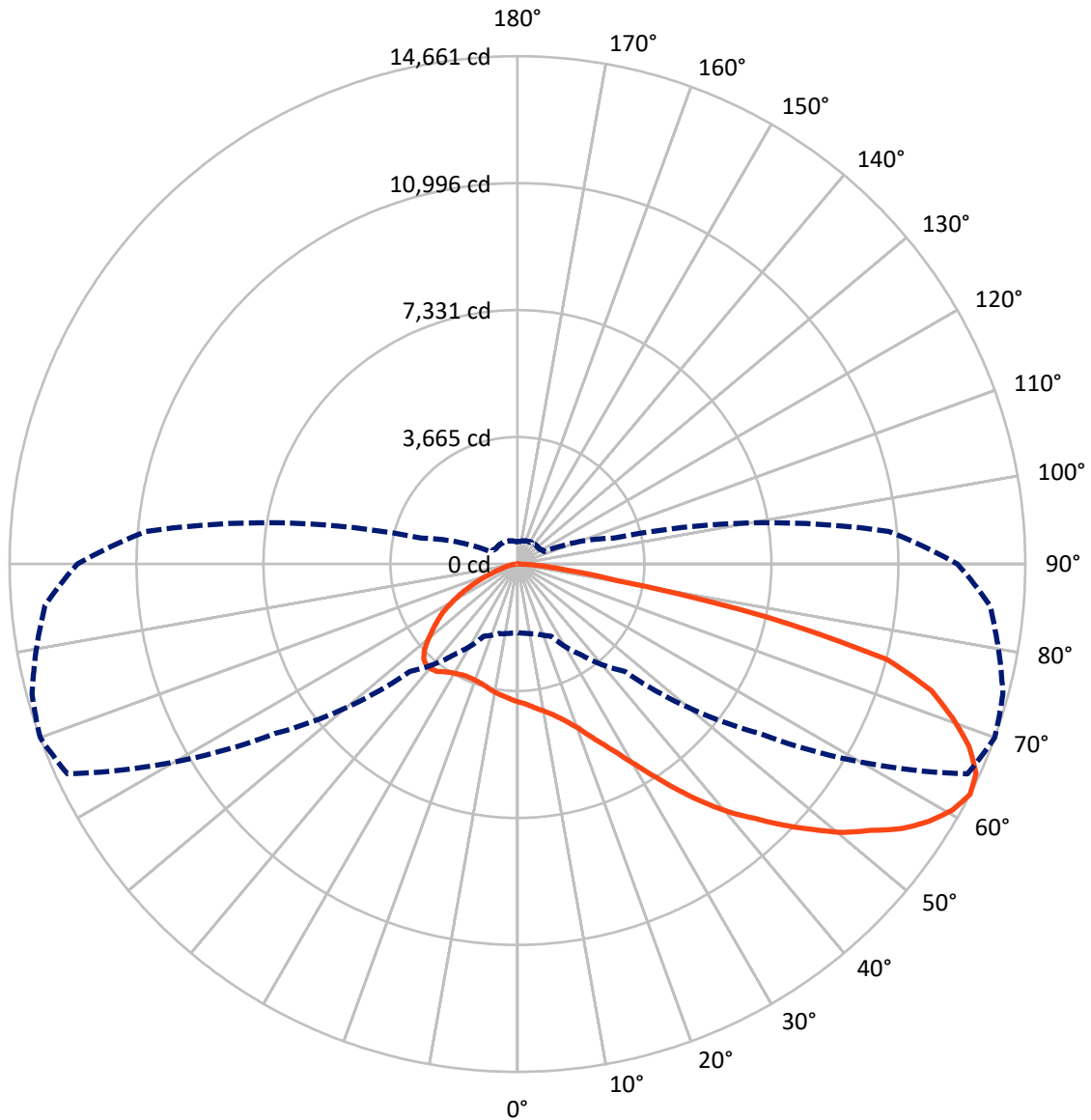
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type II - Short - N/A

REPORT NUMBER: P509861
CATALOG NUMBER: VERD-M-CA3-150-760-U-T2

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	5710.7	0.0	5710.7
	% Fixture	25.9	0.0	25.9
Street Side	Lumens	16346.3	0.0	16346.3
	% Fixture	74.1	0.0	74.1
Total	Lumens	22057.0	0.0	22057.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	382.4	1.7
10°-20°	1161.2	5.3
20°-30°	1970.8	8.9
30°-40°	2851.6	12.9
40°-50°	3742.0	17.0
50°-60°	4372.4	19.8
60°-70°	4387.9	19.9
70°-80°	2796.0	12.7
80°-90°	392.9	1.8
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°	22057.0	100.0
0°-180°	22057.0	100.0

Coefficient of Utilization



REPORT NUMBER: P509861

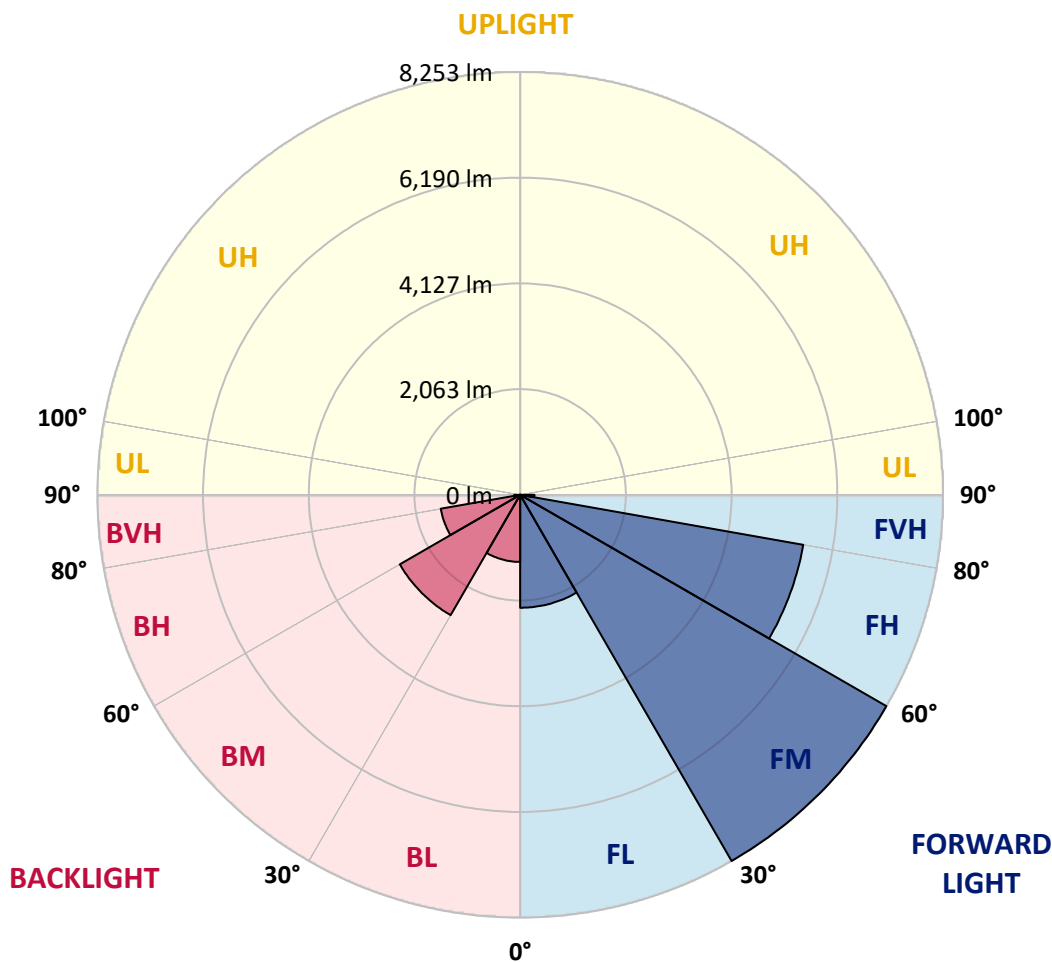
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2204.6	10.0			
FM (30°-60°)	8253.5	37.4			
FH (60°-80°)	5611.1	25.4			G3/7500
FVH (80°-90°)	277.2	1.3			G3/500
BL (0°-30°)	1309.7	5.9	B3/2500		
BM (30°-60°)	2712.4	12.3	B3/5000		
BH (60°-80°)	1572.8	7.1	B3/2500		G3/2500
BVH (80°-90°)	115.8	0.5			G2/225
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





REPORT NUMBER: P509861

CATALOG NUMBER: VERD-M-CA3-150-760-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	3981.0	3981.0	3981.0	3981.0	3981.0	3981.0	3981.0	3981.0	3981.0	3981.0	3981.0
2.5°	4133.5	4177.3	4171.4	4144.4	4163.4	4111.6	4092.6	4063.7	4033.8	4023.8	4006.9
5°	4328.8	4386.7	4375.7	4339.8	4338.8	4265.1	4223.2	4168.4	4122.5	4086.6	4033.8
7.5°	4511.3	4578.0	4568.1	4533.2	4531.2	4446.5	4359.7	4274.0	4221.2	4175.3	4078.7
10°	4704.6	4755.5	4746.5	4701.6	4692.7	4609.9	4508.3	4400.6	4322.9	4259.1	4121.5
12.5°	4883.0	4936.9	4940.8	4885.0	4871.1	4782.4	4693.7	4551.1	4450.4	4377.7	4175.3
15°	5049.5	5113.3	5101.3	5045.5	5030.6	4940.8	4854.1	4722.6	4617.9	4516.2	4263.1
17.5°	5183.1	5243.9	5228.9	5204.0	5196.0	5126.2	5054.5	4911.9	4819.2	4688.7	4398.6
20°	5274.8	5331.6	5337.5	5330.6	5376.4	5310.6	5270.8	5170.1	5068.4	4950.8	4584.0
22.5°	5310.6	5378.4	5436.2	5481.1	5575.8	5565.8	5558.8	5501.0	5401.3	5229.9	4829.2
25°	5321.6	5389.4	5479.1	5589.7	5759.2	5820.0	5863.8	5877.8	5769.1	5633.6	5134.2
27.5°	5323.6	5396.4	5488.1	5666.5	5924.6	6108.0	6212.7	6261.5	6200.7	6093.1	5548.9
30°	5281.7	5356.5	5474.1	5712.3	6054.2	6355.2	6528.7	6744.9	6719.0	6628.3	6068.2
32.5°	5161.1	5228.9	5391.4	5704.3	6182.8	6608.4	6878.5	7253.3	7341.0	7282.2	6667.2
35°	4944.8	5027.6	5237.9	5638.6	6252.6	6854.6	7290.2	7873.3	8031.7	8035.7	7401.8
37.5°	4726.5	4789.3	5036.5	5515.0	6291.4	7072.9	7680.9	8494.2	8724.5	8729.5	8012.8
40°	4494.3	4552.1	4824.2	5349.5	6251.6	7244.3	8044.7	9091.3	9421.2	9390.3	8612.8
42.5°	4193.3	4257.1	4527.2	5124.2	6151.9	7376.9	8414.5	9718.2	10035.2	10070.1	9238.8
45°	3936.1	3987.0	4223.2	4772.4	5969.5	7448.6	8761.4	10387.0	10749.9	10713.0	9906.6
47.5°	3619.2	3694.9	3947.1	4486.3	5641.6	7430.7	9093.3	11048.9	11452.6	11418.7	10485.7
50°	2791.9	2879.6	3465.7	4186.3	5222.9	7290.2	9394.3	11681.8	12183.2	12094.5	11098.7
52.5°	2535.7	2560.6	2793.9	3841.4	4810.3	6971.2	9615.6	12481.2	12778.2	12743.3	11719.7
55°	2379.2	2427.1	2533.7	3164.7	4439.5	6452.9	9769.1	13149.0	13483.9	13320.4	12281.8
57.5°	2241.7	2275.6	2402.1	2709.1	4012.9	5739.2	9724.2	13712.2	14011.2	13782.9	12831.0
60°	2095.1	2117.1	2243.7	2472.9	3552.4	4950.8	9268.7	14293.3	14425.8	14216.5	13295.5
62.5°	1981.5	2002.5	2078.2	2298.5	3193.6	4386.7	8523.1	14334.1	14661.1	14508.6	13690.2
65°	1836.0	1850.0	1944.6	2118.1	2860.6	4050.8	7866.3	13950.4	14547.4	14509.6	13841.7
67.5°	1675.5	1692.5	1782.2	1904.8	2435.0	3655.0	6767.9	13743.1	14067.0	14103.9	13557.7
70°	1487.1	1499.1	1591.8	1680.5	2083.2	3208.5	5380.4	12948.7	13326.4	13325.4	12680.5
72.5°	1283.8	1282.8	1374.5	1468.2	1745.3	2695.2	4212.2	11496.4	12496.1	12421.4	11432.6
75°	1058.5	1073.5	1162.2	1236.0	1452.3	2184.9	2933.4	8327.8	11031.9	11134.6	9866.7
77.5°	676.8	686.8	736.6	812.3	1015.7	1669.5	1913.7	4627.9	7365.9	8885.0	7766.6
80°	494.4	499.4	543.2	587.1	675.8	1016.7	972.8	2011.4	2919.5	4361.7	4764.4
82.5°	336.9	337.9	372.8	382.7	387.7	458.5	461.5	978.8	1390.5	1637.6	2104.1
85°	223.3	185.4	144.5	191.4	196.4	168.4	164.5	441.6	689.7	827.3	779.5
87.5°	49.8	48.8	56.8	57.8	55.8	47.8	39.9	67.8	103.7	102.7	131.6
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°	3981.0	3981.0	3981.0	3981.0	3981.0	3981.0	3981.0	3981.0	3981.0	3981.0	3981.0
2.5°	3991.0	3986.0	3958.1	3899.3	3859.4	3818.5	3795.6	3781.6	3786.6	3763.7	3753.7
5°	4000.9	3976.0	3897.3	3827.5	3764.7	3693.9	3635.1	3627.1	3639.1	3618.2	3606.2
7.5°	4026.8	3974.0	3873.3	3753.7	3649.1	3582.3	3497.6	3454.7	3451.7	3430.8	3434.8
10°	4041.8	3973.0	3838.5	3693.9	3571.3	3452.7	3362.0	3314.2	3311.2	3281.3	3274.3
12.5°	4082.7	3984.0	3797.6	3621.2	3484.6	3326.1	3230.4	3186.6	3181.6	3139.7	3123.8
15°	4145.4	4008.9	3754.7	3536.4	3360.0	3211.5	3096.9	3038.1	3029.1	2980.3	2963.3
17.5°	4245.1	4079.7	3741.8	3459.7	3251.4	3088.9	2954.3	2890.5	2838.7	2811.8	2788.9
20°	4379.7	4167.4	3756.7	3387.9	3114.8	2927.4	2760.0	2676.2	2640.4	2596.5	2599.5
22.5°	4571.1	4304.9	3782.6	3332.1	2991.2	2755.0	2566.6	2472.9	2408.1	2371.2	2373.2
25°	4840.2	4512.2	3833.5	3279.3	2856.7	2566.6	2344.3	2213.8	2148.0	2124.1	2099.1
27.5°	5180.1	4760.4	3954.1	3214.5	2697.2	2353.3	2107.1	1954.6	1887.8	1851.9	1847.0
30°	5616.6	5086.4	4095.6	3166.6	2529.7	2087.2	1813.1	1692.5	1633.7	1582.8	1558.9
32.5°	6148.9	5546.9	4253.1	3118.8	2322.4	1789.2	1541.0	1448.3	1354.6	1289.8	1292.8
35°	6766.9	6048.2	4487.3	3058.0	2079.2	1511.1	1339.6	1220.0	1132.3	1089.4	1069.5
37.5°	7350.0	6562.5	4762.4	2996.2	1807.1	1330.6	1141.3	1030.6	962.9	930.0	936.9
40°	7940.0	7092.8	4999.7	2844.7	1502.1	1167.2	944.9	882.1	855.2	829.3	832.3
42.5°	8468.3	7515.4	5173.1	2676.2	1288.8	979.8	805.4	819.3	835.3	820.3	816.3
45°	9018.5	8009.8	5325.6	2389.2	1110.4	832.3	770.5	809.4	844.2	842.2	837.3
47.5°	9570.7	8468.3	5340.5	2008.4	947.9	782.4	769.5	798.4	844.2	852.2	846.2
50°	10139.8	8948.7	5252.8	1559.9	879.1	788.4	770.5	775.5	826.3	835.3	832.3
52.5°	10770.8	9468.0	5036.5	1186.1	852.2	798.4	773.5	766.5	795.4	811.3	814.3
55°	11350.9	9880.7	4630.9	1047.6	832.3	799.4	795.4	772.5	773.5	765.5	785.4
57.5°	11838.3	10274.4	4170.4	971.8	814.3	790.4	805.4	762.5	750.5	717.7	709.7
60°	12342.6	10594.4	3522.5	920.0	793.4	779.5	780.4	745.6	715.7	667.8	653.9
62.5°	12700.5	10763.8	2893.5	859.2	764.5	762.5	747.6	721.6	694.7	652.9	646.9
65°	12804.1	10674.1	2222.7	795.4	726.6	734.6	707.7	671.8	560.2	508.3	508.3
67.5°	12461.3	10121.9	1645.6	721.6	680.8	696.7	643.9	529.3	471.5	440.6	445.5
70°	11521.3	9229.8	1071.5	614.0	615.0	627.9	531.3	476.4	421.6	402.7	412.7
72.5°	10265.4	7907.1	706.7	489.4	518.3	496.4	485.4	438.6	389.7	367.8	374.8
75°	8459.3	6243.6	490.4	384.7	335.9	423.6	431.6	368.8	330.9	401.7	417.6
77.5°	6683.1	4339.8	404.7	269.1	248.2	313.0	345.9	341.9	547.2	642.9	635.9
80°	3974.0	2498.8	329.9	186.4	175.4	201.3	272.1	392.7	613.0	460.5	438.6
82.5°	1802.1	1136.3	175.4	97.7	114.6	133.6	203.3	488.4	401.7	295.0	278.1
85°	703.7	370.8	69.8	42.9	39.9	49.8	92.7	235.2	161.5	130.6	130.6
87.5°	90.7	66.8	19.9	15.0	13.0	15.9	29.9	130.6	75.8	63.8	61.8
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)