

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: P510309

Luminaire Tested: **VERD-M-CA4-250-727-U-T2**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510309
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-CA4-250-727-U-T2
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 2700K, 1130mA LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29268 lumens
Efficiency: N/A
Efficacy: 116.3 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

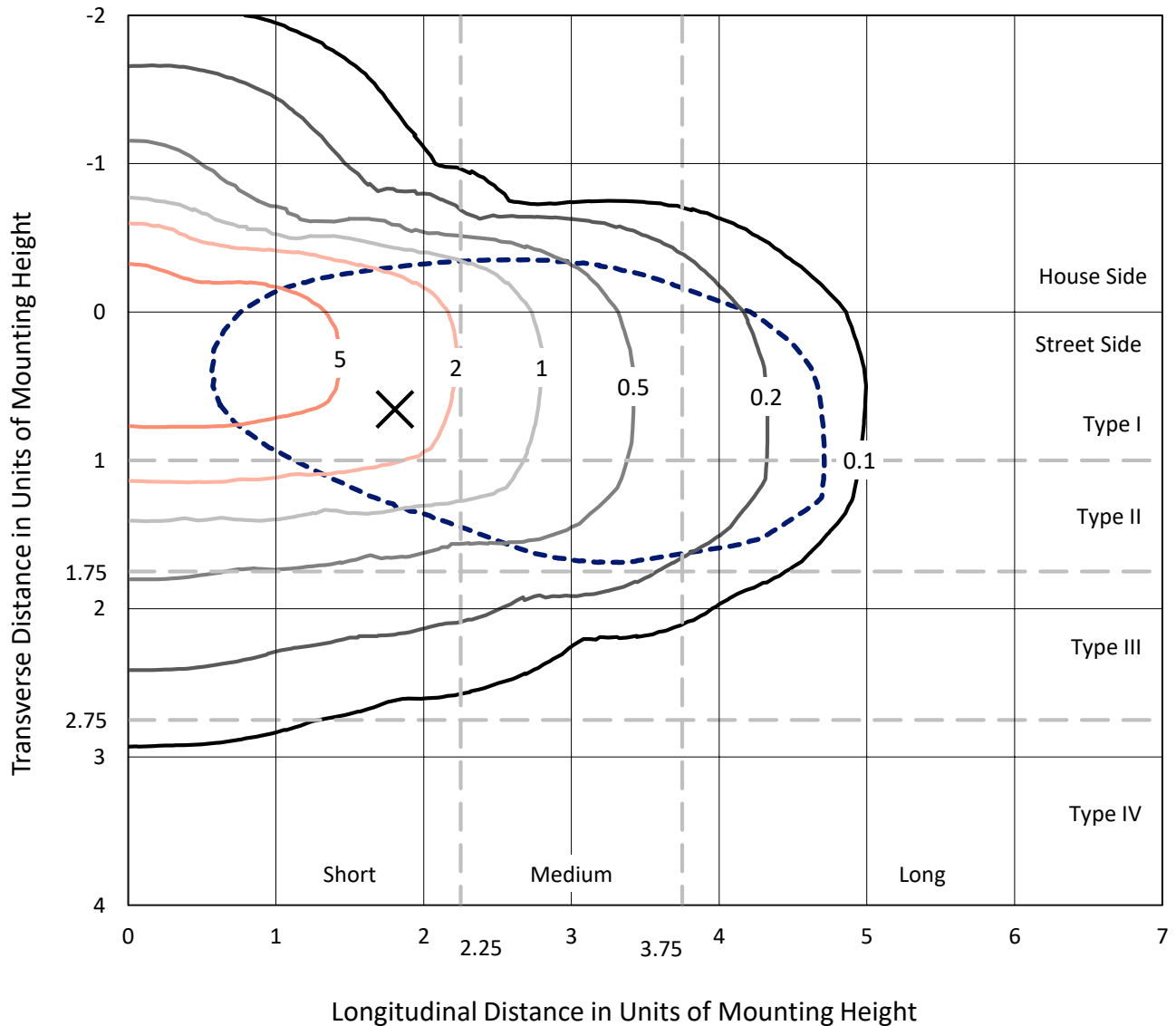
Input Watts (W): 251.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P510309
 CATALOG NUMBER: VERD-M-CA4-250-727-U-T2

Iso-Footcandle Lines of Horizontal Illumination

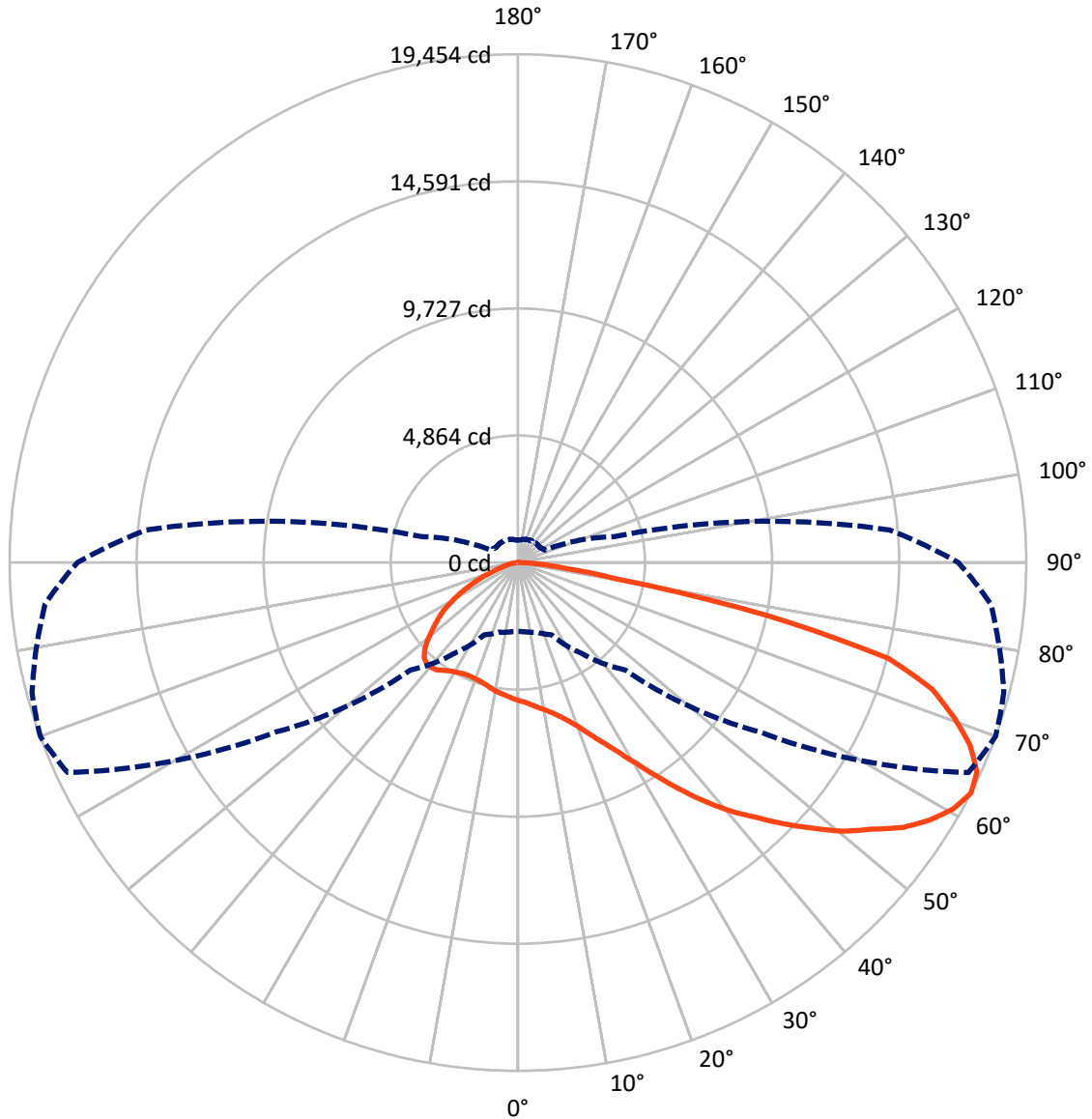
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
 Type II - Short - N/A

REPORT NUMBER: P510309
CATALOG NUMBER: VERD-M-CA4-250-727-U-T2

Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P510309

CATALOG NUMBER: VERD-M-CA4-250-727-U-T2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7577.6	0.0	7577.6
	% Fixture	25.9	0.0	25.9
Street Side	Lumens	21690.4	0.0	21690.4
	% Fixture	74.1	0.0	74.1
Total	Lumens	29268.0	0.0	29268.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	507.4	1.7
10°-20°	1540.8	5.3
20°-30°	2615.0	8.9
30°-40°	3783.8	12.9
40°-50°	4965.3	17.0
50°-60°	5801.8	19.8
60°-70°	5822.4	19.9
70°-80°	3710.1	12.7
80°-90°	521.4	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°	29268.0	100.0
0°-180°	29268.0	100.0

Coefficient of Utilization



REPORT NUMBER: P510309

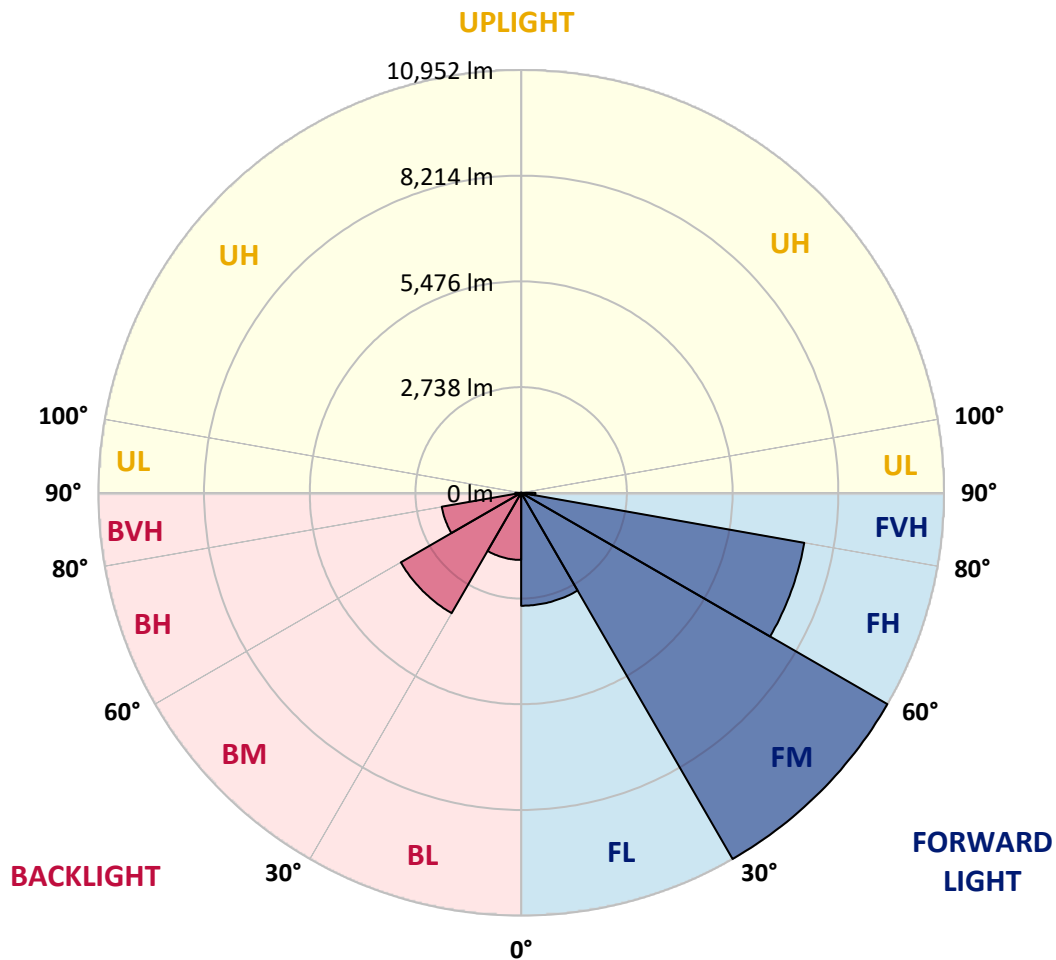
CATALOG NUMBER: VERD-M-CA4-250-727-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2925.3	10.0			
FM (30°-60°)	10951.8	37.4			
FH (60°-80°)	7445.5	25.4			G3/7500
FVH (80°-90°)	367.8	1.3			G3/500
BL (0°-30°)	1737.9	5.9	B3/2500		
BM (30°-60°)	3599.2	12.3	B3/5000		
BH (60°-80°)	2086.9	7.1	B3/2500		G3/2500
BVH (80°-90°)	153.6	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: P510309

CATALOG NUMBER: VERD-M-CA4-250-727-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	5282.5	5282.5	5282.5	5282.5	5282.5	5282.5	5282.5	5282.5	5282.5	5282.5	5282.5
2.5°	5484.8	5543.0	5535.1	5499.4	5524.5	5455.7	5430.6	5392.2	5352.6	5339.3	5316.9
5°	5744.1	5820.8	5806.2	5758.6	5757.3	5659.4	5603.9	5531.1	5470.3	5422.7	5352.6
7.5°	5986.1	6074.7	6061.5	6015.2	6012.5	5900.1	5785.1	5671.3	5601.2	5540.4	5412.1
10°	6242.7	6310.1	6298.2	6238.7	6226.8	6117.0	5982.1	5839.3	5736.1	5651.5	5469.0
12.5°	6479.4	6550.8	6556.1	6482.1	6463.6	6345.8	6228.1	6039.0	5905.4	5808.9	5540.4
15°	6700.3	6784.9	6769.1	6695.0	6675.2	6556.1	6441.1	6266.5	6127.6	5992.7	5656.8
17.5°	6877.5	6958.2	6938.4	6905.3	6894.7	6802.1	6706.9	6517.8	6394.8	6221.5	5836.6
20°	6999.2	7074.6	7082.5	7073.3	7134.1	7046.8	6993.9	6860.3	6725.4	6569.4	6082.6
22.5°	7046.8	7136.8	7213.5	7273.0	7398.6	7385.4	7376.1	7299.4	7167.2	6939.7	6408.0
25°	7061.4	7151.3	7270.3	7417.1	7642.0	7722.7	7780.9	7799.4	7655.2	7475.3	6812.7
27.5°	7064.0	7160.6	7282.2	7519.0	7861.5	8104.9	8243.8	8308.6	8227.9	8085.1	7362.9
30°	7008.5	7107.7	7263.7	7579.8	8033.5	8432.9	8663.0	8950.0	8915.7	8795.3	8052.0
32.5°	6848.4	6938.4	7154.0	7569.2	8204.1	8768.8	9127.3	9624.6	9741.0	9662.9	8846.9
35°	6561.4	6671.2	6950.3	7482.0	8296.7	9095.5	9673.5	10447.2	10657.5	10662.8	9821.6
37.5°	6271.8	6355.1	6683.1	7318.0	8348.3	9385.2	10192.0	11271.2	11576.7	11583.3	10632.4
40°	5963.6	6040.3	6401.4	7098.4	8295.4	9612.7	10674.7	12063.4	12501.2	12460.2	11428.6
42.5°	5564.2	5648.8	6007.3	6799.5	8163.1	9788.6	11165.4	12895.4	13316.0	13362.2	12259.2
45°	5223.0	5290.4	5603.9	6332.6	7921.1	9883.8	11625.7	13782.8	14264.3	14215.3	13145.3
47.5°	4802.4	4902.9	5237.5	5953.0	7485.9	9860.0	12066.1	14661.0	15196.7	15151.7	13913.8
50°	3704.6	3821.0	4598.7	5554.9	6930.4	9673.5	12465.5	15500.9	16166.2	16048.4	14727.2
52.5°	3364.7	3397.8	3707.3	5097.3	6382.9	9250.3	12759.1	16561.6	16955.7	16909.5	15551.1
55°	3157.0	3220.5	3362.1	4199.3	5890.9	8562.5	12962.8	17447.8	17892.2	17675.2	16297.1
57.5°	2974.5	3019.5	3187.5	3594.8	5324.8	7615.5	12903.3	18195.0	18591.8	18288.9	17025.8
60°	2780.1	2809.2	2977.2	3281.4	4713.8	6569.4	12298.9	18966.1	19142.0	18864.3	17642.2
62.5°	2629.3	2657.1	2757.6	3049.9	4237.6	5820.8	11309.6	19020.3	19454.1	19251.8	18165.9
65°	2436.2	2454.7	2580.4	2810.5	3795.9	5375.1	10438.0	18511.1	19303.4	19253.1	18367.0
67.5°	2223.3	2245.8	2364.8	2527.5	3231.1	4850.0	8980.5	18236.0	18665.9	18714.8	17990.0
70°	1973.3	1989.2	2112.2	2229.9	2764.2	4257.5	7139.4	17181.9	17683.2	17681.9	16826.1
72.5°	1703.5	1702.2	1823.9	1948.2	2315.9	3576.3	5589.3	15254.9	16581.5	16482.3	15170.2
75°	1404.6	1424.4	1542.2	1640.0	1927.0	2899.1	3892.4	11050.3	14638.6	14774.8	13092.4
77.5°	898.0	911.3	977.4	1077.9	1347.7	2215.4	2539.4	6140.8	9774.0	11789.7	10305.7
80°	656.0	662.6	720.8	779.0	896.7	1349.1	1290.9	2669.0	3873.9	5787.7	6322.0
82.5°	447.0	448.4	494.7	507.9	514.5	608.4	612.4	1298.8	1845.0	2173.0	2792.0
85°	296.3	246.0	191.8	253.9	260.6	223.5	218.2	585.9	915.2	1097.8	1034.3
87.5°	66.1	64.8	75.4	76.7	74.1	63.5	52.9	89.9	137.6	136.2	174.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P510309

CATALOG NUMBER: VERD-M-CA4-250-727-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5282.5	5282.5	5282.5	5282.5	5282.5	5282.5	5282.5	5282.5	5282.5	5282.5	5282.5
2.5°	5295.7	5289.1	5252.1	5174.0	5121.1	5066.9	5036.5	5017.9	5024.6	4994.1	4980.9
5°	5308.9	5275.9	5171.4	5078.8	4995.5	4901.6	4823.5	4812.9	4828.8	4801.0	4785.2
7.5°	5343.3	5273.2	5139.6	4980.9	4842.0	4753.4	4641.0	4584.1	4580.2	4552.4	4557.7
10°	5363.1	5271.9	5093.3	4901.6	4738.9	4581.5	4461.1	4397.6	4393.7	4354.0	4344.7
12.5°	5417.4	5286.4	5039.1	4805.0	4623.8	4413.5	4286.6	4228.4	4221.7	4166.2	4145.0
15°	5500.7	5319.5	4982.2	4692.6	4458.5	4261.4	4109.3	4031.3	4019.4	3954.6	3932.1
17.5°	5633.0	5413.4	4965.0	4590.7	4314.3	4098.7	3920.2	3835.5	3766.8	3731.1	3700.6
20°	5811.5	5529.8	4984.9	4495.5	4133.1	3884.5	3662.3	3551.2	3503.6	3445.4	3449.3
22.5°	6065.4	5712.3	5019.3	4421.5	3969.1	3655.7	3405.7	3281.4	3195.4	3146.5	3149.1
25°	6422.6	5987.4	5086.7	4351.4	3790.6	3405.7	3110.8	2937.5	2850.2	2818.5	2785.4
27.5°	6873.6	6316.7	5246.8	4265.4	3579.0	3122.7	2796.0	2593.6	2505.0	2457.4	2450.8
30°	7452.9	6749.2	5434.6	4201.9	3356.8	2769.5	2405.8	2245.8	2167.7	2100.3	2068.5
32.5°	8159.1	7360.3	5643.5	4138.4	3081.7	2374.1	2044.7	1921.7	1797.4	1711.4	1715.4
35°	8979.1	8025.5	5954.4	4057.7	2758.9	2005.1	1777.6	1618.9	1502.5	1445.6	1419.2
37.5°	9752.9	8708.0	6319.4	3975.7	2397.9	1765.7	1514.4	1367.6	1277.6	1234.0	1243.2
40°	10535.8	9411.6	6634.2	3774.7	1993.2	1548.8	1253.8	1170.5	1134.8	1100.4	1104.4
42.5°	11236.8	9972.4	6864.3	3551.2	1710.1	1300.1	1068.7	1087.2	1108.3	1088.5	1083.2
45°	11966.9	10628.4	7066.7	3170.3	1473.4	1104.4	1022.4	1074.0	1120.2	1117.6	1111.0
47.5°	12699.6	11236.8	7086.5	2665.0	1257.8	1038.2	1021.0	1059.4	1120.2	1130.8	1122.9
50°	13454.8	11874.3	6970.1	2069.9	1166.5	1046.2	1022.4	1029.0	1096.4	1108.3	1104.4
52.5°	14292.0	12563.4	6683.1	1573.9	1130.8	1059.4	1026.3	1017.1	1055.4	1076.6	1080.6
55°	15061.8	13110.9	6144.8	1390.1	1104.4	1060.7	1055.4	1025.0	1026.3	1015.8	1042.2
57.5°	15708.5	13633.4	5533.8	1289.5	1080.6	1048.8	1068.7	1011.8	995.9	952.3	941.7
60°	16377.8	14057.9	4674.1	1220.8	1052.8	1034.3	1035.6	989.3	949.6	886.1	867.6
62.5°	16852.6	14282.8	3839.5	1140.1	1014.4	1011.8	992.0	957.6	921.9	866.3	858.4
65°	16990.1	14163.7	2949.4	1055.4	964.2	974.8	939.0	891.4	743.3	674.5	674.5
67.5°	16535.2	13431.0	2183.6	957.6	903.3	924.5	854.4	702.3	625.6	584.6	591.2
70°	15287.9	12247.3	1421.8	814.7	816.0	833.2	704.9	632.2	559.5	534.3	547.6
72.5°	13621.5	10492.2	937.7	649.4	687.8	658.7	644.1	581.9	517.1	488.0	497.3
75°	11224.9	8284.8	650.7	510.5	445.7	562.1	572.7	489.4	439.1	533.0	554.2
77.5°	8868.0	5758.6	537.0	357.1	329.3	415.3	458.9	453.7	726.1	853.1	843.8
80°	5273.2	3315.8	437.8	247.3	232.8	267.2	361.1	521.1	813.4	611.0	581.9
82.5°	2391.3	1507.8	232.8	129.6	152.1	177.2	269.8	648.1	533.0	391.5	369.0
85°	933.8	492.0	92.6	56.9	52.9	66.1	123.0	312.1	214.3	173.3	173.3
87.5°	120.4	88.6	26.5	19.8	17.2	21.2	39.7	173.3	100.5	84.6	82.0
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)