

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: P510093

Luminaire Tested: **VERD-M-CA4-200-750-U-T2**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510093
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-CA4-200-750-U-T2
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 5000K, 910mA LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29294 lumens
Efficiency: N/A
Efficacy: 145.2 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

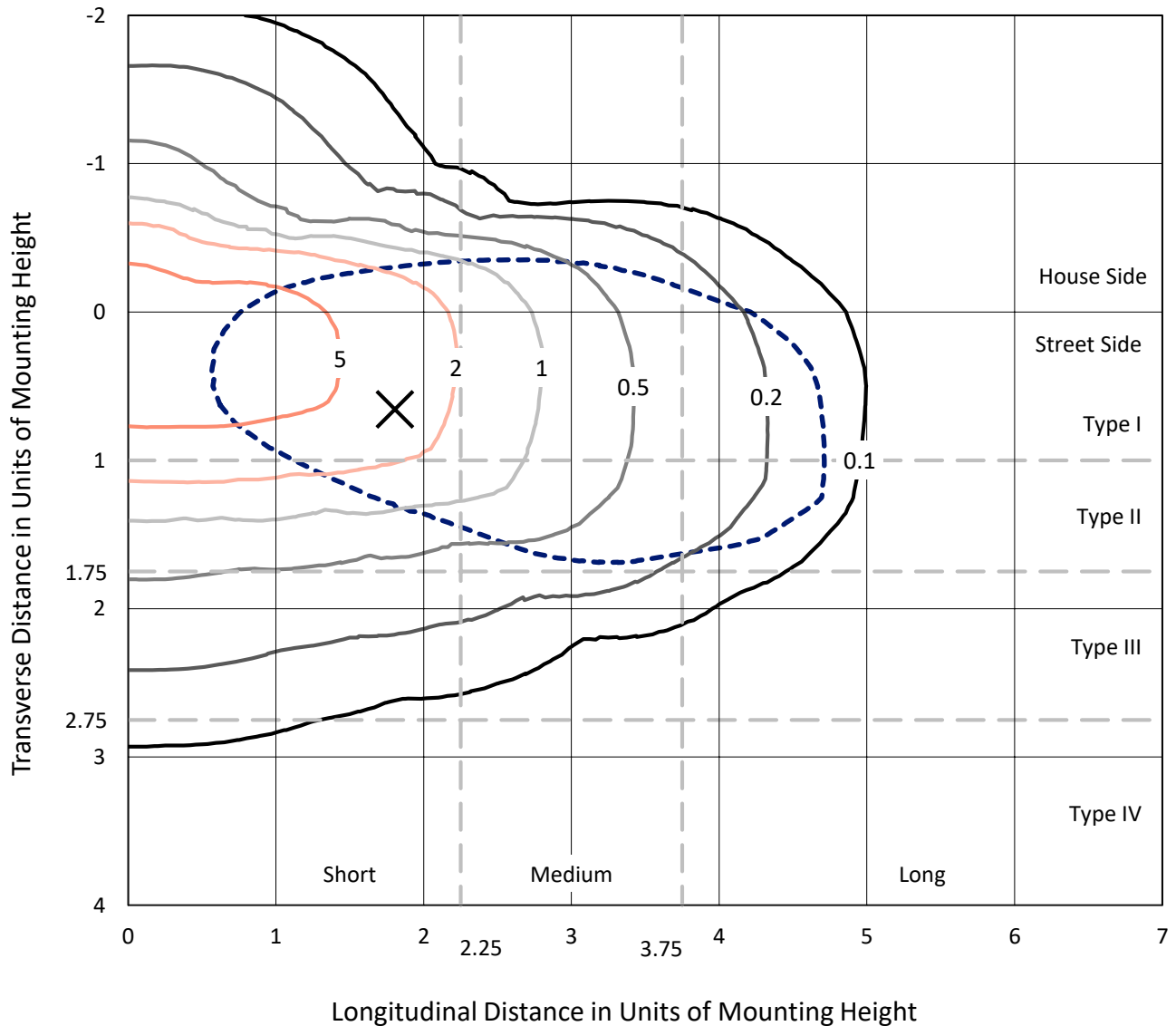
Input Watts (W): 201.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P510093
 CATALOG NUMBER: VERD-M-CA4-200-750-U-T2

Iso-Footcandle Lines of Horizontal Illumination

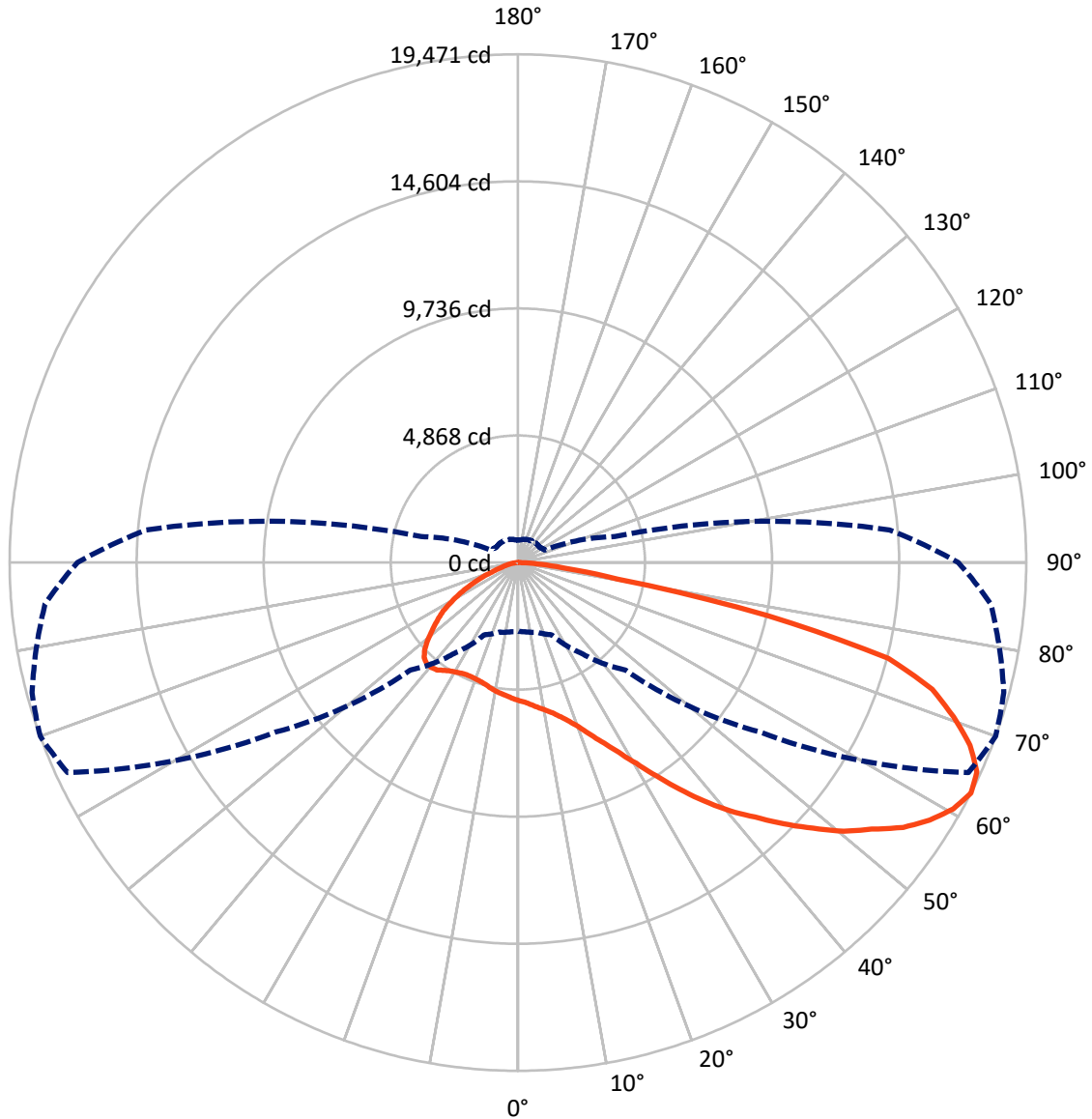
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P510093
CATALOG NUMBER: VERD-M-CA4-200-750-U-T2

Luminous Intensity Polar Plot



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

REPORT NUMBER: P510093

CATALOG NUMBER: VERD-M-CA4-200-750-U-T2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7584.4	0.0	7584.4
	% Fixture	25.9	0.0	25.9
Street Side	Lumens	21709.6	0.0	21709.6
	% Fixture	74.1	0.0	74.1
Total	Lumens	29294.0	0.0	29294.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	507.8	1.7
10°-20°	1542.2	5.3
20°-30°	2617.4	8.9
30°-40°	3787.2	12.9
40°-50°	4969.7	17.0
50°-60°	5807.0	19.8
60°-70°	5827.5	19.9
70°-80°	3713.4	12.7
80°-90°	521.9	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°	29294.0	100.0
0°-180°	29294.0	100.0

Coefficient of Utilization



REPORT NUMBER: P510093

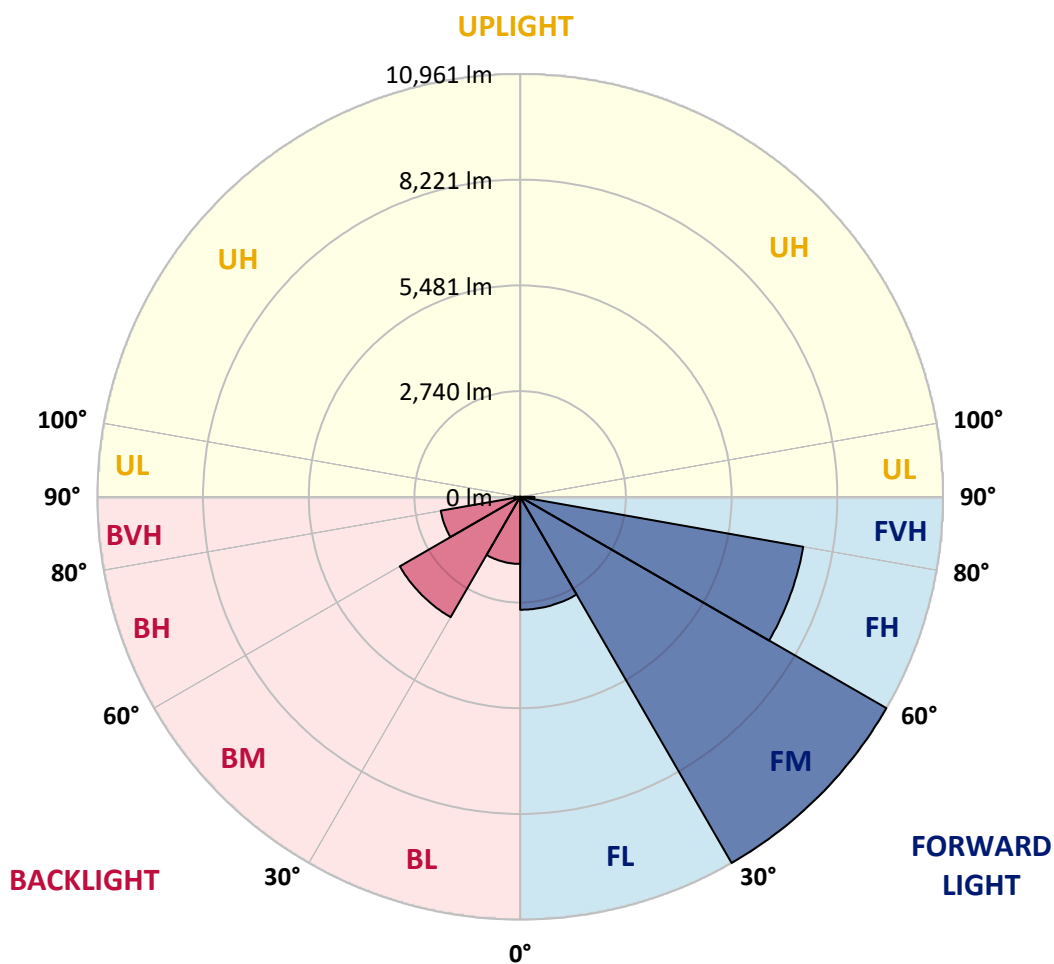
CATALOG NUMBER: VERD-M-CA4-200-750-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2927.9	10.0			
FM	(30°-60°)	10961.5	37.4			
FH	(60°-80°)	7452.1	25.4			G3/7500
FVH	(80°-90°)	368.1	1.3			G3/500
BL	(0°-30°)	1739.4	5.9	B3/2500		
BM	(30°-60°)	3602.4	12.3	B3/5000		
BH	(60°-80°)	2088.8	7.1	B3/2500		G3/2500
BVH	(80°-90°)	153.8	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: P510093

CATALOG NUMBER: VERD-M-CA4-200-750-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	5287.2	5287.2	5287.2	5287.2	5287.2	5287.2	5287.2	5287.2	5287.2	5287.2	5287.2
2.5°	5489.7	5547.9	5540.0	5504.3	5529.4	5460.6	5435.4	5397.0	5357.3	5344.1	5321.6
5°	5749.2	5825.9	5811.4	5763.7	5762.4	5664.4	5608.8	5536.0	5475.1	5427.5	5357.3
7.5°	5991.4	6080.1	6066.9	6020.5	6017.9	5905.4	5790.2	5676.4	5606.2	5545.3	5416.9
10°	6248.2	6315.7	6303.8	6244.3	6232.3	6122.5	5987.4	5844.5	5741.2	5656.5	5473.8
12.5°	6485.2	6556.7	6562.0	6487.8	6469.3	6351.5	6233.7	6044.4	5910.7	5814.0	5545.3
15°	6706.3	6791.0	6775.1	6701.0	6681.1	6562.0	6446.8	6272.1	6133.1	5998.0	5661.8
17.5°	6883.6	6964.4	6944.5	6911.4	6900.8	6808.2	6712.9	6523.6	6400.5	6227.0	5841.8
20°	7005.4	7080.9	7088.8	7079.6	7140.4	7053.1	7000.1	6866.4	6731.4	6575.2	6088.0
22.5°	7053.1	7143.1	7219.9	7279.4	7405.2	7392.0	7382.7	7305.9	7173.5	6945.9	6413.7
25°	7067.6	7157.7	7276.8	7423.7	7648.8	7729.5	7787.8	7806.3	7662.0	7482.0	6818.8
27.5°	7070.3	7166.9	7288.7	7525.7	7868.5	8112.1	8251.1	8316.0	8235.2	8092.2	7369.5
30°	7014.7	7114.0	7270.2	7586.6	8040.6	8440.4	8670.7	8958.0	8923.6	8803.1	8059.2
32.5°	6854.5	6944.5	7160.3	7576.0	8211.4	8776.6	9135.4	9633.1	9749.6	9671.5	8854.7
35°	6567.3	6677.1	6956.4	7488.6	8304.0	9103.6	9682.1	10456.5	10667.0	10672.3	9830.4
37.5°	6277.3	6360.7	6689.0	7324.5	8355.7	9393.5	10201.0	11281.2	11587.0	11593.6	10641.8
40°	5968.9	6045.7	6407.1	7104.7	8302.7	9621.2	10684.2	12074.2	12512.3	12471.3	11438.8
42.5°	5569.1	5653.8	6012.6	6805.5	8170.3	9797.3	11175.3	12906.8	13327.8	13374.1	12270.1
45°	5227.6	5295.1	5608.8	6338.2	7928.1	9892.6	11636.0	13795.1	14276.9	14227.9	13157.0
47.5°	4806.6	4907.2	5242.2	5958.3	7492.6	9868.8	12076.8	14674.1	15210.2	15165.2	13926.1
50°	3707.9	3824.4	4602.8	5559.9	6936.6	9682.1	12476.6	15514.7	16180.5	16062.7	14740.2
52.5°	3367.7	3400.8	3710.5	5101.8	6388.5	9258.5	12770.5	16576.3	16970.8	16924.5	15565.0
55°	3159.9	3223.4	3365.0	4203.0	5896.1	8570.1	12974.3	17463.3	17908.0	17690.9	16311.6
57.5°	2977.2	3022.2	3190.3	3598.0	5329.5	7622.3	12914.8	18211.2	18608.3	18305.2	17041.0
60°	2782.6	2811.7	2979.8	3284.3	4717.9	6575.2	12309.8	18983.0	19159.0	18881.0	17657.9
62.5°	2631.7	2659.5	2760.1	3052.6	4241.4	5825.9	11319.6	19037.2	19471.4	19268.9	18182.1
65°	2438.4	2456.9	2582.7	2813.0	3799.2	5379.8	10447.2	18527.6	19320.5	19270.2	18383.3
67.5°	2225.3	2247.8	2366.9	2529.7	3234.0	4854.3	8988.4	18252.2	18682.5	18731.4	18006.0
70°	1975.1	1991.0	2114.1	2231.9	2766.7	4261.2	7145.7	17197.2	17698.9	17697.6	16841.1
72.5°	1705.0	1703.7	1825.5	1949.9	2317.9	3579.5	5594.3	15268.4	16596.2	16496.9	15183.7
75°	1405.9	1425.7	1543.5	1641.5	1928.7	2901.7	3895.9	11060.2	14651.6	14787.9	13104.1
77.5°	898.8	912.1	978.3	1078.9	1348.9	2217.3	2541.7	6146.3	9782.7	11800.1	10314.9
80°	656.6	663.2	721.5	779.7	897.5	1350.3	1292.0	2671.4	3877.3	5792.8	6327.7
82.5°	447.4	448.8	495.1	508.3	514.9	608.9	612.9	1299.9	1846.7	2175.0	2794.5
85°	296.5	246.2	191.9	254.2	260.8	223.7	218.4	586.4	916.1	1098.7	1035.2
87.5°	66.2	64.9	75.5	76.8	74.1	63.5	53.0	90.0	137.7	136.3	174.7
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: P510093

CATALOG NUMBER: VERD-M-CA4-200-750-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5287.2	5287.2	5287.2	5287.2	5287.2	5287.2	5287.2	5287.2	5287.2	5287.2	5287.2
2.5°	5300.4	5293.8	5256.7	5178.6	5125.7	5071.4	5040.9	5022.4	5029.0	4998.6	4985.3
5°	5313.6	5280.5	5176.0	5083.3	4999.9	4905.9	4827.8	4817.2	4833.1	4805.3	4789.4
7.5°	5348.1	5277.9	5144.2	4985.3	4846.3	4757.7	4645.1	4588.2	4584.2	4556.4	4561.7
10°	5367.9	5276.6	5097.9	4905.9	4743.1	4585.6	4465.1	4401.6	4397.6	4357.9	4348.6
12.5°	5422.2	5291.1	5043.6	4809.3	4627.9	4417.4	4290.4	4232.1	4225.5	4169.9	4148.7
15°	5505.6	5324.2	4986.7	4696.8	4462.4	4265.2	4113.0	4034.9	4023.0	3958.1	3935.6
17.5°	5638.0	5418.2	4969.5	4594.8	4318.2	4102.4	3923.7	3839.0	3770.1	3734.4	3703.9
20°	5816.7	5534.7	4989.3	4499.5	4136.8	3887.9	3665.5	3554.3	3506.7	3448.4	3452.4
22.5°	6070.8	5717.4	5023.7	4425.4	3972.7	3658.9	3408.7	3284.3	3198.2	3149.3	3151.9
25°	6428.3	5992.7	5091.2	4355.2	3793.9	3408.7	3113.5	2940.1	2852.7	2821.0	2787.9
27.5°	6879.7	6322.4	5251.4	4269.2	3582.1	3125.4	2798.5	2595.9	2507.2	2459.6	2453.0
30°	7459.5	6755.2	5439.4	4205.6	3359.7	2772.0	2407.9	2247.8	2169.7	2102.2	2070.4
32.5°	8166.4	7366.8	5648.6	4142.1	3084.4	2376.2	2046.6	1923.4	1799.0	1713.0	1716.9
35°	8987.1	8032.7	5959.6	4061.3	2761.4	2006.8	1779.2	1620.3	1503.8	1446.9	1420.4
37.5°	9761.5	8715.7	6325.0	3979.3	2400.0	1767.2	1515.7	1368.8	1278.8	1235.1	1244.3
40°	10545.2	9420.0	6640.1	3778.1	1994.9	1550.1	1254.9	1171.5	1135.8	1101.4	1105.4
42.5°	11246.8	9981.3	6870.4	3554.3	1711.6	1301.3	1069.6	1088.1	1109.3	1089.5	1084.2
45°	11977.5	10637.9	7072.9	3173.1	1474.7	1105.4	1023.3	1074.9	1121.2	1118.6	1112.0
47.5°	12710.9	11246.8	7092.8	2667.4	1258.9	1039.2	1022.0	1060.3	1121.2	1131.8	1123.9
50°	13466.8	11884.9	6976.3	2071.7	1167.6	1047.1	1023.3	1029.9	1097.4	1109.3	1105.4
52.5°	14304.7	12574.6	6689.0	1575.3	1131.8	1060.3	1027.3	1018.0	1056.4	1077.6	1081.5
55°	15075.2	13122.6	6150.3	1391.3	1105.4	1061.7	1056.4	1025.9	1027.3	1016.7	1043.1
57.5°	15722.5	13645.5	5538.7	1290.7	1081.5	1049.8	1069.6	1012.7	996.8	953.1	942.5
60°	16392.3	14070.4	4678.2	1221.8	1053.7	1035.2	1036.5	990.2	950.5	886.9	868.4
62.5°	16867.6	14295.5	3842.9	1141.1	1015.3	1012.7	992.8	958.4	922.7	867.1	859.1
65°	17005.2	14176.3	2952.0	1056.4	965.0	975.6	939.9	892.2	744.0	675.1	675.1
67.5°	16549.9	13442.9	2185.6	958.4	904.1	925.3	855.2	702.9	626.1	585.1	591.7
70°	15301.5	12258.2	1423.1	815.4	816.8	834.0	705.6	632.8	560.0	534.8	548.0
72.5°	13633.6	10501.5	938.6	650.0	688.4	659.2	644.7	582.5	517.6	488.5	497.7
75°	11234.9	8292.1	651.3	511.0	446.1	562.6	573.2	489.8	439.5	533.5	554.7
77.5°	8875.9	5763.7	537.5	357.4	329.6	415.7	459.4	454.1	726.8	853.8	844.6
80°	5277.9	3318.7	438.2	247.5	233.0	267.4	361.4	521.6	814.1	611.6	582.5
82.5°	2393.4	1509.1	233.0	129.7	152.2	177.4	270.1	648.7	533.5	391.8	369.3
85°	934.6	492.4	92.7	56.9	53.0	66.2	123.1	312.4	214.5	173.4	173.4
87.5°	120.5	88.7	26.5	19.9	17.2	21.2	39.7	173.4	100.6	84.7	82.1
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)