

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: P510149

Luminaire Tested: **VERD-M-CA4-210-760-U-T2**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510149
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-CA4-210-760-U-T2
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 5700K, 960mA LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30012 lumens
Efficiency: N/A
Efficacy: 140.5 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

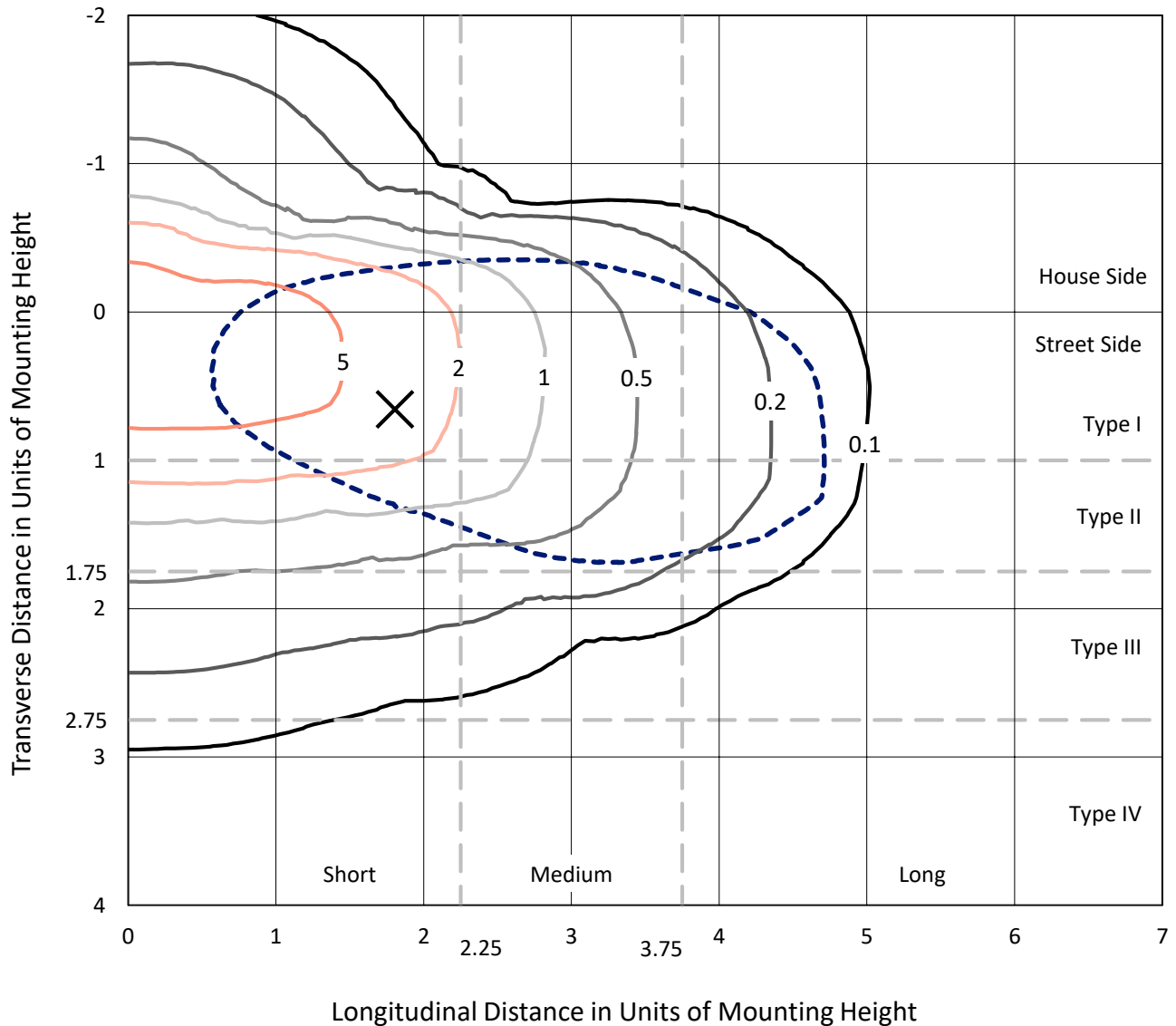
Input Watts (W): 213.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

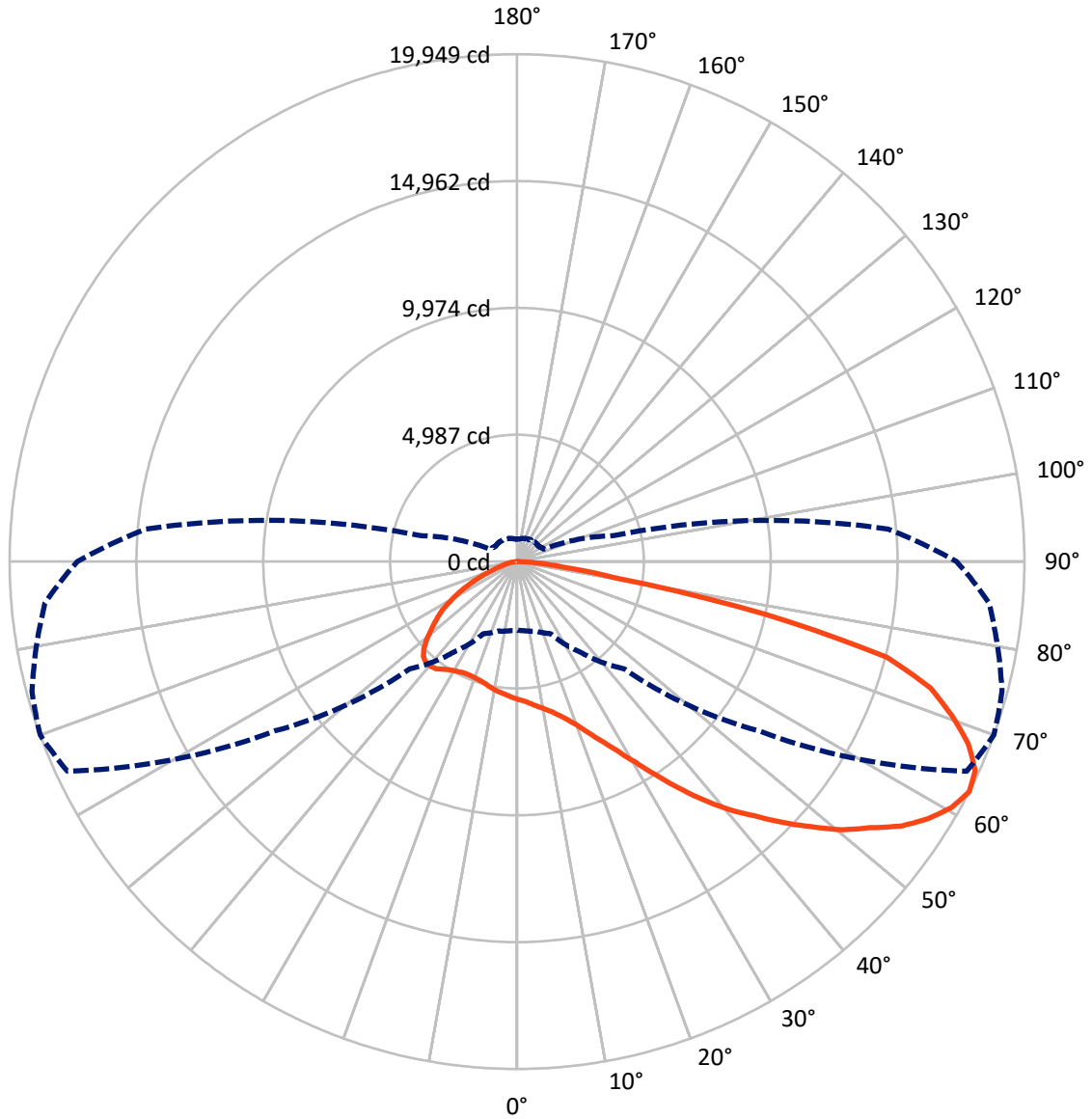
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 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	7770.3	0.0	7770.3
	% Fixture	25.9	0.0	25.9
Street Side	Lumens	22241.7	0.0	22241.7
	% Fixture	74.1	0.0	74.1
Total	Lumens	30012.0	0.0	30012.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	520.3	1.7
10°-20°	1580.0	5.3
20°-30°	2681.5	8.9
30°-40°	3880.0	12.9
40°-50°	5091.5	17.0
50°-60°	5949.3	19.8
60°-70°	5970.4	19.9
70°-80°	3804.4	12.7
80°-90°	534.6	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°	30012.0	100.0
0°-180°	30012.0	100.0

Coefficient of Utilization



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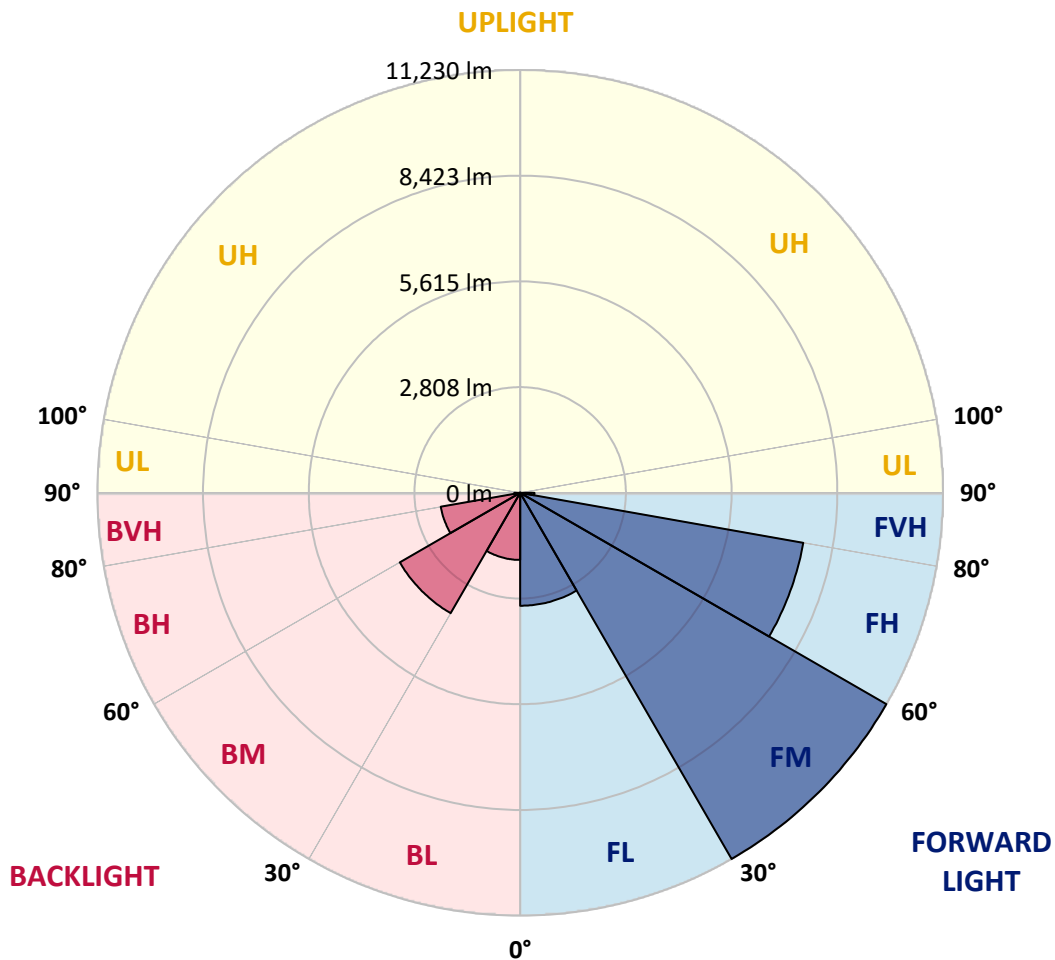
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2999.7	10.0			
FM	(30°-60°)	11230.2	37.4			
FH	(60°-80°)	7634.7	25.4			G4/12000
FVH	(80°-90°)	377.1	1.3			G3/500
BL	(0°-30°)	1782.1	5.9	B3/2500		
BM	(30°-60°)	3690.7	12.3	B3/5000		
BH	(60°-80°)	2140.0	7.1	B3/2500		G3/2500
BVH	(80°-90°)	157.5	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-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	5416.8	5416.8	5416.8	5416.8	5416.8	5416.8	5416.8	5416.8	5416.8	5416.8	5416.8
2.5°	5624.3	5683.9	5675.8	5639.2	5664.9	5594.4	5568.6	5529.3	5488.6	5475.1	5452.0
5°	5890.1	5968.7	5953.8	5905.0	5903.6	5803.3	5746.3	5671.7	5609.3	5560.5	5488.6
7.5°	6138.3	6229.1	6215.6	6168.1	6165.4	6050.1	5932.1	5815.5	5743.6	5681.2	5549.7
10°	6401.4	6470.5	6458.3	6397.3	6385.1	6272.5	6134.2	5987.7	5881.9	5795.1	5608.0
12.5°	6644.1	6717.4	6722.8	6646.8	6627.9	6507.2	6386.5	6192.5	6055.5	5956.5	5681.2
15°	6870.6	6957.4	6941.1	6865.2	6844.9	6722.8	6604.8	6425.8	6283.4	6145.0	5800.6
17.5°	7052.4	7135.1	7114.7	7080.8	7070.0	6975.1	6877.4	6683.5	6557.3	6379.7	5985.0
20°	7177.1	7254.4	7262.6	7253.1	7315.5	7226.0	7171.7	7034.7	6896.4	6736.4	6237.3
22.5°	7226.0	7318.2	7396.8	7457.9	7586.7	7573.1	7563.7	7485.0	7349.4	7116.1	6570.9
25°	7240.9	7333.1	7455.2	7605.7	7836.3	7919.0	7978.7	7997.6	7849.8	7665.4	6985.9
27.5°	7243.6	7342.6	7467.4	7710.1	8061.4	8310.9	8453.3	8519.8	8437.1	8290.6	7550.1
30°	7186.6	7288.3	7448.4	7772.5	8237.7	8647.3	8883.3	9177.6	9142.3	9018.9	8256.7
32.5°	7022.5	7114.7	7335.8	7761.7	8412.6	8991.8	9359.3	9869.2	9988.6	9908.6	9071.8
35°	6728.2	6840.8	7126.9	7672.1	8507.6	9326.7	9919.4	10712.8	10928.4	10933.9	10071.3
37.5°	6431.2	6516.6	6853.0	7504.0	8560.5	9623.8	10451.0	11557.7	11871.0	11877.8	10902.7
40°	6115.2	6193.9	6564.1	7278.8	8506.2	9857.0	10946.1	12370.1	12819.0	12777.0	11719.1
42.5°	5705.6	5792.4	6160.0	6972.3	8370.6	10037.4	11449.2	13223.2	13654.4	13701.9	12570.8
45°	5355.7	5424.9	5746.3	6493.6	8122.4	10135.0	11921.2	14133.2	14626.9	14576.7	13479.5
47.5°	4924.4	5027.5	5370.6	6104.4	7676.2	10110.6	12372.8	15033.7	15583.0	15536.9	14267.5
50°	3798.8	3918.1	4715.6	5696.1	7106.6	9919.4	12782.4	15894.9	16577.1	16456.4	15101.5
52.5°	3450.2	3484.1	3801.5	5226.9	6545.1	9485.4	13083.5	16982.6	17386.8	17339.3	15946.5
55°	3237.3	3302.4	3447.5	4306.0	6040.6	8780.2	13292.3	17891.3	18347.0	18124.6	16711.4
57.5°	3050.1	3096.3	3268.5	3686.2	5460.2	7809.1	13231.3	18657.5	19064.4	18753.8	17458.6
60°	2850.8	2880.6	3052.9	3364.8	4833.6	6736.4	12611.5	19448.2	19628.6	19343.8	18090.6
62.5°	2696.2	2724.7	2827.7	3127.4	4345.3	5968.7	11597.1	19503.8	19948.7	19741.2	18627.7
65°	2498.2	2517.1	2646.0	2882.0	3892.4	5511.7	10703.3	18981.7	19794.1	19742.5	18833.9
67.5°	2279.8	2302.9	2424.9	2591.7	3313.3	4973.3	9208.7	18699.6	19140.4	19190.5	18447.3
70°	2023.5	2039.8	2165.9	2286.6	2834.5	4365.7	7320.9	17618.7	18132.7	18131.3	17253.9
72.5°	1746.8	1745.5	1870.2	1997.7	2374.7	3667.2	5731.4	15642.7	17003.0	16901.2	15555.9
75°	1440.3	1460.7	1581.4	1681.7	1976.0	2972.8	3991.4	11331.2	15010.7	15150.4	13425.2
77.5°	920.9	934.4	1002.2	1105.3	1382.0	2271.7	2603.9	6296.9	10022.5	12089.4	10567.7
80°	672.7	679.5	739.1	798.8	919.5	1383.3	1323.7	2736.9	3972.4	5934.8	6482.7
82.5°	458.4	459.8	507.2	520.8	527.6	623.9	627.9	1331.8	1891.9	2228.3	2863.0
85°	303.8	252.3	196.7	260.4	267.2	229.2	223.8	600.8	938.5	1125.7	1060.6
87.5°	67.8	66.5	77.3	78.7	75.9	65.1	54.2	92.2	141.0	139.7	179.0
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°	5416.8	5416.8	5416.8	5416.8	5416.8	5416.8	5416.8	5416.8	5416.8	5416.8	5416.8
2.5°	5430.3	5423.5	5385.6	5305.5	5251.3	5195.7	5164.5	5145.5	5152.3	5121.1	5107.5
5°	5443.9	5410.0	5302.8	5207.9	5122.5	5026.2	4946.1	4935.3	4951.6	4923.1	4906.8
7.5°	5479.1	5407.3	5270.3	5107.5	4965.1	4874.3	4759.0	4700.7	4696.6	4668.1	4673.5
10°	5499.5	5405.9	5222.8	5026.2	4859.3	4698.0	4574.5	4509.4	4505.4	4464.7	4455.2
12.5°	5555.1	5420.8	5167.2	4927.2	4741.4	4525.7	4395.5	4335.8	4329.1	4272.1	4250.4
15°	5640.5	5454.7	5108.9	4811.9	4571.8	4369.7	4213.8	4133.8	4121.6	4055.1	4032.0
17.5°	5776.2	5551.0	5091.3	4707.4	4424.0	4202.9	4019.8	3933.0	3862.5	3825.9	3794.7
20°	5959.2	5670.4	5111.6	4609.8	4238.2	3983.2	3755.4	3641.5	3592.6	3533.0	3537.0
22.5°	6219.6	5857.5	5146.9	4533.9	4070.0	3748.6	3492.3	3364.8	3276.6	3226.5	3229.2
25°	6585.8	6139.6	5216.0	4462.0	3886.9	3492.3	3189.8	3012.2	2922.7	2890.1	2856.2
27.5°	7048.3	6477.3	5380.1	4373.8	3669.9	3202.0	2867.1	2659.6	2568.7	2519.9	2513.1
30°	7642.3	6920.8	5572.7	4308.7	3442.1	2839.9	2467.0	2302.9	2222.8	2153.7	2121.1
32.5°	8366.5	7547.4	5787.0	4243.6	3160.0	2434.4	2096.7	1970.6	1843.1	1755.0	1759.0
35°	9207.4	8229.6	6105.7	4160.9	2829.1	2056.0	1822.8	1660.0	1540.7	1482.4	1455.2
37.5°	10000.8	8929.4	6480.0	4076.8	2458.8	1810.6	1552.9	1402.3	1310.1	1265.4	1274.8
40°	10803.7	9650.9	6802.8	3870.7	2043.8	1588.1	1285.7	1200.3	1163.6	1128.4	1132.4
42.5°	11522.5	10225.9	7038.8	3641.5	1753.6	1333.2	1095.8	1114.8	1136.5	1116.2	1110.7
45°	12271.1	10898.6	7246.3	3250.9	1510.8	1132.4	1048.4	1101.3	1148.7	1146.0	1139.2
47.5°	13022.4	11522.5	7266.6	2732.8	1289.8	1064.6	1047.0	1086.3	1148.7	1159.6	1151.4
50°	13796.8	12176.2	7147.3	2122.5	1196.2	1072.8	1048.4	1055.1	1124.3	1136.5	1132.4
52.5°	14655.3	12882.8	6853.0	1613.9	1159.6	1086.3	1052.4	1042.9	1082.3	1104.0	1108.0
55°	15444.7	13444.2	6301.0	1425.4	1132.4	1087.7	1082.3	1051.1	1052.4	1041.6	1068.7
57.5°	16107.9	13979.9	5674.4	1322.3	1108.0	1075.5	1095.8	1037.5	1021.2	976.5	965.6
60°	16794.1	14415.3	4792.9	1251.8	1079.6	1060.6	1061.9	1014.5	973.8	908.7	889.7
62.5°	17281.0	14645.8	3937.1	1169.1	1040.2	1037.5	1017.2	981.9	945.3	888.3	880.2
65°	17422.0	14523.8	3024.4	1082.3	988.7	999.5	962.9	914.1	762.2	691.7	691.7
67.5°	16955.5	13772.4	2239.1	981.9	926.3	948.0	876.1	720.2	641.5	599.5	606.2
70°	15676.6	12558.6	1457.9	835.4	836.8	854.4	722.9	648.3	573.7	547.9	561.5
72.5°	13967.7	10758.9	961.6	665.9	705.2	675.4	660.5	596.7	530.3	500.4	509.9
75°	11510.3	8495.4	667.3	523.5	457.0	576.4	587.2	501.8	450.3	546.6	568.3
77.5°	9093.5	5905.0	550.6	366.2	337.7	425.9	470.6	465.2	744.6	874.8	865.3
80°	5407.3	3400.0	448.9	253.6	238.7	274.0	370.2	534.4	834.1	626.6	596.7
82.5°	2452.0	1546.1	238.7	132.9	156.0	181.7	276.7	664.5	546.6	401.4	378.4
85°	957.5	504.5	94.9	58.3	54.2	67.8	126.1	320.1	219.7	177.7	177.7
87.5°	123.4	90.9	27.1	20.3	17.6	21.7	40.7	177.7	103.1	86.8	84.1
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)