

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: P510077

Luminaire Tested: **VERD-M-CA4-200-730-U-T2**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510077
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-CA4-200-730-U-T2
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 3000K, 910mA LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28245 lumens
Efficiency: N/A
Efficacy: 140.0 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

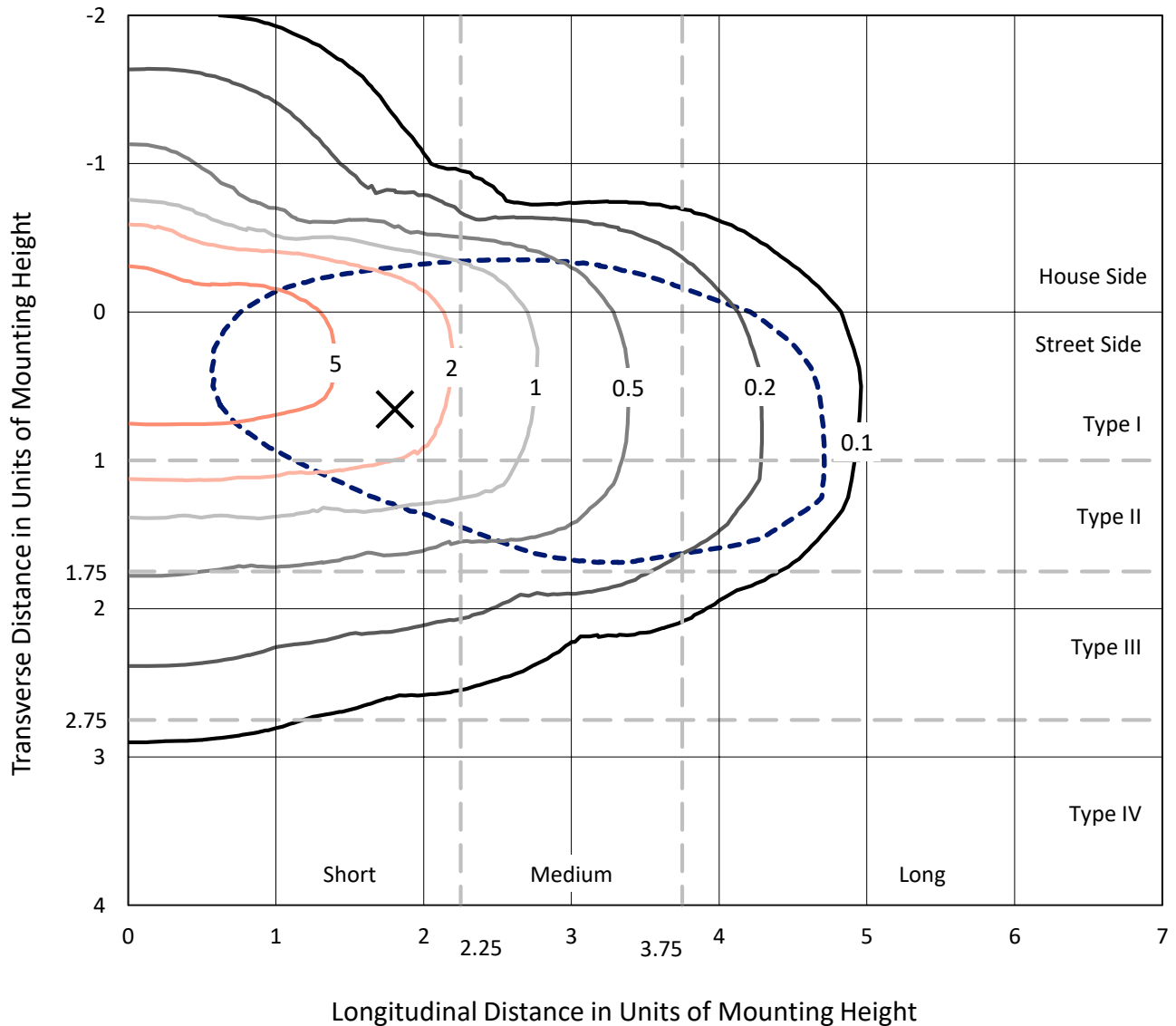
Input Watts (W): 201.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

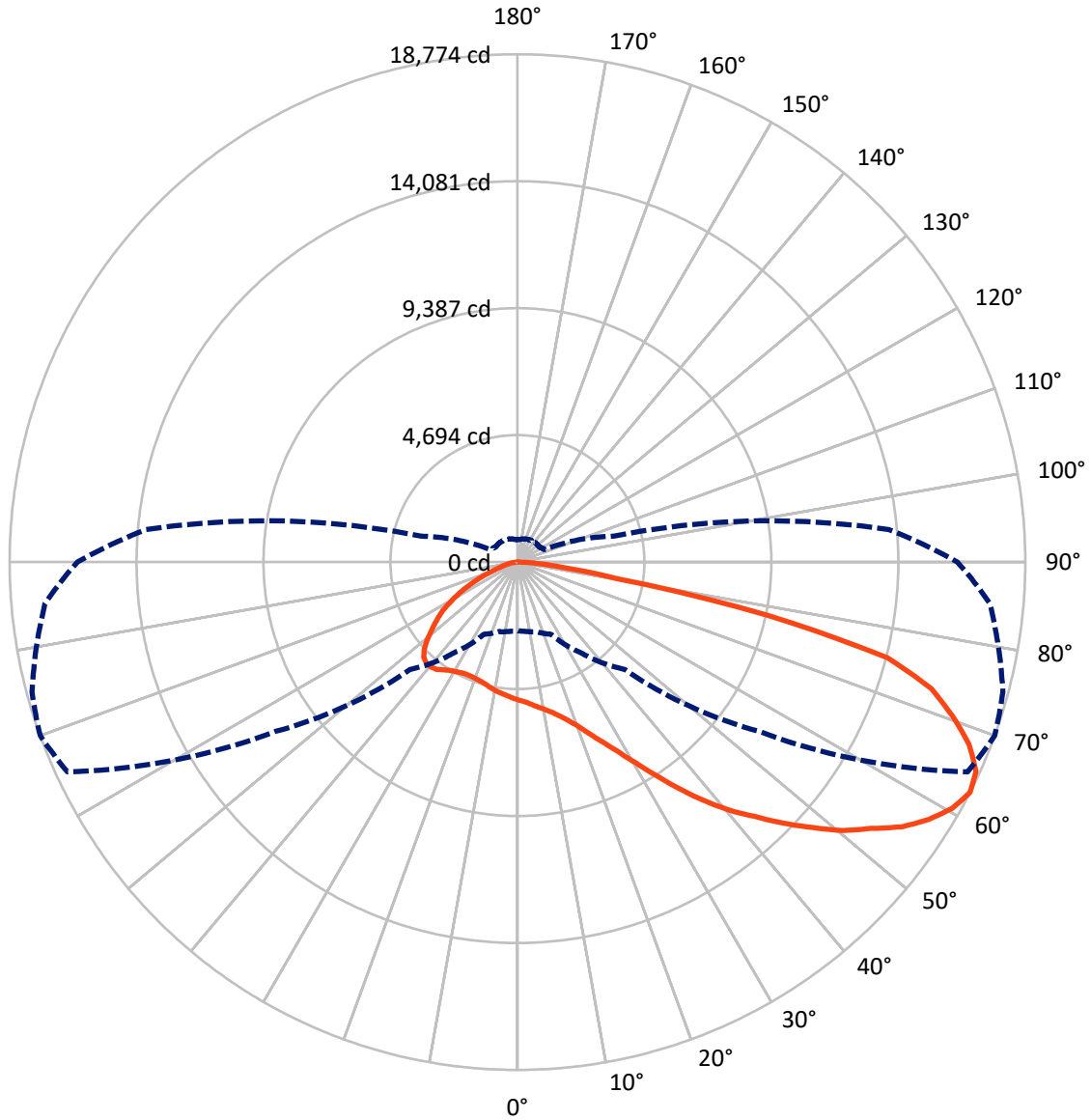
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 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	7312.8	0.0	7312.8
	% Fixture	25.9	0.0	25.9
Street Side	Lumens	20932.2	0.0	20932.2
	% Fixture	74.1	0.0	74.1
Total	Lumens	28245.0	0.0	28245.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	489.6	1.7
10°-20°	1487.0	5.3
20°-30°	2523.6	8.9
30°-40°	3651.6	12.9
40°-50°	4791.7	17.0
50°-60°	5599.0	19.8
60°-70°	5618.8	19.9
70°-80°	3580.4	12.7
80°-90°	503.2	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°	28245.0	100.0
0°-180°	28245.0	100.0

Coefficient of Utilization



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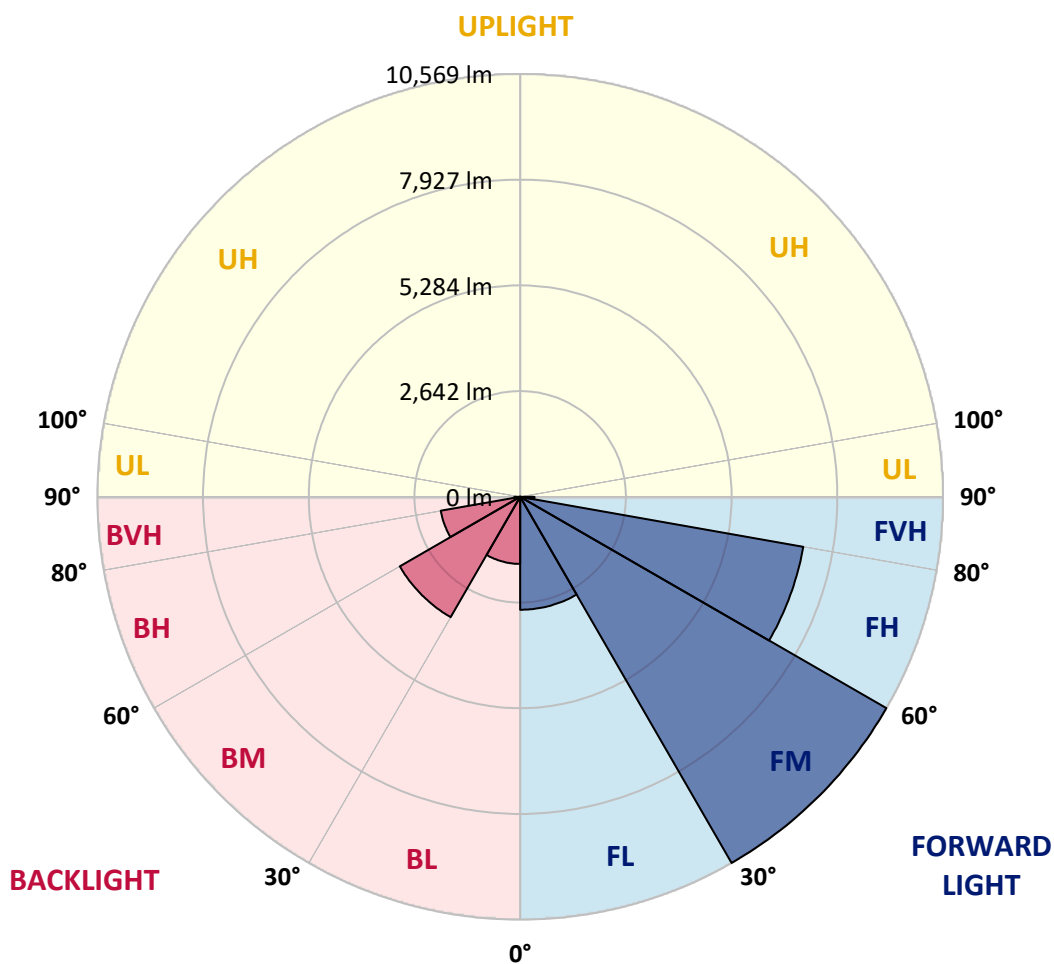
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2823.1	10.0			
FM (30°-60°)	10569.0	37.4			
FH (60°-80°)	7185.2	25.4			G3/7500
FVH (80°-90°)	354.9	1.3			G3/500
BL (0°-30°)	1677.2	5.9	B3/2500		
BM (30°-60°)	3473.4	12.3	B3/5000		
BH (60°-80°)	2014.0	7.1	B3/2500		G3/2500
BVH (80°-90°)	148.2	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	5097.8	5097.8	5097.8	5097.8	5097.8	5097.8	5097.8	5097.8	5097.8	5097.8	5097.8
2.5°	5293.1	5349.3	5341.6	5307.2	5331.4	5265.0	5240.8	5203.8	5165.5	5152.7	5131.0
5°	5543.3	5617.3	5603.3	5557.3	5556.1	5461.6	5408.0	5337.8	5279.1	5233.1	5165.5
7.5°	5776.9	5862.4	5849.6	5804.9	5802.4	5693.9	5582.9	5473.1	5405.4	5346.7	5222.9
10°	6024.5	6089.6	6078.1	6020.7	6009.2	5903.2	5773.0	5635.2	5535.6	5453.9	5277.8
12.5°	6252.9	6321.9	6327.0	6255.5	6237.6	6124.0	6010.4	5827.9	5699.0	5605.8	5346.7
15°	6466.1	6547.8	6532.5	6461.0	6441.9	6327.0	6215.9	6047.5	5913.4	5783.2	5459.0
17.5°	6637.1	6715.0	6695.9	6663.9	6653.7	6564.4	6472.5	6290.0	6171.3	6004.1	5632.6
20°	6754.6	6827.3	6835.0	6826.0	6884.8	6800.5	6749.5	6620.5	6490.4	6339.7	5870.0
22.5°	6800.5	6887.3	6961.3	7018.8	7140.0	7127.3	7118.3	7044.3	6916.7	6697.1	6184.0
25°	6814.6	6901.3	7016.2	7157.9	7374.9	7452.7	7508.9	7526.8	7387.6	7214.1	6574.6
27.5°	6817.1	6910.3	7027.7	7256.2	7586.8	7821.6	7955.6	8018.2	7940.3	7802.5	7105.6
30°	6763.5	6859.2	7009.8	7314.9	7752.7	8138.2	8360.2	8637.2	8604.0	8487.9	7770.6
32.5°	6609.1	6695.9	6903.9	7304.7	7917.3	8462.4	8808.2	9288.2	9400.5	9325.2	8537.7
35°	6332.1	6438.0	6707.3	7220.4	8006.7	8777.6	9335.4	10082.1	10285.0	10290.1	9478.3
37.5°	6052.6	6133.0	6449.5	7062.2	8056.5	9057.1	9835.7	10877.2	11172.1	11178.5	10260.8
40°	5755.2	5829.2	6177.6	6850.3	8005.4	9276.7	10301.6	11641.8	12064.3	12024.7	11029.1
42.5°	5369.7	5451.4	5797.3	6561.8	7877.8	9446.4	10775.1	12444.6	12850.5	12895.2	11830.7
45°	5040.4	5105.5	5408.0	6111.3	7644.2	9538.3	11219.3	13301.1	13765.7	13718.5	12685.9
47.5°	4634.5	4731.5	5054.4	5745.0	7224.3	9515.4	11644.3	14148.6	14665.5	14622.1	13427.4
50°	3575.1	3687.4	4437.9	5360.8	6688.2	9335.4	12029.8	14959.1	15601.1	15487.5	14212.4
52.5°	3247.1	3279.0	3577.7	4919.1	6159.8	8927.0	12313.2	15982.7	16363.1	16318.4	15007.6
55°	3046.7	3108.0	3244.5	4052.5	5685.0	8263.2	12509.7	16837.9	17266.8	17057.4	15727.5
57.5°	2870.6	2914.0	3076.1	3469.2	5138.7	7349.4	12452.3	17559.1	17942.0	17649.7	16430.7
60°	2682.9	2711.0	2873.1	3166.7	4549.0	6339.7	11869.0	18303.2	18472.9	18204.9	17025.5
62.5°	2537.4	2564.2	2661.2	2943.3	4089.5	5617.3	10914.3	18355.5	18774.2	18578.9	17531.0
65°	2351.1	2368.9	2490.2	2712.3	3663.2	5187.2	10073.1	17864.1	18628.7	18580.2	17725.0
67.5°	2145.6	2167.3	2282.2	2439.1	3118.2	4680.5	8666.6	17598.6	18013.4	18060.7	17361.2
70°	1904.3	1919.7	2038.4	2152.0	2667.6	4108.6	6889.9	16581.4	17065.1	17063.8	16238.0
72.5°	1644.0	1642.7	1760.1	1880.1	2234.9	3451.3	5394.0	14721.7	16001.9	15906.2	14640.0
75°	1355.5	1374.7	1488.3	1582.7	1859.7	2797.8	3756.4	10664.1	14126.9	14258.4	12634.8
77.5°	866.7	879.4	943.2	1040.2	1300.6	2137.9	2450.6	5926.2	9432.4	11377.6	9945.5
80°	633.1	639.5	695.6	751.8	865.4	1301.9	1245.7	2575.7	3738.5	5585.4	6101.1
82.5°	431.4	432.7	477.4	490.1	496.5	587.1	591.0	1253.4	1780.5	2097.1	2694.4
85°	285.9	237.4	185.1	245.1	251.4	215.7	210.6	565.4	883.2	1059.4	998.1
87.5°	63.8	62.5	72.8	74.0	71.5	61.3	51.1	86.8	132.7	131.5	168.5
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°	5097.8	5097.8	5097.8	5097.8	5097.8	5097.8	5097.8	5097.8	5097.8	5097.8	5097.8
2.5°	5110.6	5104.2	5068.5	4993.2	4942.1	4889.8	4860.4	4842.6	4848.9	4819.6	4806.8
5°	5123.4	5091.5	4990.6	4901.3	4820.9	4730.2	4654.9	4644.7	4660.0	4633.2	4617.9
7.5°	5156.5	5088.9	4960.0	4806.8	4672.8	4587.3	4478.8	4423.9	4420.1	4393.3	4398.4
10°	5175.7	5087.6	4915.3	4730.2	4573.2	4421.4	4305.2	4243.9	4240.1	4201.8	4192.9
12.5°	5228.0	5101.7	4863.0	4637.1	4462.2	4259.3	4136.7	4080.6	4074.2	4020.6	4000.2
15°	5308.4	5133.6	4808.1	4528.6	4302.7	4112.5	3965.7	3890.4	3878.9	3816.4	3794.7
17.5°	5436.1	5224.2	4791.5	4430.3	4163.5	3955.5	3783.2	3701.5	3635.1	3600.6	3571.3
20°	5608.4	5336.5	4810.6	4338.4	3988.7	3748.7	3534.3	3427.1	3381.1	3325.0	3328.8
22.5°	5853.4	5512.7	4843.8	4266.9	3830.4	3527.9	3286.7	3166.7	3083.7	3036.5	3039.0
25°	6198.1	5778.1	4908.9	4199.3	3658.1	3286.7	3002.0	2834.8	2750.6	2720.0	2688.0
27.5°	6633.3	6096.0	5063.4	4116.3	3453.9	3013.5	2698.3	2503.0	2417.4	2371.5	2365.1
30°	7192.4	6513.3	5244.6	4055.0	3239.4	2672.7	2321.7	2167.3	2092.0	2026.9	1996.2
32.5°	7873.9	7103.0	5446.3	3993.8	2973.9	2291.1	1973.3	1854.6	1734.6	1651.6	1655.5
35°	8665.3	7745.0	5746.2	3915.9	2662.5	1935.0	1715.4	1562.3	1450.0	1395.1	1369.5
37.5°	9412.0	8403.6	6098.5	3836.8	2314.1	1704.0	1461.4	1319.8	1233.0	1190.9	1199.8
40°	10167.6	9082.7	6402.3	3642.8	1923.5	1494.6	1210.0	1129.6	1095.1	1061.9	1065.8
42.5°	10844.1	9623.9	6624.4	3427.1	1650.3	1254.7	1031.3	1049.2	1069.6	1050.5	1045.3
45°	11548.6	10256.9	6819.7	3059.5	1421.9	1065.8	986.6	1036.4	1081.1	1078.5	1072.2
47.5°	12255.7	10844.1	6838.8	2571.9	1213.8	1002.0	985.4	1022.4	1081.1	1091.3	1083.6
50°	12984.5	11459.3	6726.5	1997.5	1125.8	1009.6	986.6	993.0	1058.1	1069.6	1065.8
52.5°	13792.5	12124.3	6449.5	1518.9	1091.3	1022.4	990.5	981.5	1018.5	1039.0	1042.8
55°	14535.3	12652.7	5930.0	1341.5	1065.8	1023.7	1018.5	989.2	990.5	980.3	1005.8
57.5°	15159.5	13156.8	5340.3	1244.5	1042.8	1012.2	1031.3	976.4	961.1	919.0	908.8
60°	15805.3	13566.6	4510.7	1178.1	1016.0	998.1	999.4	954.7	916.4	855.2	837.3
62.5°	16263.5	13783.5	3705.3	1100.2	979.0	976.4	957.3	924.1	889.6	836.0	828.4
65°	16396.3	13668.7	2846.3	1018.5	930.5	940.7	906.2	860.3	717.3	651.0	651.0
67.5°	15957.2	12961.6	2107.3	924.1	871.8	892.2	824.5	677.8	603.7	564.2	570.5
70°	14753.6	11819.2	1372.1	786.2	787.5	804.1	680.3	610.1	539.9	515.7	528.4
72.5°	13145.4	10125.5	904.9	626.7	663.7	635.6	621.6	561.6	499.1	471.0	479.9
75°	10832.6	7995.2	628.0	492.7	430.1	542.5	552.7	472.3	423.8	514.4	534.8
77.5°	8558.1	5557.3	518.2	344.6	317.8	400.8	442.9	437.8	700.7	823.3	814.3
80°	5088.9	3199.9	422.5	238.7	224.6	257.8	348.4	502.9	785.0	589.7	561.6
82.5°	2307.7	1455.1	224.6	125.1	146.8	171.0	260.4	625.4	514.4	377.8	356.1
85°	901.1	474.8	89.3	54.9	51.1	63.8	118.7	301.2	206.8	167.2	167.2
87.5°	116.1	85.5	25.5	19.1	16.6	20.4	38.3	167.2	97.0	81.7	79.1
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)