

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: P510085

Luminaire Tested: **VERD-M-CA4-200-740-U-T2**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510085
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-CA4-200-740-U-T2
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 4000K, 910mA LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28766 lumens
Efficiency: N/A
Efficacy: 142.5 lumens/watt
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

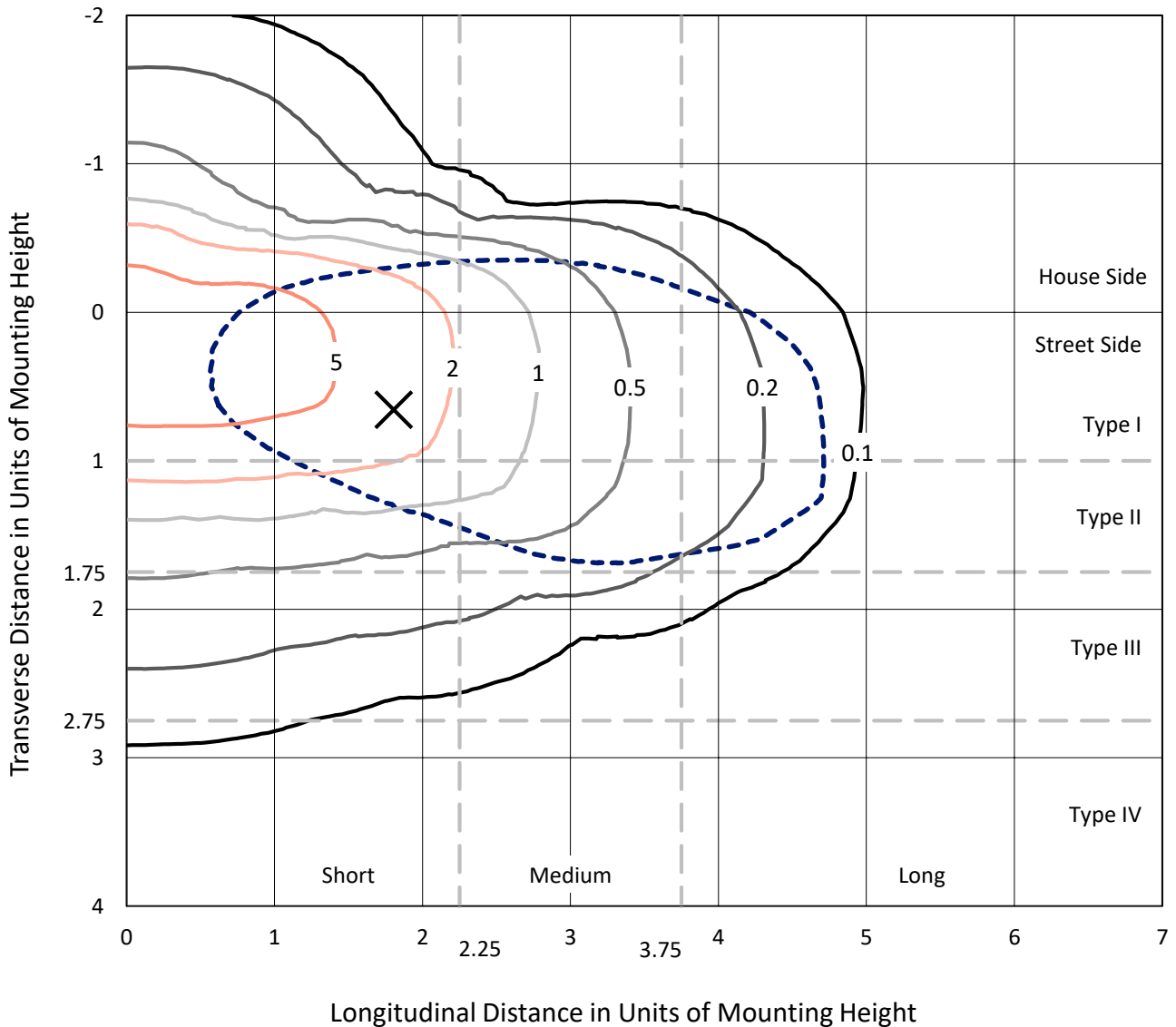
Input Watts (W): 201.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

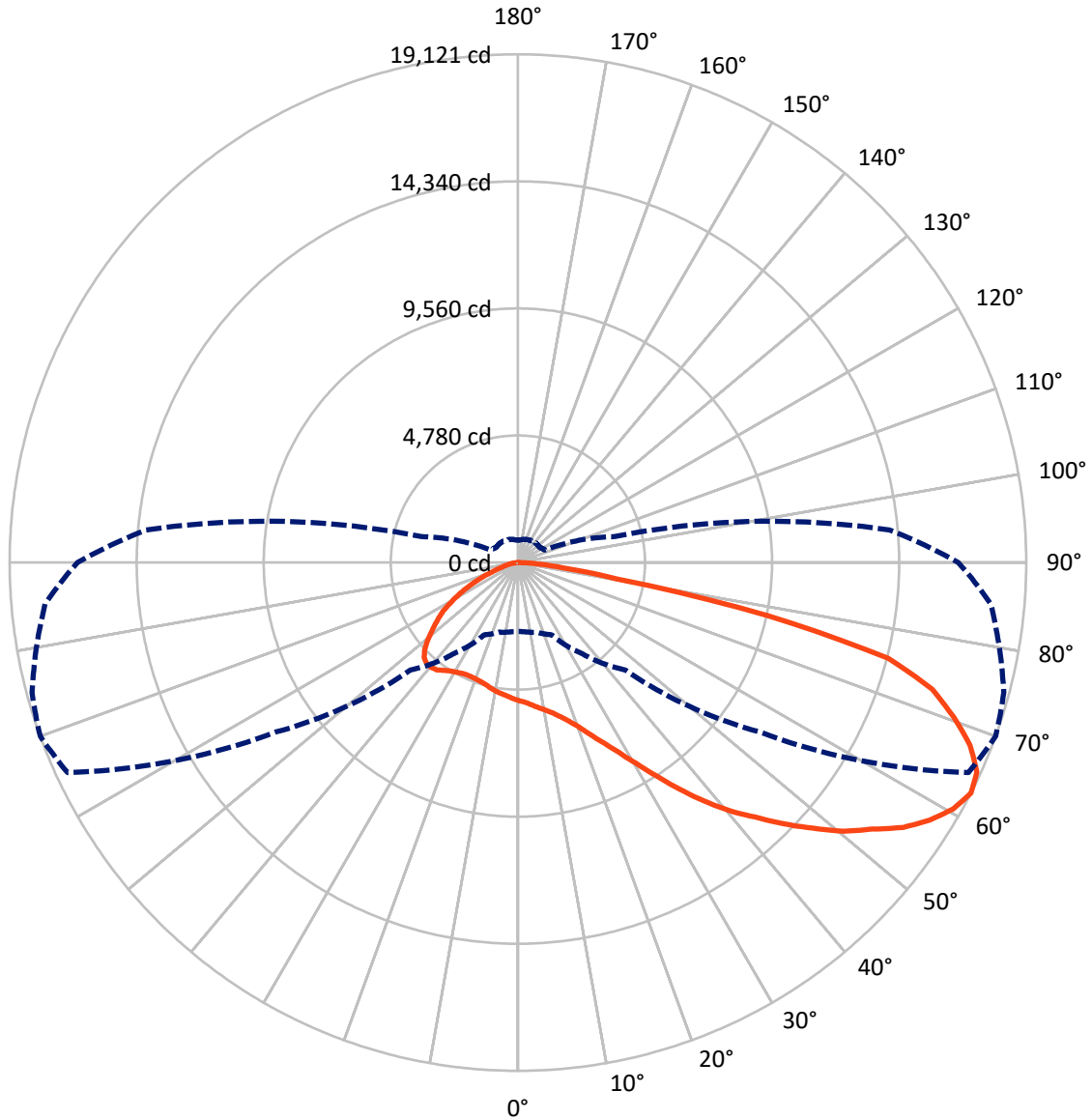
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 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	7447.7	0.0	7447.7
	% Fixture	25.9	0.0	25.9
Street Side	Lumens	21318.3	0.0	21318.3
	% Fixture	74.1	0.0	74.1
Total	Lumens	28766.0	0.0	28766.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	498.7	1.7
10°-20°	1514.4	5.3
20°-30°	2570.2	8.9
30°-40°	3718.9	12.9
40°-50°	4880.1	17.0
50°-60°	5702.3	19.8
60°-70°	5722.5	19.9
70°-80°	3646.4	12.7
80°-90°	512.5	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°	28766.0	100.0
0°-180°	28766.0	100.0

Coefficient of Utilization



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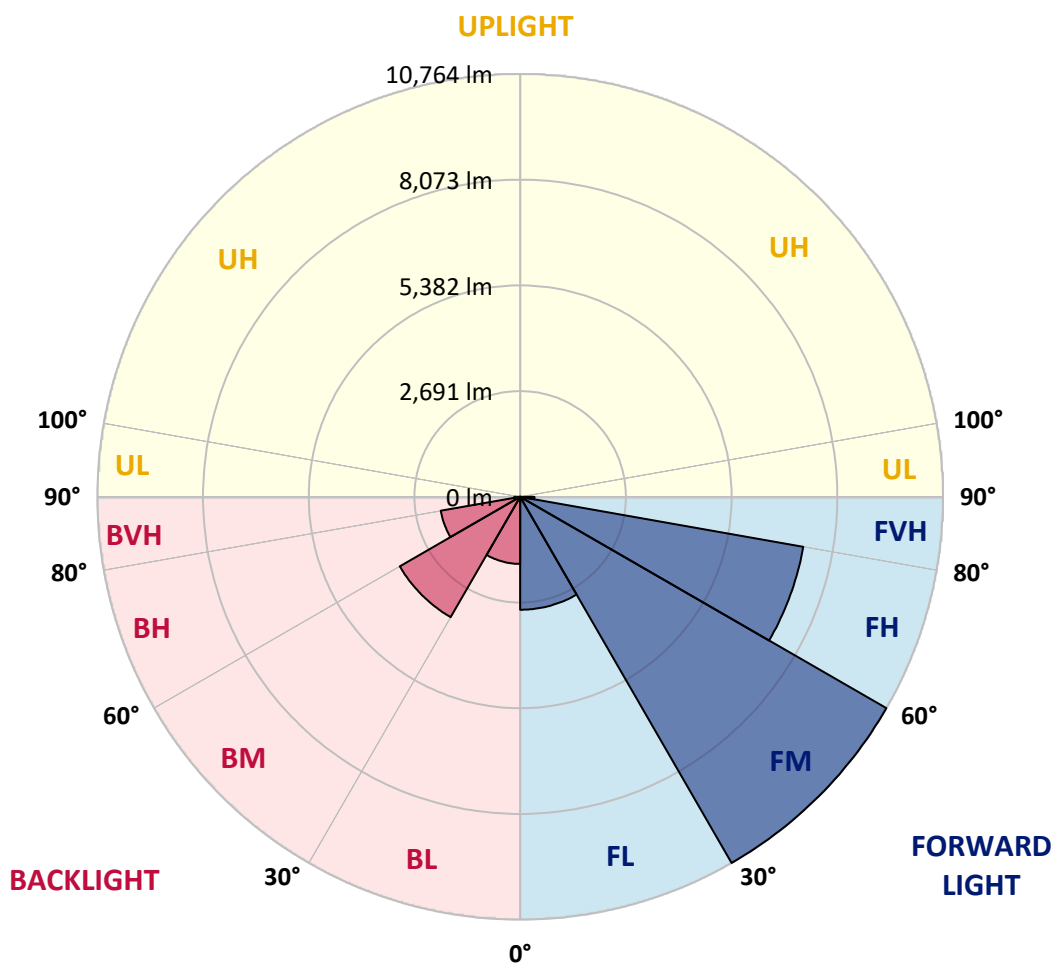
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2875.2	10.0			
FM (30°-60°)	10763.9	37.4			
FH (60°-80°)	7317.8	25.4			G3/7500
FVH (80°-90°)	361.5	1.3			G3/500
BL (0°-30°)	1708.1	5.9	B3/2500		
BM (30°-60°)	3537.4	12.3	B3/5000		
BH (60°-80°)	2051.2	7.1	B3/2500		G3/2500
BVH (80°-90°)	151.0	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°	5191.9	5191.9	5191.9	5191.9	5191.9	5191.9	5191.9	5191.9	5191.9	5191.9	5191.9
2.5°	5390.8	5447.9	5440.1	5405.1	5429.8	5362.2	5337.5	5299.8	5260.8	5247.8	5225.7
5°	5645.5	5720.9	5706.6	5659.8	5658.5	5562.3	5507.7	5436.3	5376.5	5329.7	5260.8
7.5°	5883.4	5970.5	5957.5	5912.0	5909.4	5798.9	5685.8	5574.0	5505.1	5445.3	5319.3
10°	6135.6	6201.9	6190.2	6131.7	6120.0	6012.1	5879.5	5739.1	5637.7	5554.5	5375.2
12.5°	6368.3	6438.5	6443.7	6370.9	6352.7	6237.0	6121.3	5935.4	5804.1	5709.2	5445.3
15°	6585.4	6668.6	6653.0	6580.2	6560.7	6443.7	6330.6	6159.0	6022.5	5889.9	5559.7
17.5°	6759.6	6838.9	6819.4	6786.9	6776.5	6685.5	6591.9	6406.0	6285.1	6114.8	5736.5
20°	6879.2	6953.3	6961.1	6952.0	7011.7	6926.0	6874.0	6742.7	6610.1	6456.7	5978.3
22.5°	6926.0	7014.3	7089.7	7148.2	7271.7	7258.7	7249.6	7174.2	7044.2	6820.7	6298.1
25°	6940.3	7028.6	7145.6	7289.9	7510.9	7590.2	7647.4	7665.6	7523.9	7347.1	6695.9
27.5°	6942.9	7037.7	7157.3	7390.0	7726.7	7965.9	8102.4	8166.1	8086.8	7946.4	7236.6
30°	6888.3	6985.8	7139.1	7449.8	7895.7	8288.3	8514.5	8796.5	8762.7	8644.4	7913.9
32.5°	6731.0	6819.4	7031.2	7439.4	8063.4	8618.4	8970.7	9459.5	9573.9	9497.2	8695.1
35°	6448.9	6556.8	6831.1	7353.6	8154.4	8939.5	9507.6	10268.0	10474.7	10479.9	9653.2
37.5°	6164.2	6246.1	6568.5	7192.4	8205.1	9224.2	10017.2	11077.9	11378.2	11384.7	10450.0
40°	5861.3	5936.7	6291.6	6976.7	8153.1	9447.8	10491.6	11856.5	12286.8	12246.5	11232.6
42.5°	5468.7	5551.9	5904.2	6682.9	8023.1	9620.7	10973.9	12674.2	13087.6	13133.1	12048.9
45°	5133.4	5199.7	5507.7	6224.0	7785.2	9714.3	11426.3	13546.4	14019.6	13971.5	12919.9
47.5°	4720.0	4818.8	5147.7	5850.9	7357.5	9690.9	11859.1	14409.6	14936.0	14891.8	13675.1
50°	3641.1	3755.5	4519.8	5459.6	6811.6	9507.6	12251.7	15235.0	15888.9	15773.2	14474.6
52.5°	3307.0	3339.5	3643.7	5009.9	6273.4	9091.6	12540.3	16277.6	16664.9	16619.4	15284.4
55°	3102.9	3165.3	3304.4	4127.2	5789.8	8415.7	12740.5	17148.5	17585.3	17372.1	16017.6
57.5°	2923.5	2967.7	3132.8	3533.2	5233.5	7484.9	12682.0	17882.9	18272.9	17975.2	16733.8
60°	2732.4	2761.0	2926.1	3225.1	4632.9	6456.7	12087.9	18640.8	18813.7	18540.7	17339.6
62.5°	2584.2	2611.5	2710.3	2997.6	4164.9	5720.9	11115.6	18694.1	19120.5	18921.6	17854.4
65°	2394.4	2412.6	2536.1	2762.3	3730.8	5282.9	10258.9	18193.6	18972.3	18922.9	18051.9
67.5°	2185.2	2207.3	2324.3	2484.1	3175.7	4766.8	8826.4	17923.2	18345.7	18393.8	17681.5
70°	1939.5	1955.1	2076.0	2191.7	2716.8	4184.4	7016.9	16887.2	17379.9	17378.6	16537.5
72.5°	1674.3	1673.0	1792.6	1914.8	2276.2	3515.0	5493.4	14993.2	16297.1	16199.6	14910.0
75°	1380.5	1400.0	1515.7	1611.9	1894.0	2849.4	3825.7	10860.8	14387.5	14521.4	12867.9
77.5°	882.6	895.6	960.6	1059.4	1324.6	2177.4	2495.8	6035.5	9606.4	11587.5	10128.9
80°	644.8	651.3	708.5	765.7	881.3	1325.9	1268.7	2623.2	3807.5	5688.4	6213.6
82.5°	439.4	440.7	486.2	499.2	505.7	598.0	601.9	1276.5	1813.4	2135.8	2744.1
85°	291.2	241.8	188.5	249.6	256.1	219.7	214.5	575.9	899.5	1078.9	1016.5
87.5°	65.0	63.7	74.1	75.4	72.8	62.4	52.0	88.4	135.2	133.9	171.6
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°	5191.9	5191.9	5191.9	5191.9	5191.9	5191.9	5191.9	5191.9	5191.9	5191.9	5191.9
2.5°	5204.9	5198.4	5162.0	5085.3	5033.3	4980.0	4950.1	4931.9	4938.4	4908.5	4895.5
5°	5217.9	5185.4	5082.7	4991.7	4909.8	4817.5	4740.8	4730.4	4746.0	4718.7	4703.1
7.5°	5251.7	5182.8	5051.5	4895.5	4759.0	4671.9	4561.4	4505.5	4501.6	4474.3	4479.5
10°	5271.2	5181.5	5006.0	4817.5	4657.6	4502.9	4384.6	4322.2	4318.3	4279.3	4270.2
12.5°	5324.5	5195.8	4952.7	4722.6	4544.5	4337.8	4213.0	4155.8	4149.3	4094.7	4073.9
15°	5406.4	5228.3	4896.8	4612.1	4382.0	4188.3	4038.8	3962.1	3950.4	3886.7	3864.7
17.5°	5536.3	5320.6	4879.9	4512.0	4240.3	4028.4	3853.0	3769.8	3702.2	3667.1	3637.2
20°	5711.8	5435.0	4899.4	4418.4	4062.2	3817.9	3599.5	3490.3	3443.5	3386.3	3390.2
22.5°	5961.4	5614.3	4933.2	4345.6	3901.0	3593.0	3347.3	3225.1	3140.6	3092.5	3095.1
25°	6312.4	5884.7	4999.5	4276.7	3725.6	3347.3	3057.4	2887.1	2801.3	2770.1	2737.6
27.5°	6755.7	6208.4	5156.8	4192.2	3517.6	3069.1	2748.0	2549.1	2462.0	2415.2	2408.7
30°	7325.0	6633.5	5341.4	4129.8	3299.2	2722.0	2364.5	2207.3	2130.6	2064.3	2033.1
32.5°	8019.2	7234.0	5546.7	4067.4	3028.8	2333.3	2009.7	1888.8	1766.6	1682.1	1686.0
35°	8825.1	7887.9	5852.2	3988.1	2711.6	1970.7	1747.1	1591.1	1476.7	1420.8	1394.8
37.5°	9585.6	8558.6	6211.0	3907.5	2356.7	1735.4	1488.4	1344.1	1255.7	1212.8	1221.9
40°	10355.1	9250.2	6520.4	3710.0	1959.0	1522.2	1232.3	1150.4	1115.3	1081.5	1085.4
42.5°	11044.1	9801.4	6746.6	3490.3	1680.8	1277.8	1050.3	1068.5	1089.3	1069.8	1064.6
45°	11761.6	10446.1	6945.5	3115.9	1448.1	1085.4	1004.8	1055.5	1101.0	1098.4	1091.9
47.5°	12481.8	11044.1	6965.0	2619.3	1236.2	1020.4	1003.5	1041.2	1101.0	1111.4	1103.6
50°	13224.0	11670.6	6850.6	2034.4	1146.5	1028.2	1004.8	1011.3	1077.6	1089.3	1085.4
52.5°	14046.9	12347.9	6568.5	1546.9	1111.4	1041.2	1008.7	999.6	1037.3	1058.1	1062.0
55°	14803.4	12886.1	6039.4	1366.2	1085.4	1042.5	1037.3	1007.4	1008.7	998.3	1024.3
57.5°	15439.1	13399.5	5438.8	1267.4	1062.0	1030.8	1050.3	994.4	978.8	935.9	925.5
60°	16096.9	13816.8	4593.9	1199.8	1034.7	1016.5	1017.8	972.3	933.3	870.9	852.7
62.5°	16563.5	14037.8	3773.7	1120.5	997.0	994.4	974.9	941.1	906.0	851.4	843.6
65°	16698.7	13920.8	2898.8	1037.3	947.6	958.0	922.9	876.1	730.6	663.0	663.0
67.5°	16251.6	13200.7	2146.2	941.1	887.8	908.6	839.7	690.3	614.9	574.6	581.1
70°	15025.7	12037.2	1397.4	800.7	802.0	818.9	692.9	621.4	549.9	525.2	538.2
72.5°	13387.8	10312.2	921.6	638.3	676.0	647.4	633.1	572.0	508.3	479.7	488.8
75°	11032.4	8142.7	639.6	501.8	438.1	552.5	562.9	481.0	431.6	523.9	544.7
77.5°	8715.9	5659.8	527.8	351.0	323.7	408.2	451.1	445.9	713.7	838.4	829.3
80°	5182.8	3258.9	430.3	243.1	228.8	262.6	354.9	512.2	799.4	600.6	572.0
82.5°	2350.2	1481.9	228.8	127.4	149.5	174.2	265.2	637.0	523.9	384.8	362.7
85°	917.7	483.6	91.0	55.9	52.0	65.0	120.9	306.8	210.6	170.3	170.3
87.5°	118.3	87.1	26.0	19.5	16.9	20.8	39.0	170.3	98.8	83.2	80.6
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)