

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: P509941

Luminaire Tested: **VERD-M-CA3-170-740-U-T2**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509941
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-CA3-170-740-U-T2
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 1060mA LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24432 lumens
Efficiency: N/A
Efficacy: 141.4 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

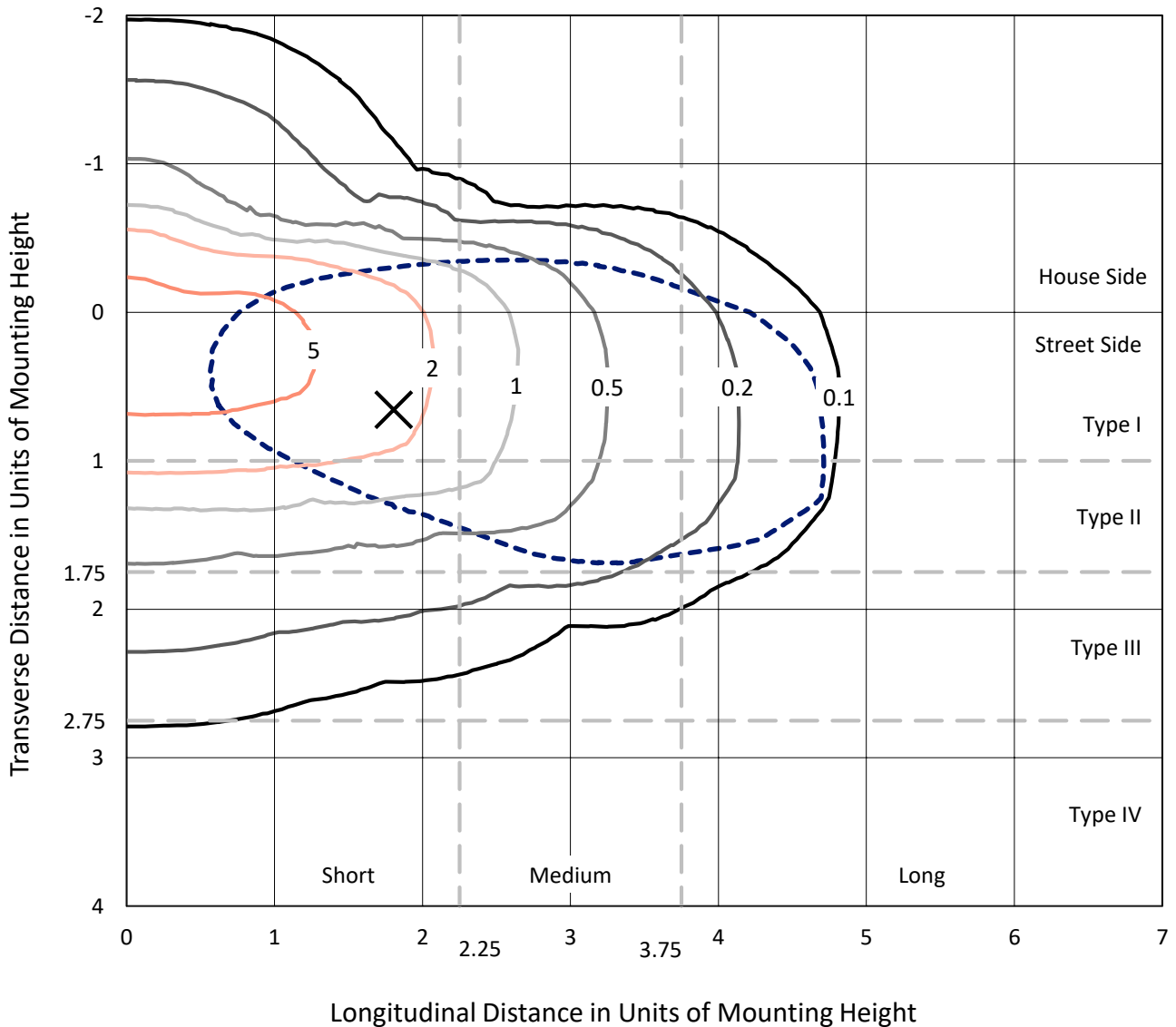
Input Watts (W): 172.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P509941
 CATALOG NUMBER: VERD-M-CA3-170-740-U-T2

Iso-Footcandle Lines of Horizontal Illumination

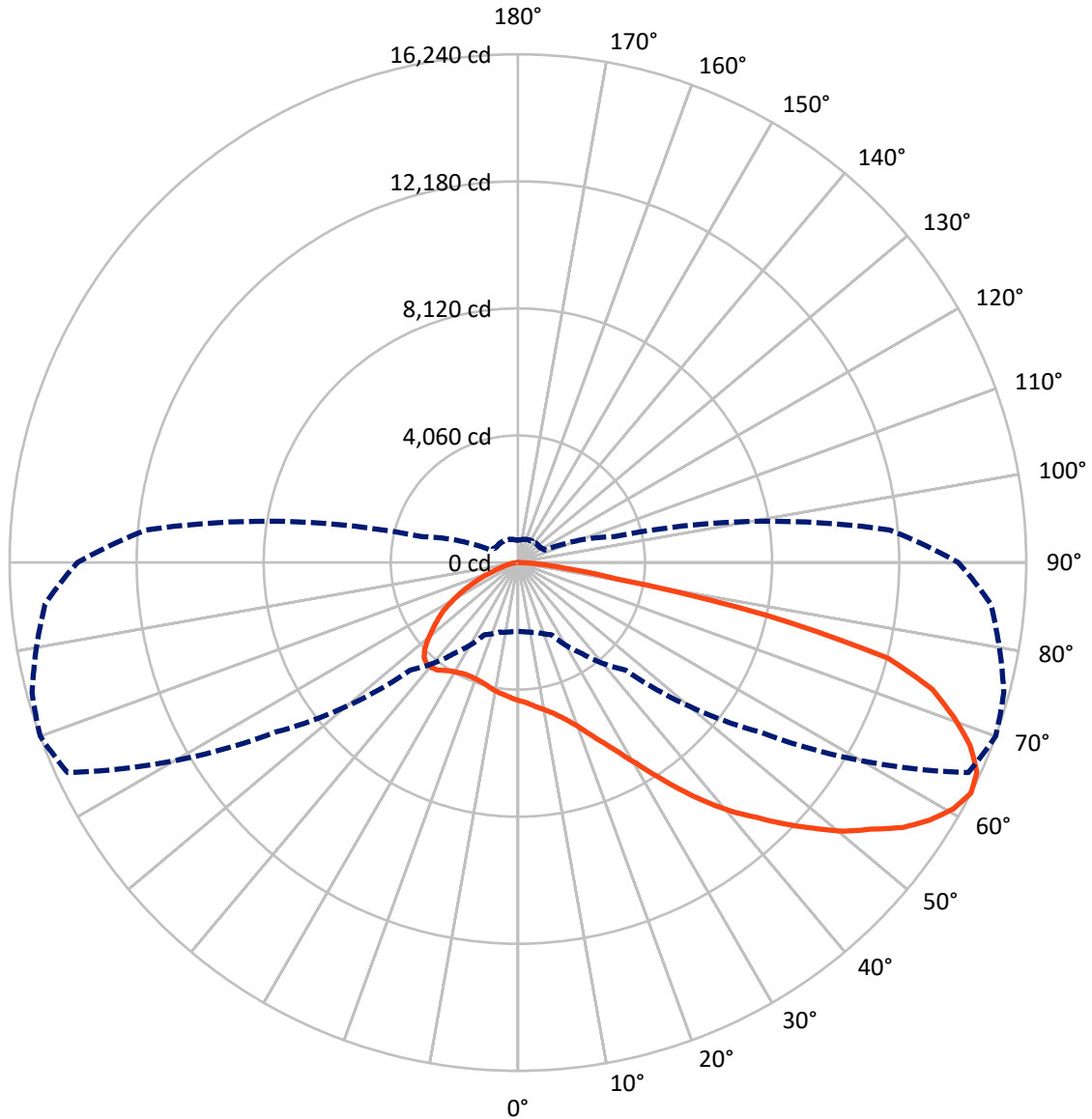
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type II - Short - N/A

REPORT NUMBER: P509941
CATALOG NUMBER: VERD-M-CA3-170-740-U-T2

Luminous Intensity Polar Plot



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

REPORT NUMBER: P509941

CATALOG NUMBER: VERD-M-CA3-170-740-U-T2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6325.6	0.0	6325.6
	% Fixture	25.9	0.0	25.9
Street Side	Lumens	18106.4	0.0	18106.4
	% Fixture	74.1	0.0	74.1
Total	Lumens	24432.0	0.0	24432.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	423.5	1.7
10°-20°	1286.2	5.3
20°-30°	2183.0	8.9
30°-40°	3158.6	12.9
40°-50°	4144.9	17.0
50°-60°	4843.2	19.8
60°-70°	4860.3	19.9
70°-80°	3097.0	12.7
80°-90°	435.2	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°	24432.0	100.0
0°-180°	24432.0	100.0

Coefficient of Utilization



REPORT NUMBER: P509941

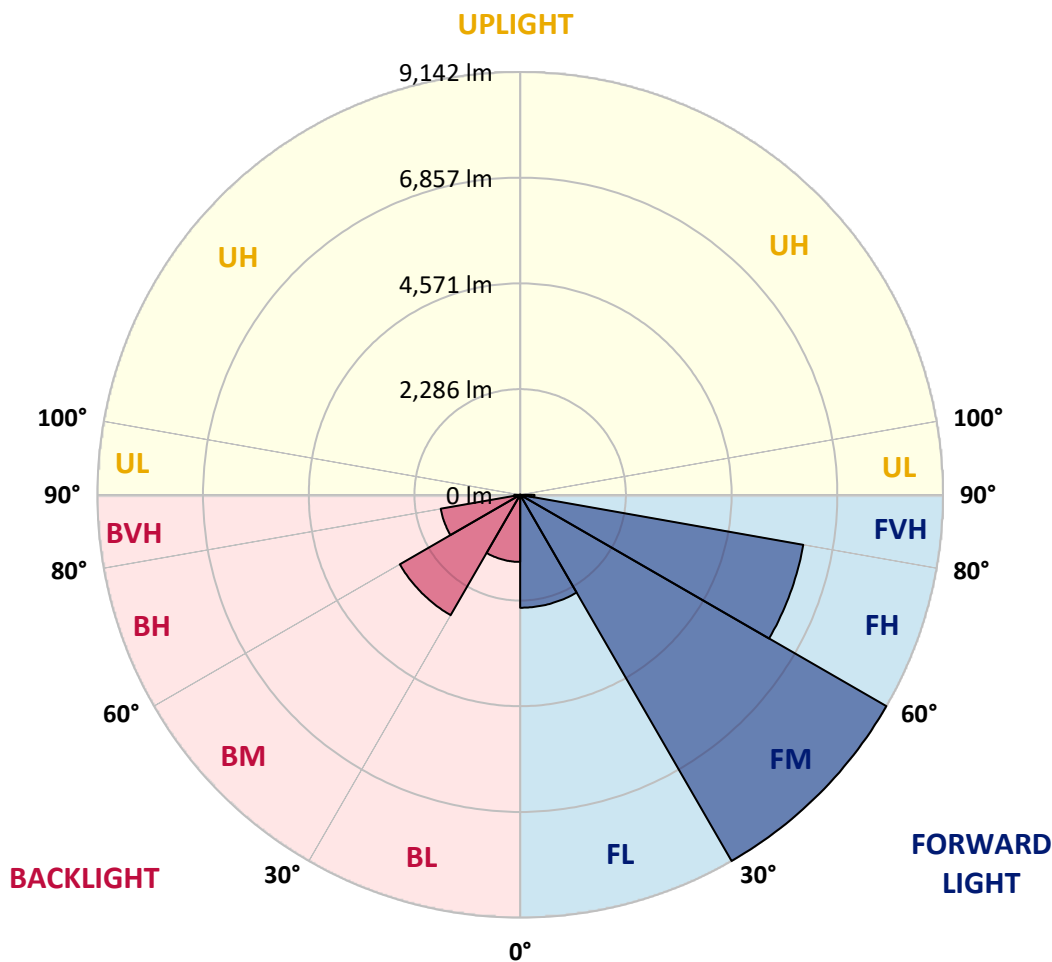
CATALOG NUMBER: VERD-M-CA3-170-740-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2442.0	10.0			
FM (30°-60°)	9142.2	37.4			
FH (60°-80°)	6215.2	25.4			G3/7500
FVH (80°-90°)	307.0	1.3			G3/500
BL (0°-30°)	1450.7	5.9	B3/2500		
BM (30°-60°)	3004.5	12.3	B3/5000		
BH (60°-80°)	1742.1	7.1	B3/2500		G3/2500
BVH (80°-90°)	128.2	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





REPORT NUMBER: P509941

CATALOG NUMBER: VERD-M-CA3-170-740-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	4409.6	4409.6	4409.6	4409.6	4409.6	4409.6	4409.6	4409.6	4409.6	4409.6	4409.6
2.5°	4578.6	4627.1	4620.5	4590.7	4611.7	4554.3	4533.3	4501.3	4468.2	4457.1	4438.3
5°	4795.0	4859.0	4846.8	4807.1	4806.0	4724.3	4677.9	4617.2	4566.4	4526.7	4468.2
7.5°	4997.0	5071.0	5059.9	5021.3	5019.1	4925.2	4829.2	4734.2	4675.7	4624.9	4517.8
10°	5211.2	5267.5	5257.6	5207.9	5197.9	5106.3	4993.7	4874.5	4788.3	4717.7	4565.3
12.5°	5408.8	5468.4	5472.9	5411.0	5395.6	5297.3	5199.0	5041.2	4929.7	4849.1	4624.9
15°	5593.2	5663.9	5650.6	5588.8	5572.2	5472.9	5376.8	5231.1	5115.1	5002.5	4722.1
17.5°	5741.1	5808.5	5791.9	5764.3	5755.5	5678.2	5598.7	5440.8	5338.2	5193.5	4872.2
20°	5842.7	5905.6	5912.3	5904.5	5955.3	5882.5	5838.3	5726.8	5614.2	5483.9	5077.6
22.5°	5882.5	5957.5	6021.6	6071.3	6176.1	6165.1	6157.4	6093.3	5982.9	5793.0	5349.2
25°	5894.6	5969.7	6069.0	6191.6	6379.3	6446.6	6495.2	6510.7	6390.3	6240.2	5687.0
27.5°	5896.8	5977.4	6079.0	6276.6	6562.6	6765.7	6881.6	6935.7	6868.4	6749.2	6146.3
30°	5850.4	5933.2	6063.5	6327.4	6706.1	7039.5	7231.6	7471.2	7442.5	7342.0	6721.6
32.5°	5716.9	5791.9	5971.9	6318.6	6848.5	7320.0	7619.2	8034.3	8131.4	8066.3	7385.1
35°	5477.3	5568.9	5801.9	6245.7	6925.8	7592.7	8075.1	8721.0	8896.6	8901.0	8198.8
37.5°	5235.5	5305.0	5578.8	6108.8	6968.9	7834.5	8507.9	9408.8	9663.9	9669.4	8875.6
40°	4978.2	5042.3	5343.7	5925.5	6924.7	8024.4	8910.9	10070.2	10435.6	10401.4	9540.2
42.5°	4644.8	4715.5	5014.7	5676.0	6814.3	8171.2	9320.5	10764.6	11115.7	11154.4	10233.6
45°	4360.0	4416.3	4677.9	5286.3	6612.2	8250.7	9704.7	11505.5	11907.3	11866.5	10973.3
47.5°	4008.9	4092.8	4372.1	4969.4	6249.0	8230.8	10072.4	12238.6	12685.7	12648.2	11614.8
50°	3092.5	3189.6	3838.8	4637.1	5785.3	8075.1	10405.8	12939.7	13495.0	13396.7	12293.8
52.5°	2808.7	2836.3	3094.7	4255.1	5328.2	7721.8	10650.9	13825.1	14154.1	14115.5	12981.6
55°	2635.4	2688.4	2806.5	3505.4	4917.5	7147.7	10820.9	14564.8	14935.8	14754.7	13604.3
57.5°	2483.0	2520.6	2660.8	3000.9	4445.0	6357.2	10771.3	15188.6	15519.9	15267.0	14212.6
60°	2320.7	2345.0	2485.3	2739.2	3934.9	5483.9	10266.7	15832.3	15979.1	15747.3	14727.1
62.5°	2194.9	2218.1	2302.0	2546.0	3537.4	4859.0	9440.9	15877.6	16239.7	16070.8	15164.3
65°	2033.7	2049.1	2154.0	2346.1	3168.7	4486.9	8713.3	15452.5	16113.8	16071.9	15332.2
67.5°	1855.9	1874.7	1974.1	2109.9	2697.2	4048.6	7496.6	15222.9	15581.7	15622.5	15017.5
70°	1647.3	1660.5	1763.2	1861.5	2307.5	3554.0	5959.7	14342.9	14761.4	14760.3	14045.9
72.5°	1422.0	1420.9	1522.5	1626.3	1933.2	2985.4	4665.8	12734.3	13841.7	13758.9	12663.6
75°	1172.5	1189.1	1287.3	1369.0	1608.6	2420.1	3249.3	9224.5	12219.8	12333.5	10929.1
77.5°	749.7	760.7	815.9	899.8	1125.0	1849.3	2119.8	5126.2	8159.0	9841.6	8602.9
80°	547.6	553.1	601.7	650.3	748.6	1126.1	1077.6	2228.0	3233.8	4831.4	5277.4
82.5°	373.2	374.3	412.9	424.0	429.5	507.9	511.2	1084.2	1540.2	1814.0	2330.7
85°	247.3	205.4	160.1	212.0	217.5	186.6	182.2	489.1	764.0	916.4	863.4
87.5°	55.2	54.1	62.9	64.0	61.8	53.0	44.2	75.1	114.8	113.7	145.7
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: P509941

CATALOG NUMBER: VERD-M-CA3-170-740-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4409.6	4409.6	4409.6	4409.6	4409.6	4409.6	4409.6	4409.6	4409.6	4409.6	4409.6
2.5°	4420.7	4415.2	4384.2	4319.1	4274.9	4229.7	4204.3	4188.8	4194.3	4169.0	4157.9
5°	4431.7	4404.1	4316.9	4239.6	4170.1	4091.7	4026.5	4017.7	4030.9	4007.8	3994.5
7.5°	4460.4	4401.9	4290.4	4157.9	4042.0	3968.0	3874.2	3826.7	3823.4	3800.2	3804.6
10°	4477.0	4400.8	4251.8	4091.7	3955.9	3824.5	3724.0	3671.0	3667.7	3634.6	3626.9
12.5°	4522.3	4413.0	4206.5	4011.1	3859.8	3684.3	3578.3	3529.7	3524.2	3477.8	3460.1
15°	4591.8	4440.6	4159.0	3917.2	3721.8	3557.3	3430.3	3365.2	3355.3	3301.2	3282.4
17.5°	4702.2	4518.9	4144.7	3832.2	3601.5	3421.5	3272.5	3201.8	3144.4	3114.6	3089.2
20°	4851.3	4616.1	4161.2	3752.7	3450.2	3242.6	3057.2	2964.4	2924.7	2876.1	2879.4
22.5°	5063.2	4768.5	4189.9	3690.9	3313.3	3051.6	2843.0	2739.2	2667.4	2626.6	2628.8
25°	5361.3	4998.1	4246.2	3632.4	3164.3	2843.0	2596.8	2452.1	2379.3	2352.8	2325.2
27.5°	5737.8	5273.0	4379.8	3560.6	2987.6	2606.7	2334.0	2165.1	2091.1	2051.4	2045.8
30°	6221.4	5634.0	4536.6	3507.6	2802.1	2311.9	2008.3	1874.7	1809.6	1753.3	1726.8
32.5°	6811.0	6144.1	4711.0	3454.6	2572.5	1981.8	1706.9	1604.2	1500.4	1428.7	1432.0
35°	7495.5	6699.5	4970.5	3387.3	2303.1	1673.8	1483.9	1351.4	1254.2	1206.7	1184.7
37.5°	8141.4	7269.2	5275.2	3318.8	2001.7	1473.9	1264.2	1141.6	1066.5	1030.1	1037.8
40°	8795.0	7856.5	5538.0	3151.0	1663.8	1292.9	1046.7	977.1	947.3	918.6	921.9
42.5°	9380.1	8324.7	5730.1	2964.4	1427.6	1085.3	892.1	907.5	925.2	908.6	904.2
45°	9989.6	8872.3	5899.0	2646.4	1229.9	921.9	853.4	896.5	935.1	932.9	927.4
47.5°	10601.2	9380.1	5915.6	2224.7	1050.0	866.7	852.3	884.4	935.1	944.0	937.4
50°	11231.7	9912.3	5818.4	1727.9	973.8	873.3	853.4	859.0	915.3	925.2	921.9
52.5°	11930.5	10487.5	5578.8	1313.8	944.0	884.4	856.8	849.0	881.0	898.7	902.0
55°	12573.1	10944.6	5129.5	1160.4	921.9	885.5	881.0	855.7	856.8	847.9	870.0
57.5°	13113.0	11380.7	4619.4	1076.5	902.0	875.5	892.1	844.6	831.4	794.9	786.1
60°	13671.6	11735.1	3901.8	1019.1	878.8	863.4	864.5	825.8	792.7	739.7	724.3
62.5°	14068.0	11922.8	3205.1	951.7	846.8	844.6	828.0	799.3	769.5	723.2	716.5
65°	14182.8	11823.4	2462.1	881.0	804.9	813.7	783.9	744.1	620.5	563.1	563.1
67.5°	13803.0	11211.8	1822.8	799.3	754.1	771.7	713.2	586.3	522.2	488.0	493.5
70°	12761.9	10223.6	1186.9	680.1	681.2	695.6	588.5	527.7	467.0	446.0	457.1
72.5°	11370.8	8758.6	782.8	542.1	574.1	549.8	537.7	485.8	431.7	407.4	415.1
75°	9370.2	6915.9	543.2	426.2	372.1	469.2	478.1	408.5	366.5	444.9	462.6
77.5°	7402.8	4807.1	448.3	298.1	274.9	346.7	383.1	378.7	606.1	712.1	704.4
80°	4401.9	2767.9	365.4	206.5	194.3	223.0	301.4	435.0	679.0	510.1	485.8
82.5°	1996.2	1258.6	194.3	108.2	127.0	147.9	225.2	541.0	444.9	326.8	308.0
85°	779.5	410.7	77.3	47.5	44.2	55.2	102.7	260.6	178.9	144.6	144.6
87.5°	100.5	74.0	22.1	16.6	14.4	17.7	33.1	144.6	83.9	70.7	68.5
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)