

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: P509925

Luminaire Tested: **VERD-M-CA3-170-727-U-T2**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509925
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-CA3-170-727-U-T2
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 1060mA LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20689 lumens
Efficiency: N/A
Efficacy: 119.7 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

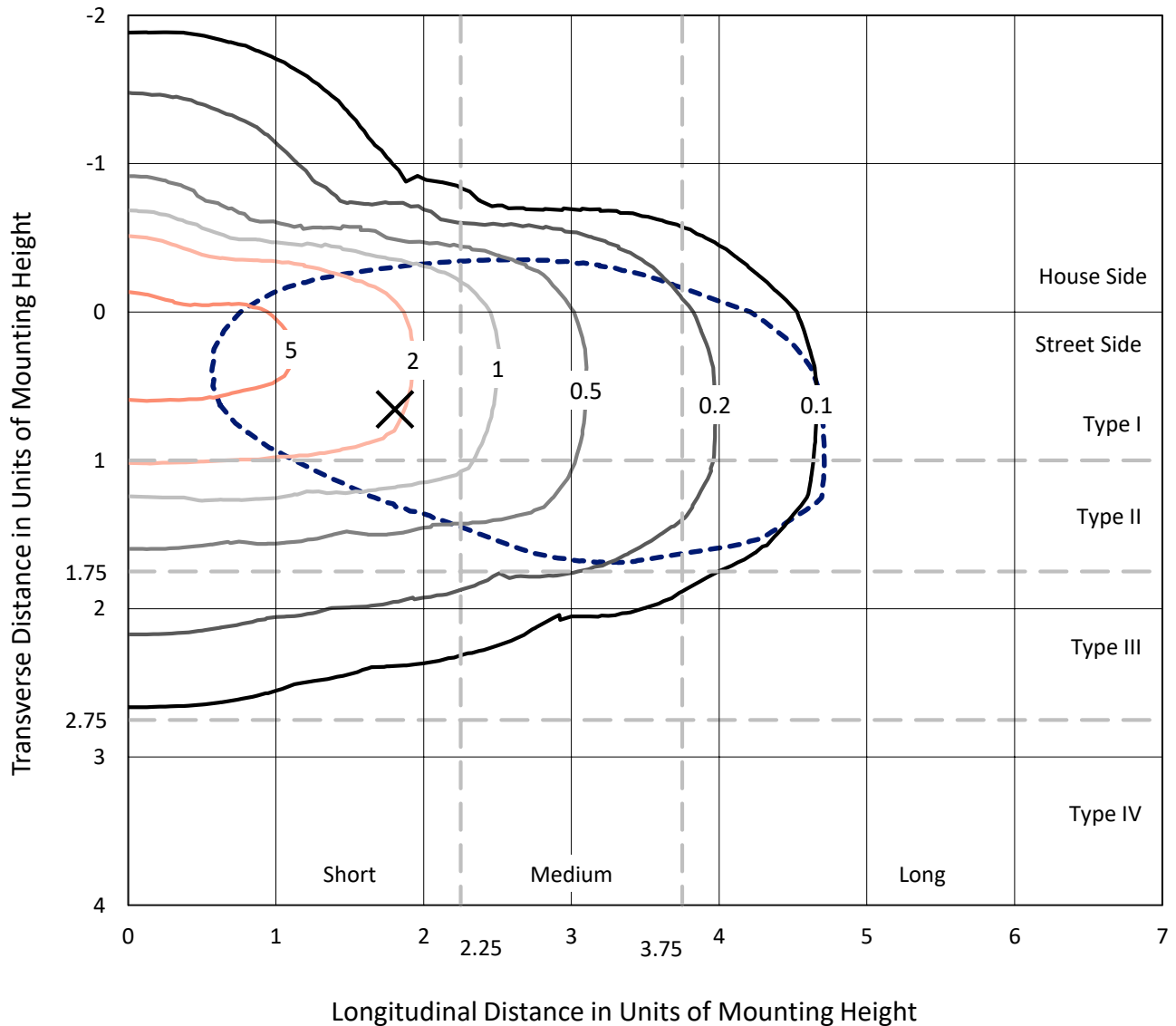
Input Watts (W): 172.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

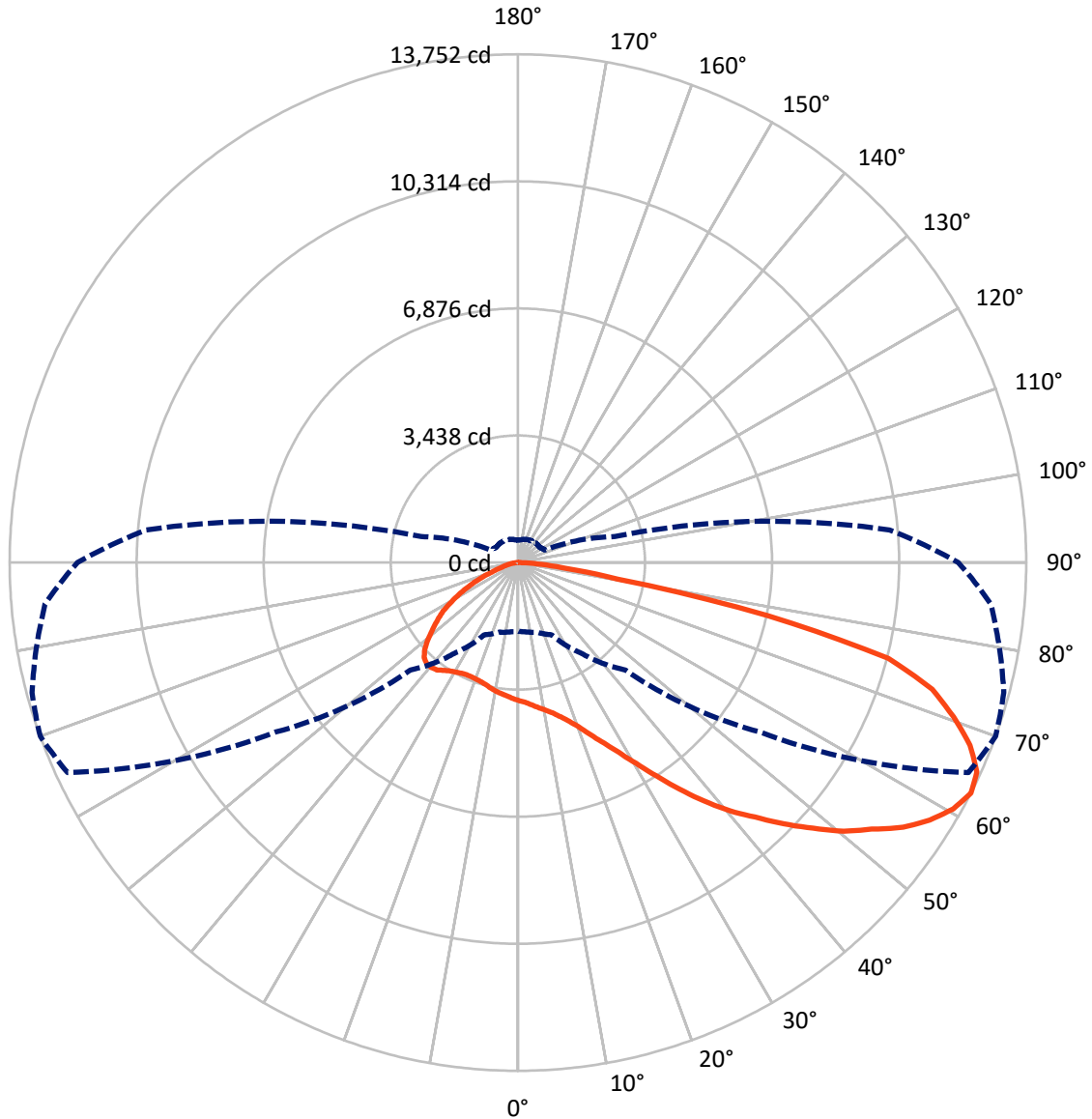
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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	5356.5	0.0	5356.5
	% Fixture	25.9	0.0	25.9
Street Side	Lumens	15332.5	0.0	15332.5
	% Fixture	74.1	0.0	74.1
Total	Lumens	20689.0	0.0	20689.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	358.7	1.7
10°-20°	1089.2	5.3
20°-30°	1848.5	8.9
30°-40°	2674.7	12.9
40°-50°	3509.9	17.0
50°-60°	4101.2	19.8
60°-70°	4115.7	19.9
70°-80°	2622.6	12.7
80°-90°	368.6	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°	20689.0	100.0
0°-180°	20689.0	100.0

Coefficient of Utilization



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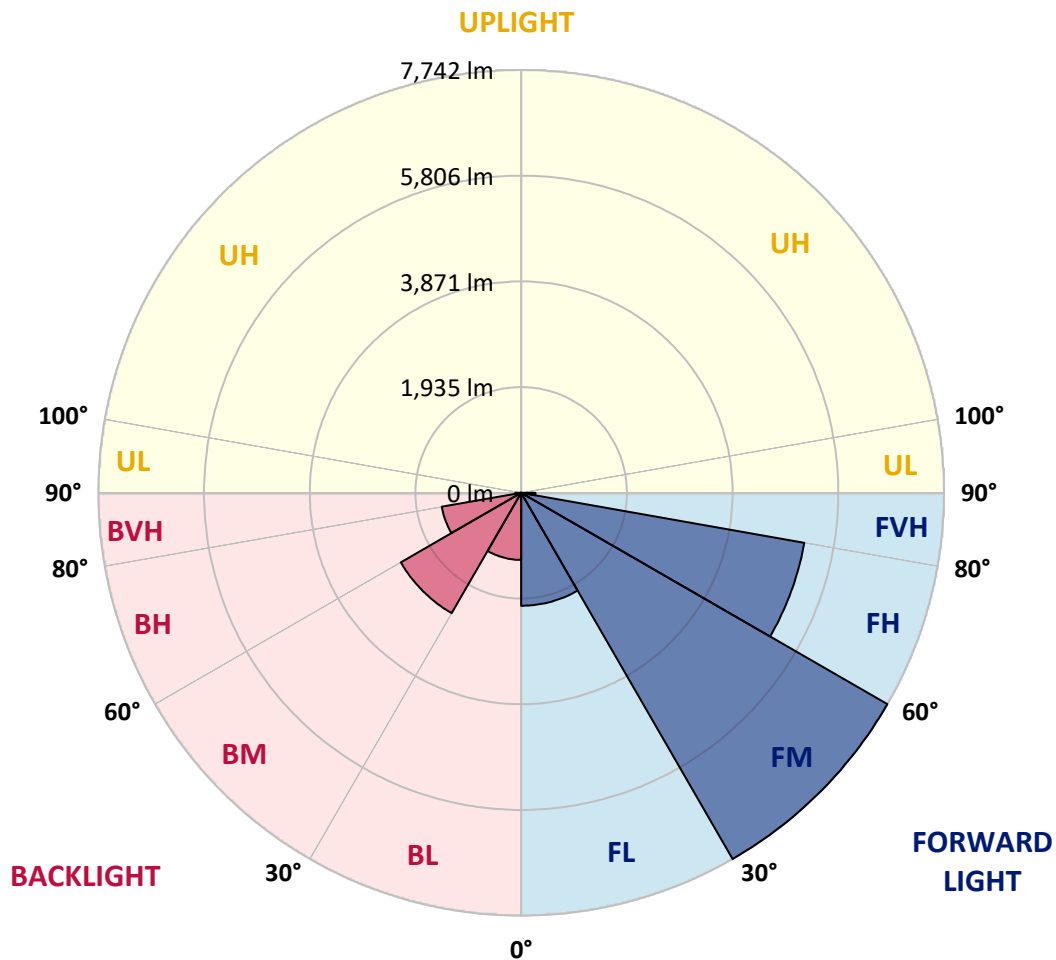
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2067.9	10.0			
FM (30°-60°)	7741.6	37.4			
FH (60°-80°)	5263.1	25.4			G3/7500
FVH (80°-90°)	260.0	1.3			G3/500
BL (0°-30°)	1228.5	5.9	B3/2500		
BM (30°-60°)	2544.2	12.3	B3/5000		
BH (60°-80°)	1475.2	7.1	B3/2500		G3/2500
BVH (80°-90°)	108.6	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°	3734.1	3734.1	3734.1	3734.1	3734.1	3734.1	3734.1	3734.1	3734.1	3734.1	3734.1
2.5°	3877.1	3918.3	3912.6	3887.4	3905.2	3856.6	3838.8	3811.7	3783.6	3774.3	3758.4
5°	4060.4	4114.6	4104.3	4070.7	4069.7	4000.5	3961.3	3909.8	3866.8	3833.2	3783.6
7.5°	4231.5	4294.1	4284.7	4252.0	4250.2	4170.7	4089.3	4008.9	3959.4	3916.4	3825.7
10°	4412.8	4460.5	4452.1	4410.0	4401.6	4324.0	4228.7	4127.7	4054.8	3994.9	3865.9
12.5°	4580.2	4630.7	4634.4	4582.1	4569.0	4485.8	4402.5	4268.9	4174.4	4106.2	3916.4
15°	4736.3	4796.2	4784.9	4732.6	4718.6	4634.4	4553.1	4429.7	4331.5	4236.1	3998.7
17.5°	4861.6	4918.6	4904.6	4881.2	4873.7	4808.3	4741.0	4607.3	4520.3	4397.9	4125.8
20°	4947.6	5000.9	5006.5	5000.0	5043.0	4981.3	4943.9	4849.4	4754.1	4643.8	4299.7
22.5°	4981.3	5044.8	5099.1	5141.1	5230.0	5220.6	5214.1	5159.8	5066.3	4905.5	4529.7
25°	4991.5	5055.1	5139.3	5243.0	5402.0	5459.0	5500.1	5513.2	5411.3	5284.2	4815.8
27.5°	4993.4	5061.7	5147.7	5315.0	5557.2	5729.2	5827.4	5873.2	5816.2	5715.2	5204.7
30°	4954.2	5024.3	5134.6	5358.0	5678.7	5961.1	6123.7	6326.6	6302.3	6217.2	5691.8
32.5°	4841.0	4904.6	5057.0	5350.6	5799.3	6198.5	6451.9	6803.4	6885.7	6830.5	6253.7
35°	4638.1	4715.7	4913.0	5288.9	5864.8	6429.5	6838.0	7384.9	7533.6	7537.3	6942.7
37.5°	4433.4	4492.3	4724.2	5172.9	5901.2	6634.2	7204.5	7967.4	8183.4	8188.0	7515.8
40°	4215.6	4269.8	4525.0	5017.7	5863.8	6795.0	7545.8	8527.4	8836.9	8807.9	8078.7
42.5°	3933.2	3993.1	4246.4	4806.4	5770.3	6919.4	7892.6	9115.5	9412.8	9445.5	8665.8
45°	3692.0	3739.7	3961.3	4476.4	5599.2	6986.7	8218.0	9742.8	10083.1	10048.5	9292.2
47.5°	3394.7	3465.8	3702.3	4208.1	5291.7	6969.8	8529.3	10363.6	10742.3	10710.5	9835.4
50°	2618.7	2701.0	3250.7	3926.7	4899.0	6838.0	8811.6	10957.3	11427.6	11344.3	10410.4
52.5°	2378.4	2401.8	2620.6	3603.2	4511.9	6538.8	9019.2	11707.1	11985.7	11953.0	10992.8
55°	2231.7	2276.5	2376.6	2968.4	4164.1	6052.7	9163.2	12333.5	12647.6	12494.3	11520.1
57.5°	2102.6	2134.4	2253.2	2541.1	3764.0	5383.3	9121.1	12861.7	13142.2	12928.1	12035.3
60°	1965.2	1985.8	2104.5	2319.5	3332.1	4643.8	8693.8	13406.8	13531.1	13334.8	12470.9
62.5°	1858.6	1878.3	1949.3	2155.9	2995.5	4114.6	7994.5	13445.1	13751.8	13608.7	12841.2
65°	1722.1	1735.2	1824.0	1986.7	2683.2	3799.5	7378.4	13085.2	13645.2	13609.7	12983.3
67.5°	1571.6	1587.5	1671.6	1786.6	2284.0	3428.4	6348.1	12890.7	13194.6	13229.1	12716.8
70°	1394.9	1406.1	1493.1	1576.3	1954.0	3009.5	5046.7	12145.6	12499.9	12499.0	11894.1
72.5°	1204.2	1203.2	1289.3	1377.1	1637.0	2528.0	3951.0	10783.4	11721.1	11651.0	10723.6
75°	992.9	1006.9	1090.1	1159.3	1362.2	2049.3	2751.5	7811.3	10347.7	10444.0	9254.8
77.5°	634.8	644.2	690.9	762.0	952.7	1566.0	1795.1	4340.8	6909.1	8333.9	7284.9
80°	463.7	468.4	509.5	550.7	633.9	953.6	912.5	1886.7	2738.4	4091.2	4468.9
82.5°	316.0	316.9	349.7	359.0	363.7	430.1	432.9	918.1	1304.2	1536.1	1973.6
85°	209.4	173.9	135.6	179.5	184.2	158.0	154.3	414.2	647.0	776.0	731.1
87.5°	46.7	45.8	53.3	54.2	52.4	44.9	37.4	63.6	97.2	96.3	123.4
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°	3734.1	3734.1	3734.1	3734.1	3734.1	3734.1	3734.1	3734.1	3734.1	3734.1	3734.1
2.5°	3743.4	3738.8	3712.6	3657.4	3620.0	3581.7	3560.2	3547.1	3551.8	3530.3	3520.9
5°	3752.8	3729.4	3655.5	3590.1	3531.2	3464.8	3409.7	3402.2	3413.4	3393.8	3382.5
7.5°	3777.1	3727.5	3633.1	3520.9	3422.7	3360.1	3280.6	3240.4	3237.6	3218.0	3221.7
10°	3791.1	3726.6	3600.4	3464.8	3349.8	3238.6	3153.5	3108.6	3105.8	3077.8	3071.2
12.5°	3829.4	3736.9	3562.1	3396.6	3268.5	3119.8	3030.1	2988.9	2984.3	2945.0	2930.0
15°	3888.3	3760.3	3521.9	3317.1	3151.6	3012.3	2904.8	2849.6	2841.2	2795.4	2779.5
17.5°	3981.8	3826.6	3509.7	3245.1	3049.7	2897.3	2771.1	2711.3	2662.7	2637.4	2615.9
20°	4108.0	3908.9	3523.7	3177.8	2921.6	2745.9	2588.8	2510.3	2476.6	2435.5	2438.3
22.5°	4287.6	4037.9	3548.0	3125.4	2805.7	2584.1	2407.4	2319.5	2258.8	2224.2	2226.0
25°	4540.0	4232.4	3595.7	3075.9	2679.5	2407.4	2198.9	2076.5	2014.8	1992.3	1968.9
27.5°	4858.8	4465.2	3708.8	3015.1	2529.9	2207.4	1976.4	1833.4	1770.7	1737.1	1732.4
30°	5268.3	4770.9	3841.6	2970.2	2372.8	1957.7	1700.6	1587.5	1532.3	1484.7	1462.2
32.5°	5767.5	5202.8	3989.3	2925.4	2178.4	1678.2	1445.4	1358.4	1270.6	1209.8	1212.6
35°	6347.2	5673.1	4209.0	2868.3	1950.2	1417.3	1256.5	1144.3	1062.1	1021.9	1003.2
37.5°	6894.1	6155.5	4467.1	2810.4	1695.0	1248.1	1070.5	966.7	903.1	872.3	878.8
40°	7447.6	6652.9	4689.6	2668.3	1408.9	1094.8	886.3	827.4	802.2	777.9	780.7
42.5°	7943.1	7049.3	4852.2	2510.3	1208.9	919.0	755.4	768.5	783.5	769.4	765.7
45°	8459.2	7513.0	4995.3	2241.0	1041.5	780.7	722.7	759.2	791.9	790.0	785.3
47.5°	8977.1	7943.1	5009.3	1883.9	889.1	733.9	721.8	748.9	791.9	799.4	793.7
50°	9511.0	8393.7	4927.0	1463.2	824.6	739.5	722.7	727.4	775.1	783.5	780.7
52.5°	10102.8	8880.8	4724.2	1112.6	799.4	748.9	725.5	719.0	746.1	761.0	763.8
55°	10646.9	9267.9	4343.6	982.6	780.7	749.8	746.1	724.6	725.5	718.0	736.7
57.5°	11104.1	9637.2	3911.7	911.5	763.8	741.4	755.4	715.2	704.0	673.1	665.7
60°	11577.1	9937.3	3304.0	862.9	744.2	731.1	732.0	699.3	671.3	626.4	613.3
62.5°	11912.8	10096.2	2714.1	805.9	717.1	715.2	701.2	676.9	651.6	612.4	606.8
65°	12010.0	10012.1	2084.9	746.1	681.6	689.0	663.8	630.1	525.4	476.8	476.8
67.5°	11688.4	9494.1	1543.6	676.9	638.6	653.5	604.0	496.4	442.2	413.2	417.9
70°	10806.8	8657.4	1005.0	575.9	576.8	589.0	498.3	446.9	395.5	377.7	387.1
72.5°	9628.8	7416.7	662.9	459.0	486.2	465.6	455.3	411.4	365.6	345.0	351.5
75°	7934.7	5856.4	460.0	360.9	315.1	397.3	404.8	345.9	310.4	376.8	391.7
77.5°	6268.7	4070.7	379.6	252.4	232.8	293.6	324.4	320.7	513.3	603.0	596.5
80°	3727.5	2343.8	309.5	174.8	164.5	188.9	255.2	368.4	575.0	431.9	411.4
82.5°	1690.3	1065.8	164.5	91.6	107.5	125.3	190.7	458.1	376.8	276.7	260.8
85°	660.1	347.8	65.4	40.2	37.4	46.7	86.9	220.6	151.5	122.5	122.5
87.5°	85.1	62.6	18.7	14.0	12.2	15.0	28.0	122.5	71.1	59.8	58.0
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)