

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: P509877

Luminaire Tested: **VERD-M-CA3-160-727-U-T2**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509877
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-CA3-160-727-U-T2
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 1000mA LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19746 lumens
Efficiency: N/A
Efficacy: 121.4 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): 162.7
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

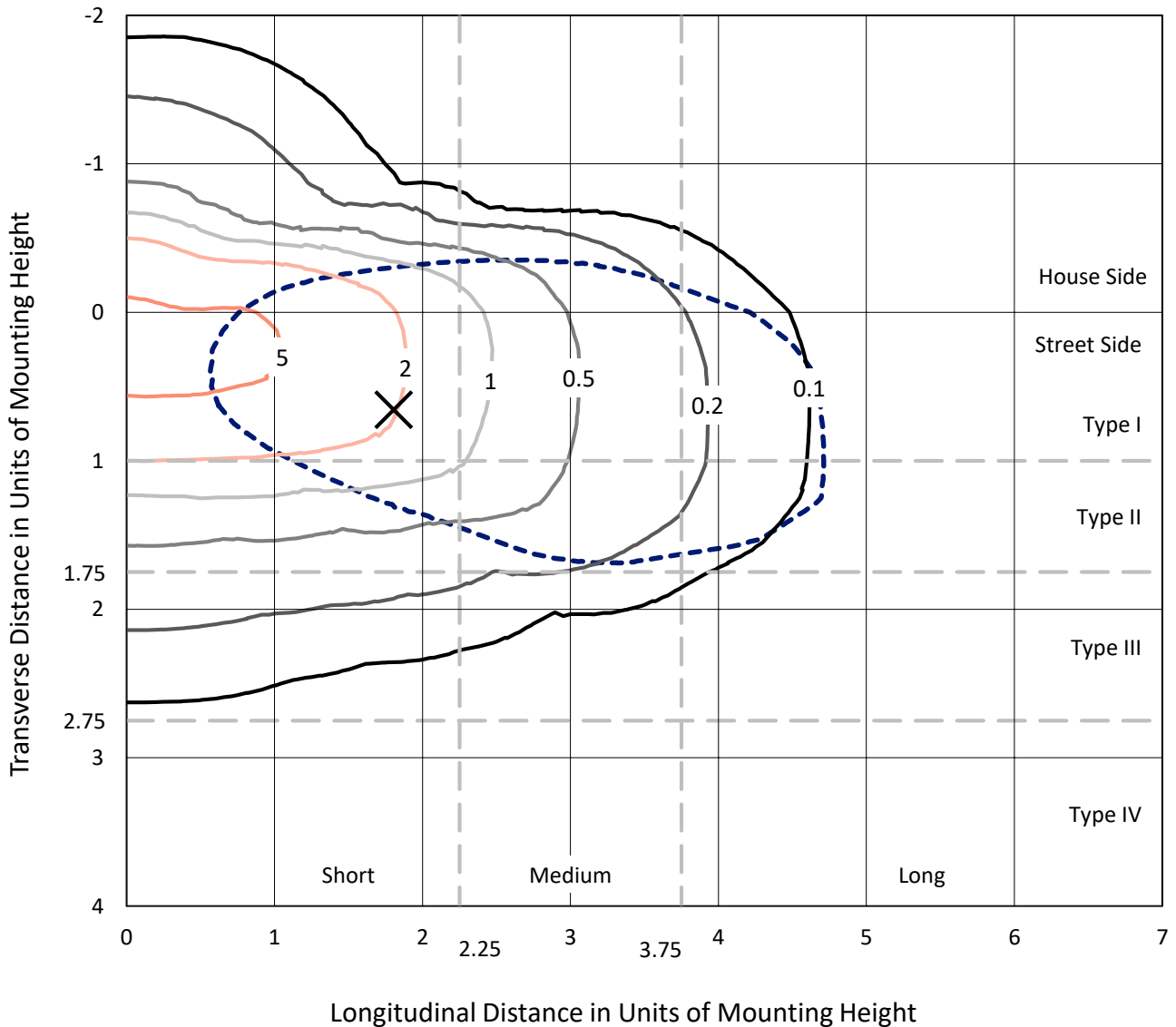


REPORT NUMBER: P509877

CATALOG NUMBER: VERD-M-CA3-160-727-U-T2

Iso-Footcandle Lines of Horizontal Illumination

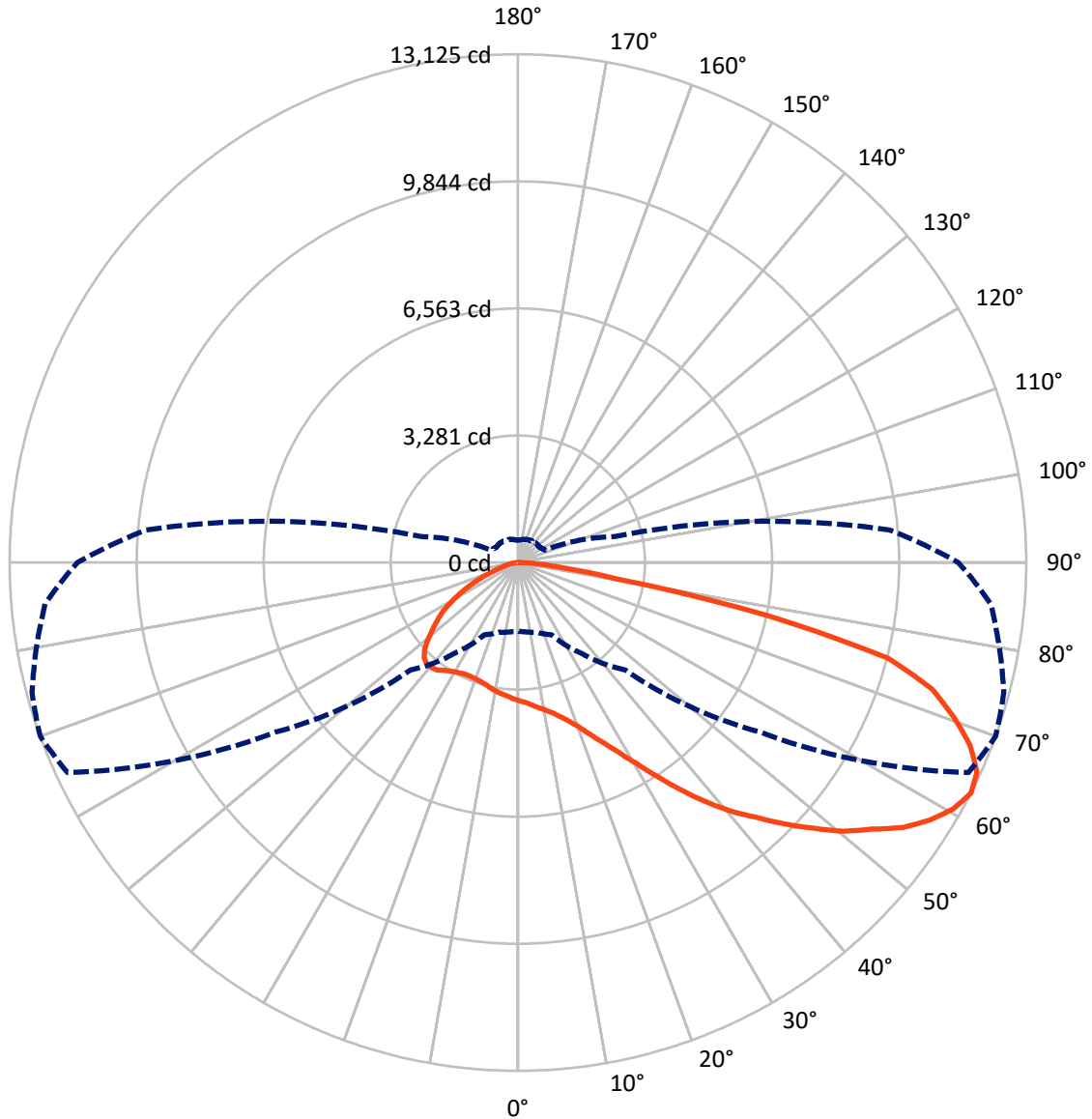
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type II - Short - N/A

REPORT NUMBER: P509877
CATALOG NUMBER: VERD-M-CA3-160-727-U-T2

Luminous Intensity Polar Plot



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

REPORT NUMBER: P509877

CATALOG NUMBER: VERD-M-CA3-160-727-U-T2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5112.3	0.0	5112.3
	% Fixture	25.9	0.0	25.9
Street Side	Lumens	14633.7	0.0	14633.7
	% Fixture	74.1	0.0	74.1
Total	Lumens	19746.0	0.0	19746.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	342.3	1.7
10°-20°	1039.5	5.3
20°-30°	1764.3	8.9
30°-40°	2552.8	12.9
40°-50°	3349.9	17.0
50°-60°	3914.2	19.8
60°-70°	3928.1	19.9
70°-80°	2503.0	12.7
80°-90°	351.8	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°	19746.0	100.0
0°-180°	19746.0	100.0

Coefficient of Utilization



REPORT NUMBER: P509877

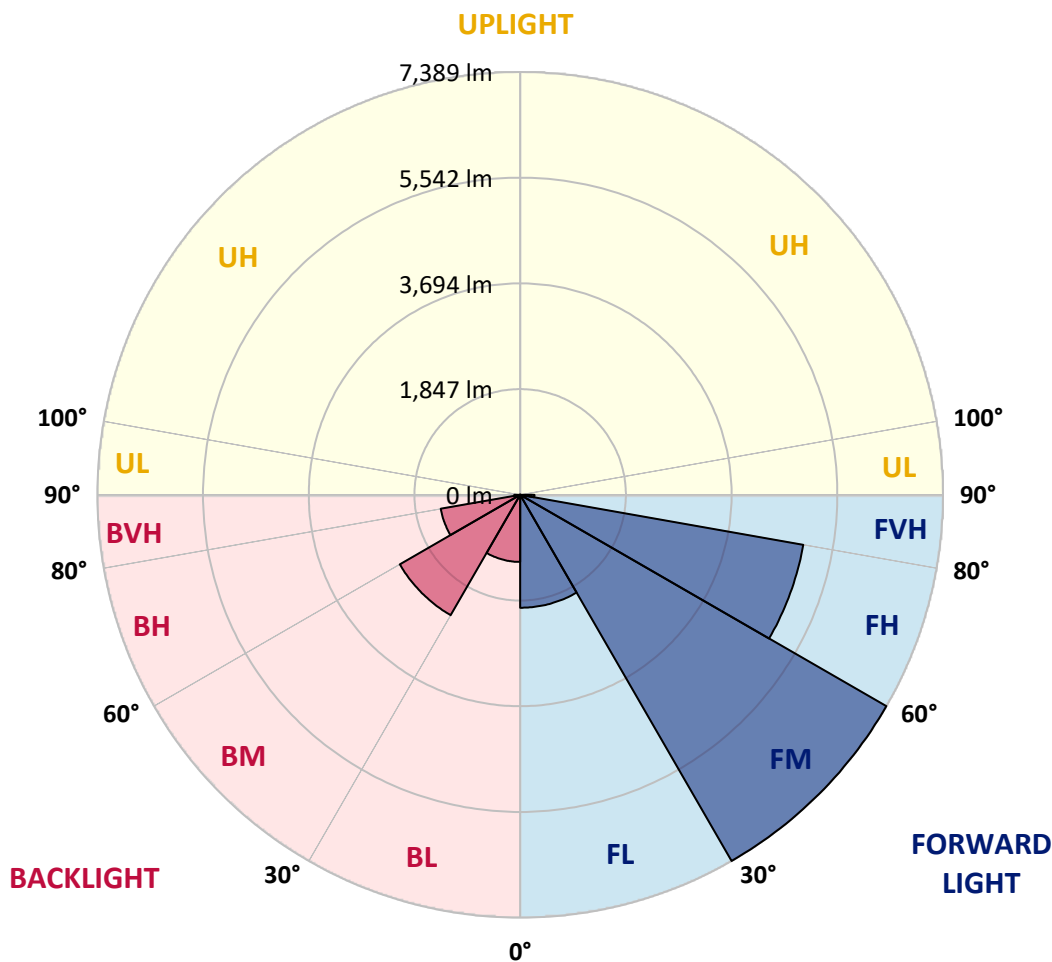
CATALOG NUMBER: VERD-M-CA3-160-727-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1973.6	10.0			
FM (30°-60°)	7388.7	37.4			
FH (60°-80°)	5023.2	25.4			G3/7500
FVH (80°-90°)	248.1	1.3			G3/500
BL (0°-30°)	1172.5	5.9	B3/2500		
BM (30°-60°)	2428.2	12.3	B2/2500		
BH (60°-80°)	1408.0	7.1	B3/2500		G3/2500
BVH (80°-90°)	103.6	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





REPORT NUMBER: P509877

CATALOG NUMBER: VERD-M-CA3-160-727-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	3563.9	3563.9	3563.9	3563.9	3563.9	3563.9	3563.9	3563.9	3563.9	3563.9	3563.9
2.5°	3700.4	3739.7	3734.3	3710.2	3727.2	3680.8	3663.8	3637.9	3611.2	3602.2	3587.1
5°	3875.3	3927.0	3917.2	3885.1	3884.2	3818.2	3780.7	3731.6	3690.6	3658.5	3611.2
7.5°	4038.6	4098.4	4089.5	4058.2	4056.4	3980.6	3903.0	3826.2	3778.9	3737.9	3651.3
10°	4211.7	4257.2	4249.2	4209.0	4201.0	4126.9	4035.9	3939.5	3869.9	3812.8	3689.7
12.5°	4371.4	4419.6	4423.2	4373.2	4360.7	4281.3	4201.9	4074.3	3984.2	3919.0	3737.9
15°	4520.4	4577.5	4566.8	4516.9	4503.5	4423.2	4345.5	4227.8	4134.1	4043.1	3816.4
17.5°	4640.0	4694.4	4681.1	4658.7	4651.6	4589.1	4524.9	4397.3	4314.3	4197.4	3937.8
20°	4722.1	4773.0	4778.3	4772.1	4813.1	4754.2	4718.5	4628.4	4537.4	4432.1	4103.7
22.5°	4754.2	4814.9	4866.7	4906.8	4991.6	4982.7	4976.4	4924.7	4835.4	4681.9	4323.2
25°	4764.0	4824.7	4905.0	5004.1	5155.8	5210.2	5249.5	5261.9	5164.7	5043.3	4596.3
27.5°	4765.8	4831.0	4913.1	5072.8	5303.9	5468.1	5561.8	5605.5	5551.1	5454.7	4967.5
30°	4728.3	4795.3	4900.6	5113.8	5419.9	5689.4	5844.6	6038.3	6015.1	5933.9	5432.4
32.5°	4620.4	4681.1	4826.5	5106.7	5535.0	5916.0	6157.8	6493.3	6571.9	6519.2	5968.7
35°	4426.7	4500.8	4689.1	5047.8	5597.5	6136.4	6526.3	7048.3	7190.2	7193.8	6626.3
37.5°	4231.3	4287.5	4508.8	4937.1	5632.3	6331.8	6876.1	7604.3	7810.4	7814.8	7173.3
40°	4023.4	4075.2	4318.8	4789.0	5596.6	6485.3	7201.8	8138.7	8434.1	8406.4	7710.4
42.5°	3753.9	3811.0	4052.9	4587.4	5507.3	6604.0	7532.9	8700.0	8983.8	9015.0	8270.8
45°	3523.7	3569.2	3780.7	4272.4	5344.0	6668.2	7843.4	9298.7	9623.5	9590.5	8868.7
47.5°	3240.0	3307.8	3533.5	4016.3	5050.5	6652.2	8140.5	9891.2	10252.6	10222.3	9387.1
50°	2499.4	2577.9	3102.6	3747.7	4675.7	6526.3	8410.0	10457.9	10906.7	10827.3	9935.9
52.5°	2270.0	2292.3	2501.1	3439.0	4306.3	6240.8	8608.1	11173.5	11439.4	11408.2	10491.8
55°	2129.9	2172.8	2268.2	2833.1	3974.3	5776.8	8745.5	11771.3	12071.2	11924.8	10995.0
57.5°	2006.8	2037.1	2150.5	2425.3	3592.4	5137.9	8705.4	12275.5	12543.2	12338.8	11486.7
60°	1875.6	1895.3	2008.6	2213.8	3180.2	4432.1	8297.6	12795.7	12914.4	12727.0	11902.5
62.5°	1773.9	1792.6	1860.5	2057.7	2859.0	3927.0	7630.1	12832.3	13125.0	12988.4	12255.9
65°	1643.6	1656.1	1740.9	1896.2	2560.9	3626.3	7042.1	12488.8	13023.2	12989.3	12391.5
67.5°	1500.0	1515.1	1595.4	1705.2	2179.9	3272.1	6058.8	12303.2	12593.2	12626.2	12137.2
70°	1331.3	1342.0	1425.0	1504.4	1864.9	2872.3	4816.7	11592.0	11930.2	11929.3	11351.9
72.5°	1149.3	1148.4	1230.5	1314.4	1562.4	2412.8	3770.9	10291.9	11186.9	11119.9	10234.8
75°	947.6	961.0	1040.4	1106.5	1300.1	1955.9	2626.1	7455.2	9876.1	9968.0	8833.0
77.5°	605.9	614.8	659.4	727.2	909.3	1494.6	1713.2	4143.0	6594.2	7954.0	6952.9
80°	442.6	447.0	486.3	525.6	605.0	910.2	870.9	1800.7	2613.6	3904.7	4265.2
82.5°	301.6	302.5	333.7	342.6	347.1	410.5	413.1	876.2	1244.8	1466.1	1883.7
85°	199.9	166.0	129.4	171.3	175.8	150.8	147.2	395.3	617.5	740.6	697.8
87.5°	44.6	43.7	50.9	51.8	50.0	42.8	35.7	60.7	92.8	91.9	117.8
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: P509877

CATALOG NUMBER: VERD-M-CA3-160-727-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3563.9	3563.9	3563.9	3563.9	3563.9	3563.9	3563.9	3563.9	3563.9	3563.9	3563.9
2.5°	3572.8	3568.3	3543.4	3490.7	3455.0	3418.4	3397.9	3385.4	3389.9	3369.4	3360.4
5°	3581.7	3559.4	3488.9	3426.5	3370.2	3306.9	3254.2	3247.1	3257.8	3239.1	3228.4
7.5°	3604.9	3557.6	3467.5	3360.4	3266.7	3207.0	3131.1	3092.7	3090.1	3071.3	3074.9
10°	3618.3	3556.7	3436.3	3306.9	3197.1	3091.0	3009.8	2966.9	2964.2	2937.5	2931.2
12.5°	3654.9	3566.6	3399.7	3241.8	3119.5	2977.6	2892.0	2852.7	2848.2	2810.8	2796.5
15°	3711.1	3588.9	3361.3	3165.9	3008.0	2875.0	2772.4	2719.8	2711.7	2668.0	2652.8
17.5°	3800.3	3652.2	3349.7	3097.2	2910.7	2765.3	2644.8	2587.7	2541.3	2517.2	2496.7
20°	3920.8	3730.7	3363.1	3033.0	2788.5	2620.7	2470.8	2395.8	2363.7	2324.5	2327.1
22.5°	4092.1	3853.9	3386.3	2983.0	2677.8	2466.3	2297.7	2213.8	2155.8	2122.8	2124.6
25°	4333.1	4039.5	3431.8	2935.7	2557.4	2297.7	2098.7	1981.8	1922.9	1901.5	1879.2
27.5°	4637.3	4261.7	3539.8	2877.7	2414.6	2106.7	1886.3	1749.8	1690.0	1657.9	1653.4
30°	5028.2	4553.5	3666.5	2834.9	2264.7	1868.5	1623.1	1515.1	1462.5	1417.0	1395.6
32.5°	5504.7	4965.7	3807.5	2792.0	2079.1	1601.7	1379.5	1296.5	1212.6	1154.6	1157.3
35°	6057.9	5414.5	4017.2	2737.6	1861.4	1352.7	1199.3	1092.2	1013.7	975.3	957.4
37.5°	6579.9	5875.0	4263.5	2682.3	1617.8	1191.2	1021.7	922.6	862.0	832.5	838.8
40°	7108.1	6349.7	4475.8	2546.6	1344.7	1044.9	845.9	789.7	765.6	742.4	745.1
42.5°	7581.1	6728.0	4631.1	2395.8	1153.8	877.1	721.0	733.5	747.8	734.4	730.8
45°	8073.6	7170.6	4767.6	2138.9	994.0	745.1	689.8	724.6	755.8	754.0	749.5
47.5°	8567.9	7581.1	4781.0	1798.0	848.6	700.5	688.9	714.7	755.8	762.9	757.6
50°	9077.5	8011.1	4702.5	1396.5	787.0	705.8	689.8	694.2	739.7	747.8	745.1
52.5°	9642.3	8476.0	4508.8	1061.8	762.9	714.7	692.4	686.2	712.1	726.3	729.0
55°	10161.6	8845.5	4145.7	937.8	745.1	715.6	712.1	691.5	692.4	685.3	703.1
57.5°	10597.9	9197.9	3733.4	870.0	729.0	707.6	721.0	682.6	671.9	642.5	635.3
60°	11049.5	9484.3	3153.4	823.6	710.3	697.8	698.7	667.4	640.7	597.8	585.4
62.5°	11369.8	9636.0	2590.4	769.2	684.4	682.6	669.2	646.0	621.9	584.5	579.1
65°	11462.6	9555.7	1989.8	712.1	650.5	657.6	633.5	601.4	501.5	455.1	455.1
67.5°	11155.6	9061.4	1473.2	646.0	609.4	623.7	576.4	473.8	422.1	394.4	398.9
70°	10314.2	8262.8	959.2	549.7	550.6	562.2	475.6	426.5	377.4	360.5	369.4
72.5°	9189.9	7078.7	632.6	438.1	464.0	444.4	434.6	392.6	348.9	329.3	335.5
75°	7573.0	5589.4	439.0	344.4	300.7	379.2	386.4	330.2	296.2	359.6	373.9
77.5°	5982.9	3885.1	362.3	240.9	222.2	280.2	309.6	306.1	489.9	575.5	569.3
80°	3557.6	2237.0	295.4	166.9	157.0	180.2	243.6	351.6	548.8	412.2	392.6
82.5°	1613.3	1017.2	157.0	87.4	102.6	119.6	182.0	437.2	359.6	264.1	249.0
85°	630.0	331.9	62.5	38.4	35.7	44.6	83.0	210.6	144.6	116.9	116.9
87.5°	81.2	59.8	17.8	13.4	11.6	14.3	26.8	116.9	67.8	57.1	55.3
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)