

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: P233844

Luminaire Tested: **VERD-G-C02H-D-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233844
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-10)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-C02H-D-U-T2
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1370mA LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18985 lumens
Efficiency: N/A
Efficacy: 122.5 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 155
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: 28.75 FT

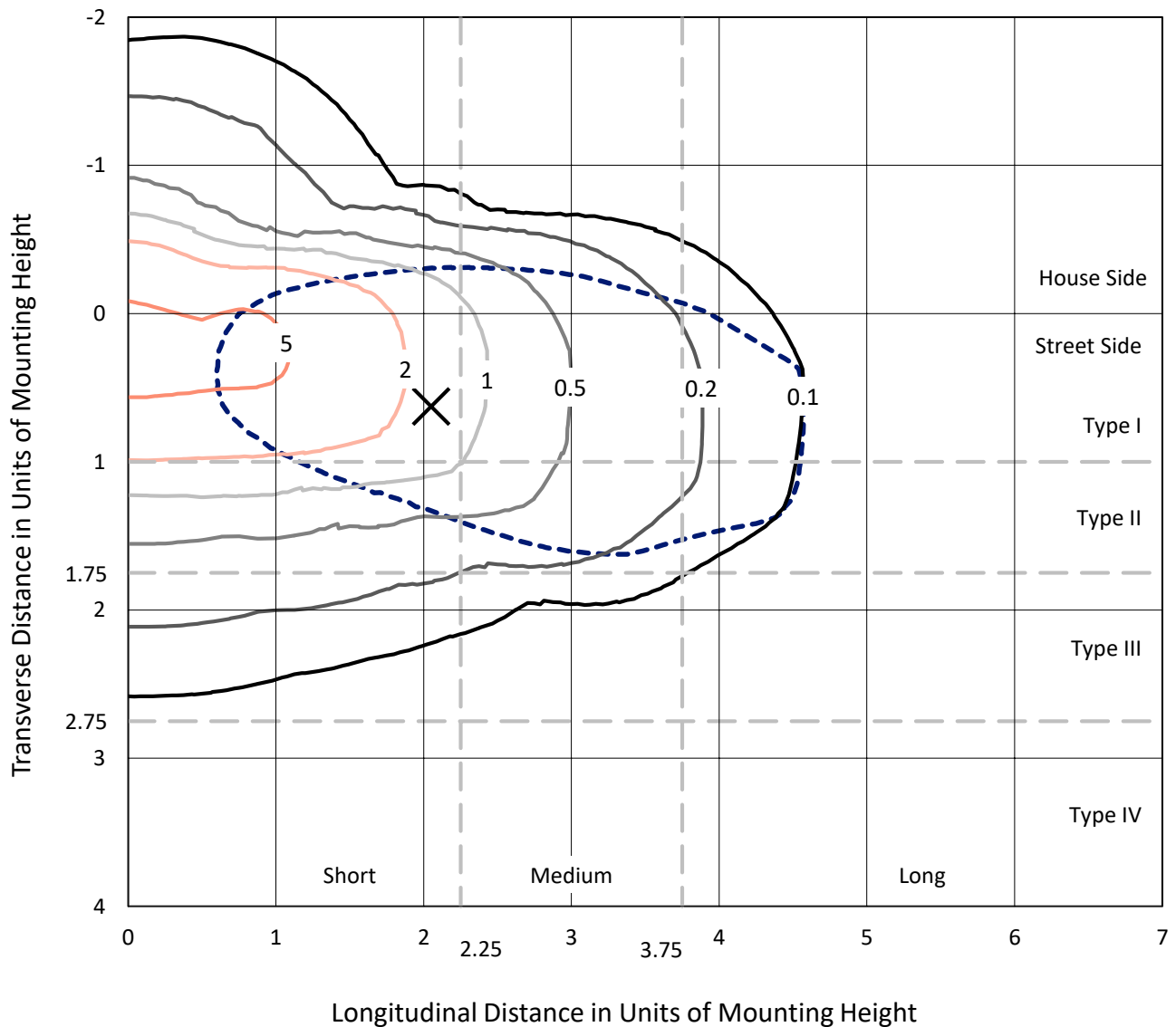


REPORT NUMBER: P233844

CATALOG NUMBER: VERD-G-C02H-D-U-T2

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

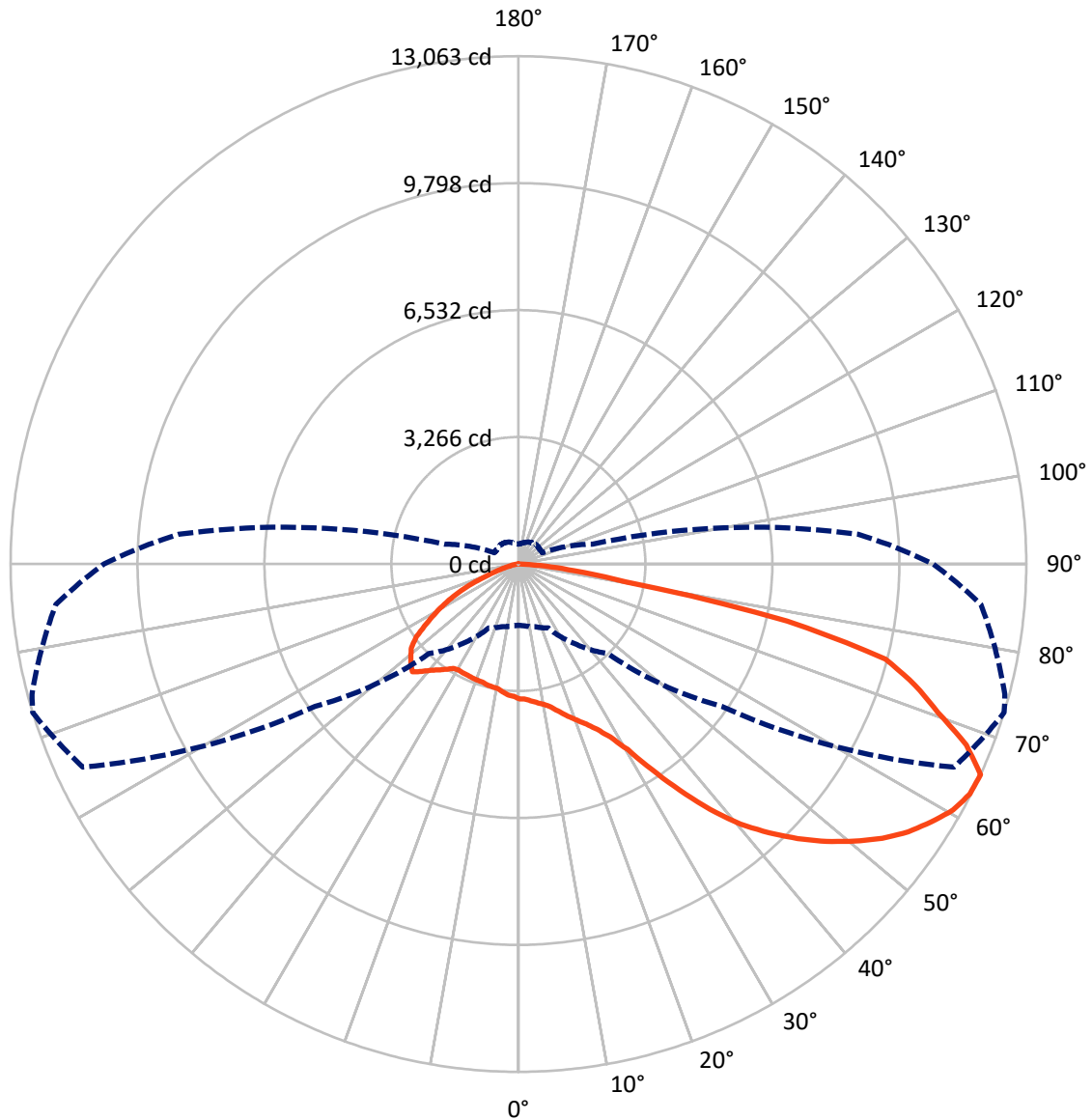


Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type II - Short - Non-Cutoff

REPORT NUMBER: P233844

CATALOG NUMBER: VERD-G-C02H-D-U-T2

Luminous Intensity Polar Plot



— Vertical Plane Through 73-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P233844

CATALOG NUMBER: VERD-G-C02H-D-U-T2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4866.7	0.0	4866.7
	% Fixture	25.6	0.0	25.6
Street Side	Lumens	14118.3	0.0	14118.3
	% Fixture	74.4	0.0	74.4
Total	Lumens	18985.0	0.0	18985.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	331.2	1.7
10°-20°	1001.6	5.3
20°-30°	1680.1	8.8
30°-40°	2463.9	13.0
40°-50°	3330.0	17.5
50°-60°	3857.5	20.3
60°-70°	3768.1	19.8
70°-80°	2262.8	11.9
80°-90°	289.8	1.5
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°	18985.0	100.0
0°-180°	18985.0	100.0



REPORT NUMBER: P233844

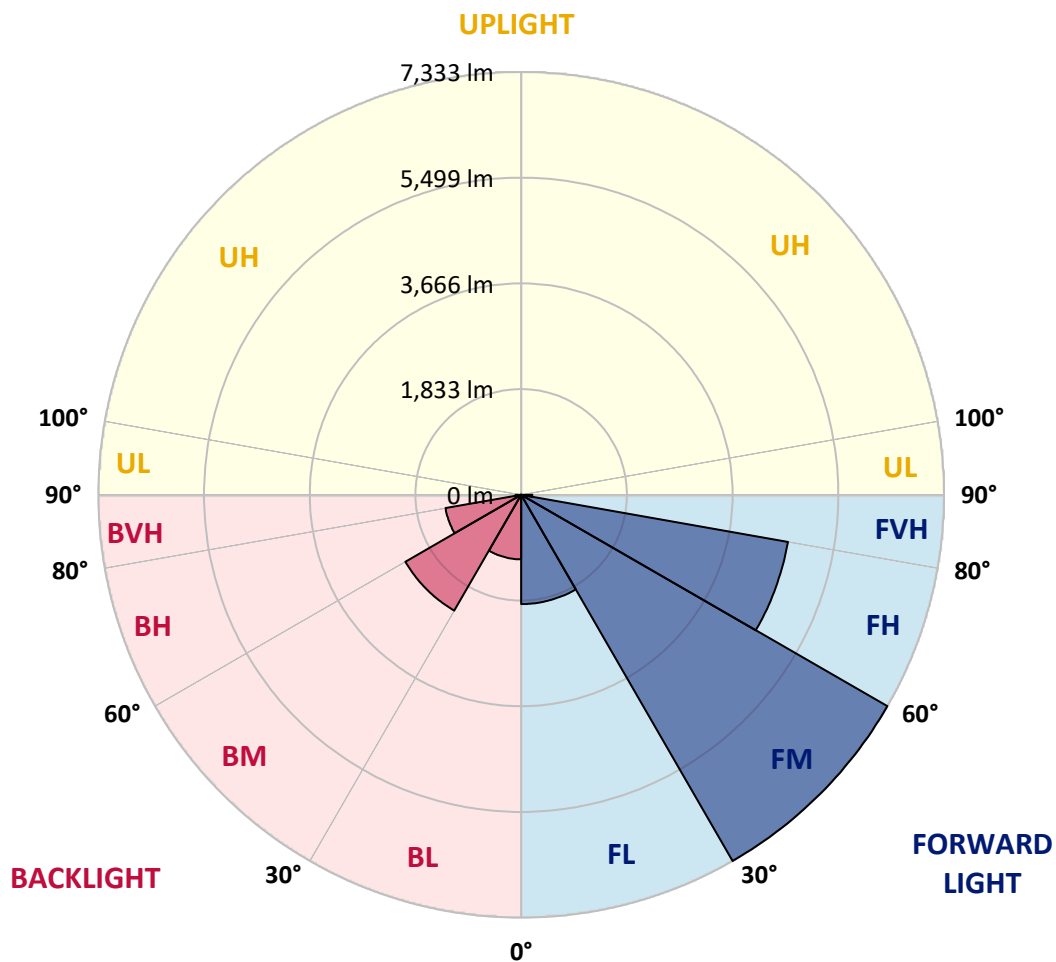
CATALOG NUMBER: VERD-G-C02H-D-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1894.4	10.0			
FM (30°-60°)	7332.6	38.6			
FH (60°-80°)	4698.4	24.7			G2/5000
FVH (80°-90°)	193.0	1.0			G2/225
BL (0°-30°)	1118.6	5.9	B3/2500		
BM (30°-60°)	2318.8	12.2	B2/2500		
BH (60°-80°)	1332.5	7.0	B3/2500		G3/2500
BVH (80°-90°)	96.8	0.5			G1/100
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: P233844

CATALOG NUMBER: VERD-G-C02H-D-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	3471.4	3471.4	3471.4	3471.4	3471.4	3471.4	3471.4	3471.4	3471.4	3471.4	3471.4
2.5°	3685.1	3698.9	3683.4	3638.6	3616.2	3600.7	3554.1	3512.8	3480.0	3476.6	3445.5
5°	3826.5	3847.1	3821.3	3764.4	3742.0	3709.3	3657.5	3600.7	3542.1	3530.0	3467.9
7.5°	4005.7	4009.2	3995.4	3938.5	3892.0	3823.0	3733.4	3673.1	3605.8	3586.9	3488.6
10°	4157.4	4155.7	4138.4	4083.3	4036.7	3976.4	3850.6	3752.3	3673.1	3648.9	3512.8
12.5°	4302.2	4298.7	4281.5	4224.6	4166.0	4116.0	4021.2	3888.5	3781.6	3750.6	3581.7
15°	4481.4	4472.8	4445.2	4369.4	4322.9	4264.3	4195.3	4062.6	3940.2	3897.1	3681.7
17.5°	4619.3	4617.6	4596.9	4533.2	4478.0	4414.2	4350.4	4247.0	4114.3	4066.0	3779.9
20°	4698.6	4691.7	4686.6	4636.6	4622.8	4588.3	4497.0	4417.7	4284.9	4235.0	3890.2
22.5°	4783.1	4784.8	4786.5	4760.7	4800.3	4771.0	4703.8	4607.3	4472.8	4415.9	4045.4
25°	4802.0	4805.5	4840.0	4896.8	4945.1	4998.5	4950.3	4855.5	4710.7	4650.4	4257.4
27.5°	4748.6	4762.4	4865.8	4962.3	5133.0	5201.9	5193.3	5188.1	5039.9	4979.6	4548.7
30°	4796.9	4796.9	4867.5	5033.0	5248.5	5429.4	5469.1	5579.4	5534.6	5491.5	5038.2
32.5°	4652.1	4677.9	4803.8	5034.7	5376.0	5639.7	5819.0	6125.8	6303.3	6267.1	5731.1
35°	4379.7	4414.2	4598.6	4952.0	5439.8	5887.9	6208.5	6799.7	7142.7	7185.8	6565.3
37.5°	4169.5	4198.8	4429.7	4822.7	5463.9	6120.6	6658.4	7558.1	8001.1	7978.7	7272.0
40°	3912.6	3964.4	4197.0	4669.3	5407.0	6318.8	7146.2	8254.5	8799.1	8695.7	7944.2
42.5°	3681.7	3726.5	3921.3	4424.6	5327.7	6430.9	7587.4	8971.5	9448.9	9366.2	8580.2
45°	3436.9	3476.6	3657.5	4131.5	5143.3	6486.0	8001.1	9657.5	10072.9	9979.8	9169.7
47.5°	3156.0	3209.4	3424.9	3855.8	4872.7	6451.6	8302.7	10253.9	10665.8	10596.9	9657.5
50°	2447.6	2502.7	3066.3	3597.2	4497.0	6308.5	8573.3	10850.3	11201.9	11136.4	10088.4
52.5°	2221.8	2245.9	2421.7	3300.8	4105.7	6025.8	8742.3	11341.5	11724.1	11658.6	10495.2
55°	2083.9	2101.1	2199.4	2695.8	3773.0	5570.8	8762.9	11851.7	12163.7	12077.5	10927.8
57.5°	1942.5	1961.5	2070.1	2325.2	3438.6	4858.9	8544.0	12284.3	12520.5	12427.4	11341.5
60°	1823.6	1833.9	1940.8	2116.6	3061.2	4152.2	7980.4	12579.1	12849.7	12729.0	11746.6
62.5°	1715.0	1728.8	1806.4	1966.7	2744.0	3623.1	7194.4	12580.8	13030.7	12956.5	11951.7
65°	1573.7	1594.4	1670.2	1815.0	2487.2	3261.1	6380.9	12361.9	13063.4	12953.1	11941.3
67.5°	1409.9	1435.8	1504.7	1620.2	2145.9	2875.0	5246.7	12074.0	12423.9	12405.0	11448.4
70°	1246.2	1246.2	1323.7	1416.8	1780.5	2461.3	4145.3	11048.5	11448.4	11477.7	10564.1
72.5°	1051.4	1054.9	1115.2	1196.2	1434.1	2020.1	3019.8	9445.5	10672.7	10317.7	9528.2
75°	882.5	879.1	941.1	1008.3	1166.9	1590.9	1970.1	6939.3	9754.0	9833.3	8385.5
77.5°	468.8	451.6	530.9	584.3	684.3	884.2	1092.8	3480.0	7063.4	7218.6	6713.5
80°	132.7	134.4	351.6	393.0	449.9	437.8	506.7	1327.2	2794.0	3149.1	3914.4
82.5°	79.3	91.4	199.9	234.4	175.8	113.8	193.0	737.7	1446.1	1620.2	1942.5
85°	41.4	44.8	70.7	87.9	67.2	56.9	58.6	310.3	703.2	715.3	775.6
87.5°	19.0	19.0	25.9	27.6	17.2	10.3	6.9	5.2	5.2	3.4	3.4
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: P233844

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3471.4	3471.4	3471.4	3471.4	3471.4	3471.4	3471.4	3471.4	3471.4	3471.4	3471.4
2.5°	3421.4	3438.6	3409.3	3386.9	3369.7	3359.4	3347.3	3318.0	3326.6	3338.7	3337.0
5°	3438.6	3447.3	3395.6	3324.9	3259.4	3212.8	3181.8	3135.3	3135.3	3154.2	3154.2
7.5°	3454.2	3442.1	3337.0	3218.0	3143.9	3106.0	3056.0	3006.0	2997.4	3011.2	3012.9
10°	3462.8	3411.1	3264.6	3154.2	3057.7	2980.2	2916.4	2859.5	2857.8	2876.7	2880.2
12.5°	3500.7	3400.7	3259.4	3107.7	2962.9	2880.2	2804.3	2740.6	2718.2	2719.9	2723.3
15°	3559.3	3442.1	3252.5	3043.9	2887.1	2776.8	2666.5	2585.4	2564.8	2592.3	2602.7
17.5°	3630.0	3509.3	3219.7	2985.3	2794.0	2661.3	2551.0	2478.6	2413.1	2383.8	2378.6
20°	3723.0	3566.2	3237.0	2899.1	2704.4	2526.8	2389.0	2301.0	2245.9	2242.4	2239.0
22.5°	3845.4	3630.0	3240.4	2842.3	2563.0	2378.6	2208.0	2158.0	2059.7	2023.5	2039.1
25°	4007.4	3726.5	3231.8	2781.9	2454.5	2206.2	2001.1	1909.8	1873.6	1832.2	1835.7
27.5°	4216.0	3879.9	3254.2	2702.7	2276.9	1996.0	1766.7	1668.5	1613.3	1578.8	1584.0
30°	4640.0	4112.6	3252.5	2626.8	2113.2	1778.8	1520.2	1454.7	1399.6	1368.6	1384.1
32.5°	5243.3	4617.6	3324.9	2525.1	1927.0	1487.5	1313.4	1239.3	1192.8	1158.3	1166.9
35°	5989.6	5167.4	3511.0	2387.2	1715.0	1265.1	1146.2	1054.9	998.0	984.2	979.0
37.5°	6682.5	5653.5	3686.8	2295.9	1472.0	1142.8	992.8	901.5	851.5	868.7	868.7
40°	7301.3	6298.2	3885.1	2149.4	1251.4	1003.2	822.2	780.8	755.0	784.3	794.6
42.5°	7768.4	6916.9	4154.0	1956.3	1072.1	837.7	703.2	732.5	742.9	763.6	758.4
45°	8347.5	7270.3	4419.4	1777.1	915.2	698.1	679.1	739.4	763.6	782.5	773.9
47.5°	8880.2	7544.3	4366.0	1446.1	770.5	675.7	691.2	739.4	780.8	811.8	806.7
50°	9338.6	7887.3	4264.3	1123.8	739.4	696.3	703.2	720.5	782.5	803.2	803.2
52.5°	9624.8	8226.9	4138.4	908.4	761.8	722.2	710.1	708.4	749.8	765.3	751.5
55°	9969.5	8578.5	3812.7	842.9	770.5	739.4	729.1	713.6	725.6	713.6	720.5
57.5°	10352.1	8925.0	3312.8	823.9	765.3	734.3	789.4	706.7	699.8	656.7	646.4
60°	10688.2	9061.1	2875.0	780.8	737.7	720.5	734.3	698.1	663.6	606.7	584.3
62.5°	10814.1	9049.1	2430.3	736.0	696.3	699.8	698.1	672.2	641.2	584.3	570.5
65°	10662.4	8773.3	1970.1	682.6	663.6	677.4	660.2	622.2	570.5	524.0	511.9
67.5°	10148.7	8070.0	1463.4	611.9	610.2	636.0	624.0	572.2	515.4	479.2	479.2
70°	9166.3	7204.8	948.0	508.5	546.4	591.2	591.2	536.0	461.9	430.9	439.5
72.5°	8090.7	6199.9	613.6	377.5	430.9	536.0	532.6	494.7	425.7	386.1	387.8
75°	7008.3	4919.2	396.4	260.3	279.2	456.8	472.3	403.3	330.9	282.7	274.1
77.5°	5327.7	3700.6	251.7	151.7	177.5	279.2	358.5	336.1	337.8	411.9	408.5
80°	3276.6	2230.4	182.7	74.1	87.9	182.7	289.6	320.6	449.9	296.5	272.3
82.5°	1640.9	1042.8	96.5	44.8	50.0	81.0	172.4	384.4	327.5	196.5	186.2
85°	613.6	281.0	29.3	22.4	27.6	41.4	70.7	351.6	208.6	156.9	153.4
87.5°	3.4	5.2	5.2	6.9	10.3	12.1	25.9	167.2	105.1	75.8	72.4
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)