

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: P509509

Luminaire Tested: **VERD-G-CA2-110-740-U-T2**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509509  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/6/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-G-CA2-110-740-U-T2  
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 4000K, 1020mA LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16578 lumens  
Efficiency: N/A  
Efficacy: 146.4 lumens/watt  
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

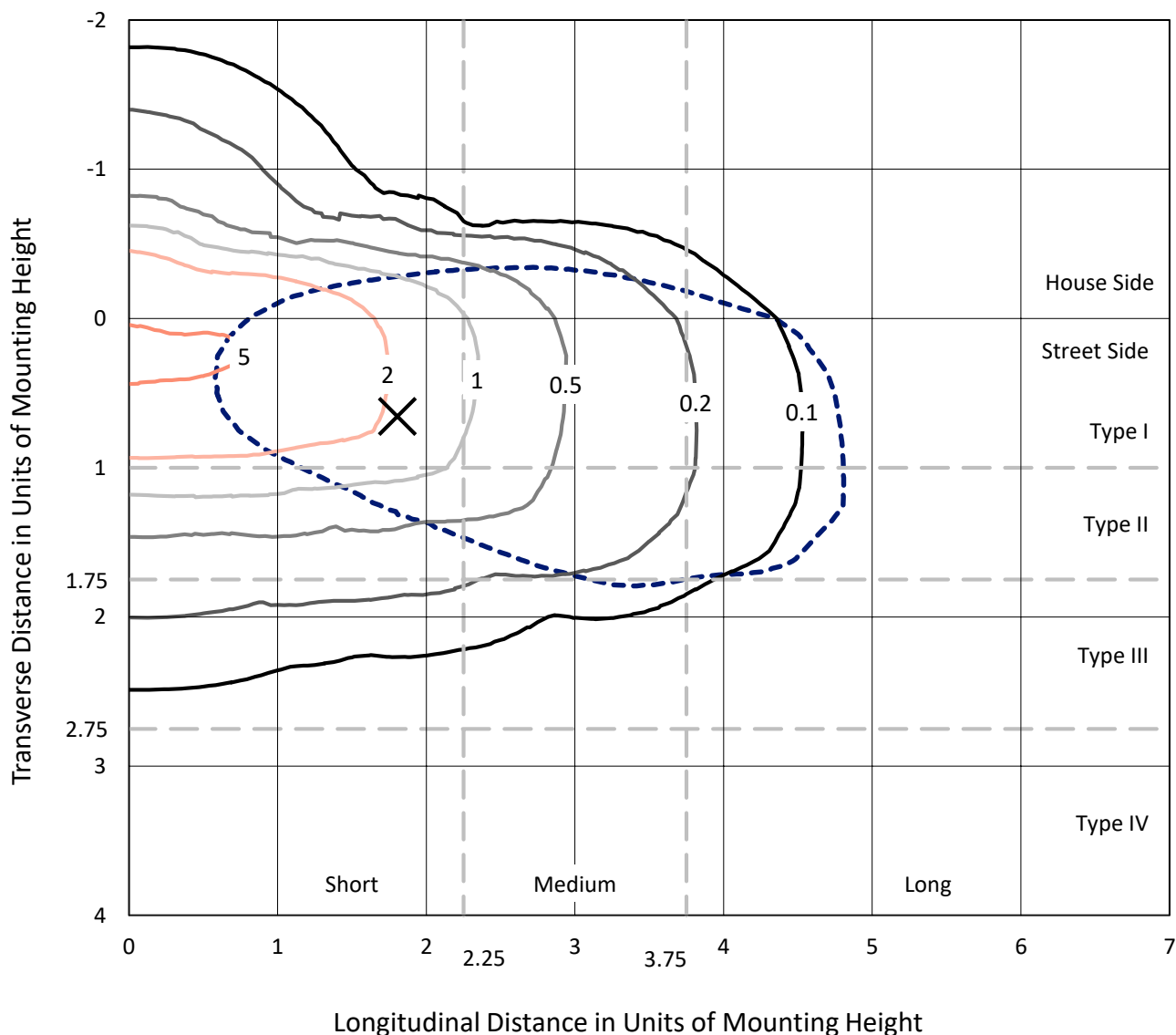
Input Watts (W): 113.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

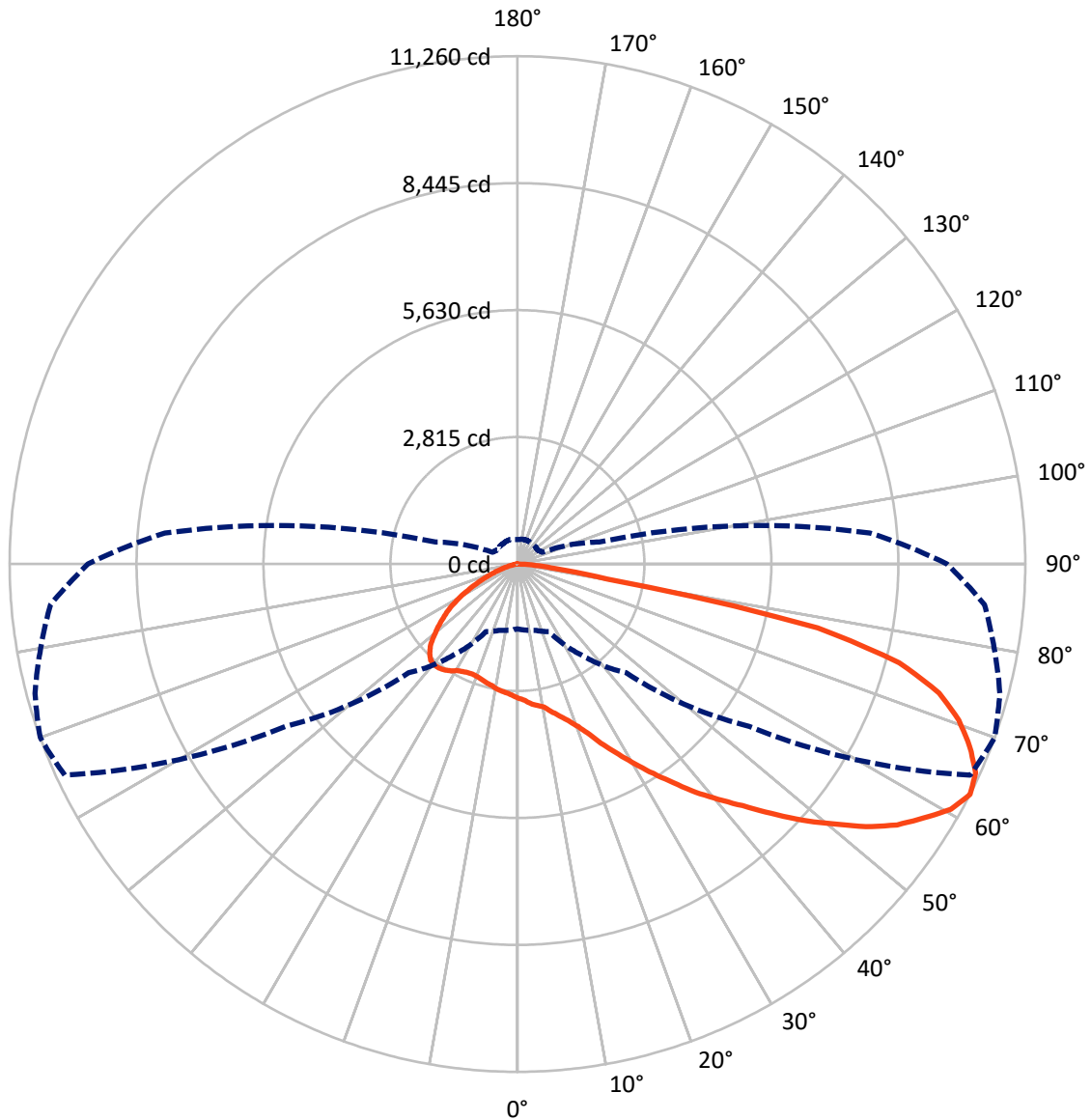
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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
<b>House Side</b>	Lumens	4236.2	0.0	4236.2
	% Fixture	25.6	0.0	25.6
<b>Street Side</b>	Lumens	12341.7	0.0	12341.7
	% Fixture	74.4	0.0	74.4
<b>Total</b>	Lumens	16578.0	0.0	16578.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	287.3	1.7
10°-20°	874.0	5.3
20°-30°	1485.6	9.0
30°-40°	2137.8	12.9
40°-50°	2774.2	16.7
50°-60°	3252.0	19.6
60°-70°	3335.0	20.1
70°-80°	2188.4	13.2
80°-90°	243.8	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°	16578.0	100.0
0°-180°	16578.0	100.0

**Coefficient of Utilization**



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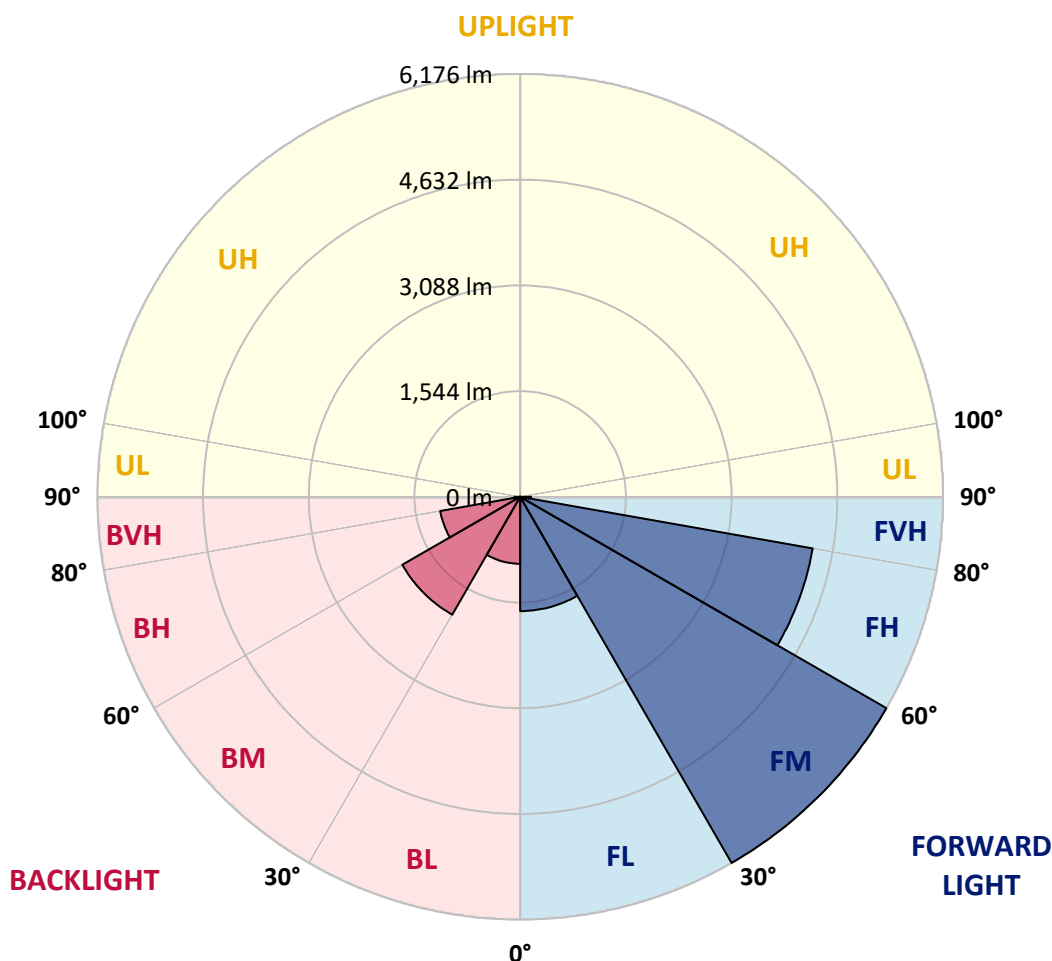
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1668.7	10.1			
FM (30°-60°)	6175.8	37.3			
FH (60°-80°)	4338.3	26.2			G2/5000
FVH (80°-90°)	159.0	1.0			G2/225
BL (0°-30°)	978.2	5.9	B2/1000		
BM (30°-60°)	1988.2	12.0	B2/2500		
BH (60°-80°)	1185.0	7.1	B3/2500		G3/2500
BVH (80°-90°)	84.8	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2975.3	2975.3	2975.3	2975.3	2975.3	2975.3	2975.3	2975.3	2975.3	2975.3	2975.3
2.5°	3166.7	3178.6	3159.0	3140.6	3122.1	3111.2	3092.7	3040.6	3022.1	3005.8	2973.2
5°	3330.8	3347.1	3318.8	3260.1	3246.0	3200.4	3175.3	3130.8	3112.3	3084.0	3029.7
7.5°	3523.2	3525.4	3485.2	3466.7	3419.9	3358.0	3278.6	3197.1	3169.9	3140.6	3072.1
10°	3635.2	3658.0	3618.9	3561.3	3528.6	3473.2	3389.5	3281.9	3222.1	3169.9	3093.8
12.5°	3792.8	3798.2	3735.2	3702.6	3659.1	3589.5	3508.0	3414.5	3355.8	3259.1	3121.0
15°	3908.0	3911.3	3854.8	3820.0	3778.7	3737.4	3649.3	3551.5	3493.9	3397.1	3187.3
17.5°	3990.7	4004.8	3970.0	3945.0	3901.5	3872.2	3802.6	3725.4	3650.4	3563.4	3325.4
20°	4080.9	4088.5	4024.4	4035.2	4027.6	4014.6	3982.0	3909.1	3848.3	3733.0	3436.2
22.5°	4105.9	4092.8	4110.2	4152.6	4173.3	4188.5	4178.7	4162.4	4107.0	3963.5	3646.1
25°	4068.9	4085.2	4126.5	4218.9	4334.2	4402.7	4451.6	4463.5	4447.2	4310.3	3926.5
27.5°	4059.1	4051.5	4118.9	4276.6	4470.1	4629.9	4726.6	4817.9	4776.6	4690.7	4242.9
30°	4017.8	4014.6	4133.1	4295.0	4544.0	4840.8	5013.6	5168.0	5148.4	5061.4	4613.6
32.5°	3916.7	3938.5	4029.8	4310.3	4657.0	5045.1	5256.0	5509.3	5538.7	5474.5	4988.6
35°	3786.3	3793.9	3939.6	4270.0	4745.1	5224.5	5531.0	5883.3	5951.7	5949.6	5410.4
37.5°	3621.1	3664.5	3820.0	4170.0	4783.1	5388.6	5795.2	6281.1	6418.1	6397.4	5832.2
40°	3455.8	3483.0	3666.7	4042.8	4786.4	5498.4	6019.1	6706.2	6858.4	6861.6	6312.7
42.5°	3208.0	3253.6	3446.0	3875.4	4713.6	5591.9	6242.0	7151.9	7324.7	7349.7	6758.4
45°	3001.4	3016.6	3187.3	3615.6	4555.9	5641.9	6489.8	7608.4	7887.8	7867.2	7145.4
47.5°	2734.0	2793.8	2974.2	3369.9	4309.2	5650.6	6705.1	8138.9	8484.6	8436.8	7672.6
50°	2115.5	2181.8	2673.1	3148.2	3997.2	5551.7	6877.9	8769.4	9051.0	8999.9	8121.5
52.5°	1865.4	1898.0	2097.0	2889.4	3673.2	5315.8	7016.0	9367.3	9675.0	9517.4	8646.6
55°	1758.9	1774.1	1864.3	2363.3	3387.3	4928.8	7095.3	10038.1	10210.9	9977.2	9135.8
57.5°	1643.7	1679.5	1725.2	1991.5	3068.8	4392.9	7046.4	10594.6	10622.9	10390.3	9553.2
60°	1535.0	1550.2	1644.7	1785.0	2702.5	3839.6	6770.3	10941.4	11041.4	10755.5	10055.5
62.5°	1438.2	1465.4	1520.8	1652.4	2457.9	3409.1	6279.0	11075.1	11259.9	11074.0	10394.6
65°	1346.9	1355.6	1418.6	1538.2	2187.2	3197.1	5995.2	10864.2	11164.3	11134.9	10543.6
67.5°	1239.3	1249.1	1304.5	1387.1	1849.1	2961.2	5256.0	10566.4	10818.6	10918.6	10458.8
70°	1099.0	1106.6	1171.9	1220.8	1550.2	2613.3	4413.5	10109.8	10382.7	10290.3	9889.1
72.5°	938.1	950.1	1002.3	1063.2	1289.3	2203.5	3456.9	9154.3	9779.3	9718.5	9043.4
75°	757.7	776.2	818.6	891.4	1047.9	1750.2	2447.0	7407.3	8742.3	8833.6	7804.1
77.5°	358.7	377.2	415.3	476.1	634.9	1220.8	1339.3	4175.5	6808.4	7373.6	6283.3
80°	117.4	119.6	281.6	321.8	403.3	752.3	546.8	1362.1	2016.5	3410.2	3379.7
82.5°	63.1	68.5	152.2	187.0	202.2	202.2	159.8	601.2	849.0	1038.2	1202.3
85°	33.7	34.8	53.3	64.1	69.6	55.4	41.3	247.9	397.9	496.8	492.4
87.5°	14.1	15.2	16.3	14.1	12.0	7.6	5.4	4.3	4.3	4.3	4.3
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°	2975.3	2975.3	2975.3	2975.3	2975.3	2975.3	2975.3	2975.3	2975.3	2975.3	2975.3
2.5°	2956.8	2941.6	2934.0	2902.5	2867.7	2830.7	2801.4	2802.5	2825.3	2842.7	2841.6
5°	2990.5	2952.5	2905.8	2831.8	2801.4	2774.2	2741.6	2698.1	2712.3	2729.6	2742.7
7.5°	3009.0	2960.1	2897.1	2787.3	2737.3	2678.6	2648.1	2591.6	2567.7	2585.1	2585.1
10°	3002.5	2952.5	2843.8	2763.3	2665.5	2573.1	2512.2	2498.1	2477.4	2474.2	2473.1
12.5°	3046.0	2972.1	2811.2	2692.7	2603.5	2485.1	2419.8	2406.8	2411.1	2384.0	2388.3
15°	3088.4	3004.7	2782.9	2660.1	2522.0	2382.9	2330.7	2282.9	2304.6	2281.8	2287.2
17.5°	3164.5	3063.4	2767.7	2594.9	2417.7	2297.0	2203.5	2149.1	2147.0	2143.7	2135.0
20°	3251.4	3111.2	2765.5	2538.3	2332.9	2189.4	2055.7	1995.9	1952.4	1967.6	1968.7
22.5°	3409.1	3201.4	2788.4	2486.1	2214.4	2053.5	1916.5	1825.2	1773.0	1781.7	1782.8
25°	3633.0	3390.6	2848.1	2441.6	2115.5	1895.9	1761.1	1645.8	1582.8	1583.9	1601.3
27.5°	3958.0	3616.7	2943.8	2403.5	2010.0	1746.9	1564.3	1451.2	1382.8	1381.7	1393.6
30°	4279.8	3899.3	3080.8	2349.2	1876.3	1546.9	1340.4	1250.1	1207.7	1179.5	1186.0
32.5°	4598.3	4202.6	3259.1	2320.9	1719.8	1311.0	1138.2	1076.2	1022.9	970.8	976.2
35°	4959.2	4487.5	3438.4	2264.4	1531.7	1115.3	994.7	909.9	841.4	814.2	808.8
37.5°	5383.2	4819.0	3562.3	2216.5	1308.8	983.8	837.0	774.0	729.4	700.1	695.7
40°	5757.2	5097.3	3699.3	2104.6	1094.7	865.3	699.0	665.3	659.9	637.0	633.8
42.5°	6135.5	5438.6	3792.8	1957.8	947.9	714.2	597.9	617.5	647.9	633.8	633.8
45°	6521.4	5795.2	3811.3	1738.2	807.7	604.4	572.9	609.8	652.2	655.5	654.4
47.5°	6944.2	6111.5	3847.2	1424.1	707.7	576.2	568.5	599.0	653.3	672.9	668.6
50°	7423.6	6454.0	3747.2	1086.0	647.9	579.4	572.9	587.0	645.7	667.5	659.9
52.5°	7890.0	6783.4	3581.9	828.4	609.8	582.7	595.7	584.8	627.2	649.0	657.7
55°	8322.7	7146.4	3231.9	737.0	583.8	578.3	614.2	594.6	609.8	616.4	628.3
57.5°	8760.7	7413.9	2860.1	691.4	569.6	572.9	603.3	594.6	604.4	596.8	587.0
60°	9171.7	7695.4	2380.7	649.0	554.4	569.6	581.6	579.4	585.9	571.8	565.3
62.5°	9520.6	7847.6	1879.6	612.0	541.4	554.4	552.2	563.1	564.2	547.9	543.5
65°	9680.4	7912.8	1434.9	578.3	521.8	534.8	524.0	526.1	527.2	505.5	504.4
67.5°	9518.4	7554.1	983.8	528.3	501.1	517.4	496.8	493.5	485.9	464.2	465.3
70°	9045.6	6955.1	656.6	456.6	456.6	484.8	472.9	465.3	446.8	426.1	432.7
72.5°	7988.9	5937.6	426.1	368.5	401.1	446.8	441.4	430.5	387.0	328.3	330.5
75°	6833.4	4712.5	283.7	268.5	306.6	387.0	367.4	341.3	323.9	342.4	365.3
77.5°	5321.2	3004.7	158.7	154.4	181.5	271.8	306.6	312.0	441.4	524.0	518.5
80°	2762.3	1526.3	92.4	76.1	107.6	182.6	241.3	328.3	547.9	413.1	400.0
82.5°	1086.0	571.8	56.5	40.2	47.8	75.0	159.8	471.8	415.3	208.7	200.0
85°	371.8	129.4	22.8	20.7	22.8	31.5	63.1	422.9	215.2	132.6	126.1
87.5°	4.3	4.3	5.4	6.5	7.6	7.6	17.4	201.1	100.0	62.0	59.8
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)