

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: P509589

Luminaire Tested: **VERD-G-CA2-130-727-U-T2**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509589  
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-CA2-130-727-U-T2  
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2700K, 1200mA LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16009 lumens  
Efficiency: N/A  
Efficacy: 119.6 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

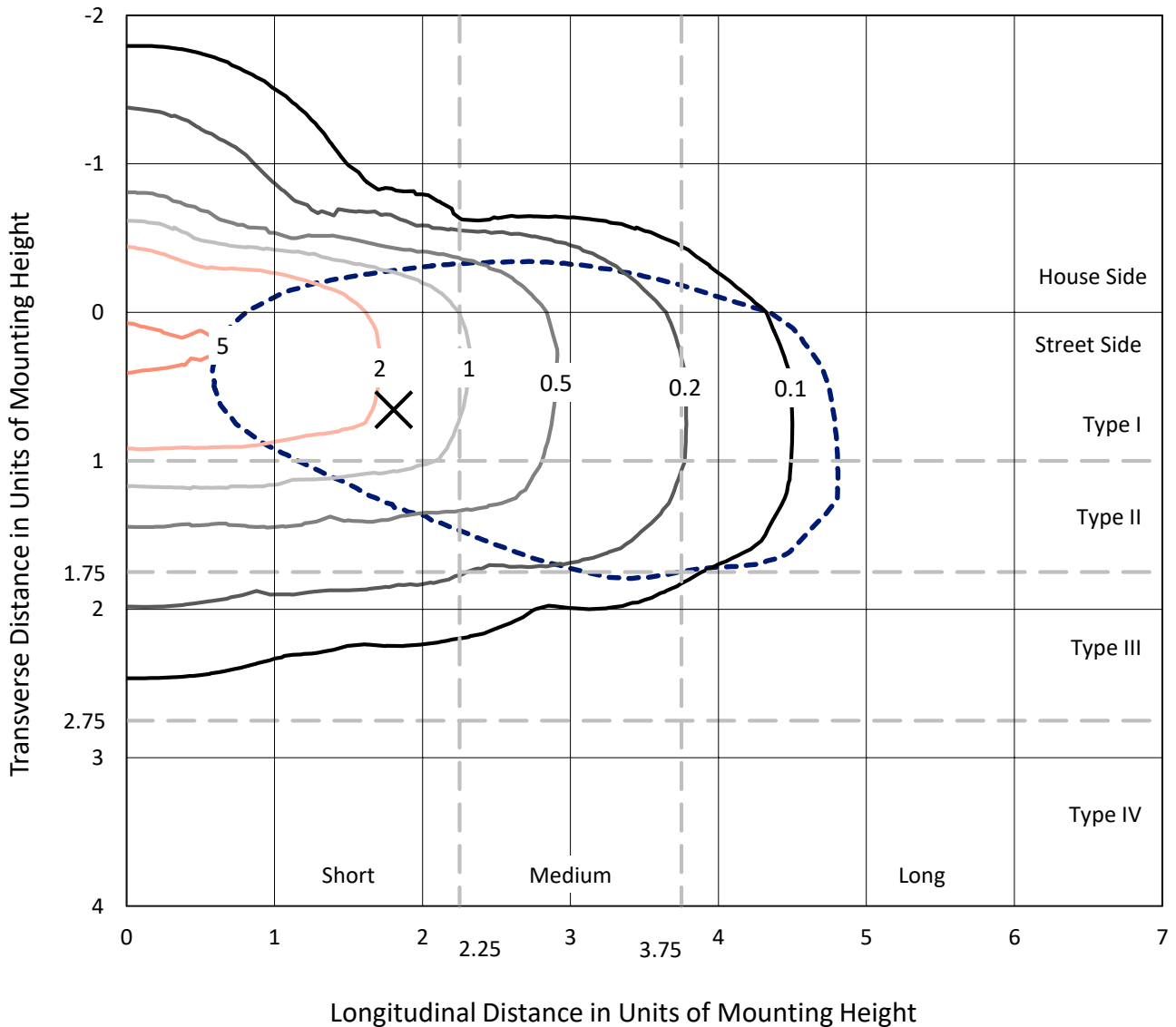
Input Watts (W): 133.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

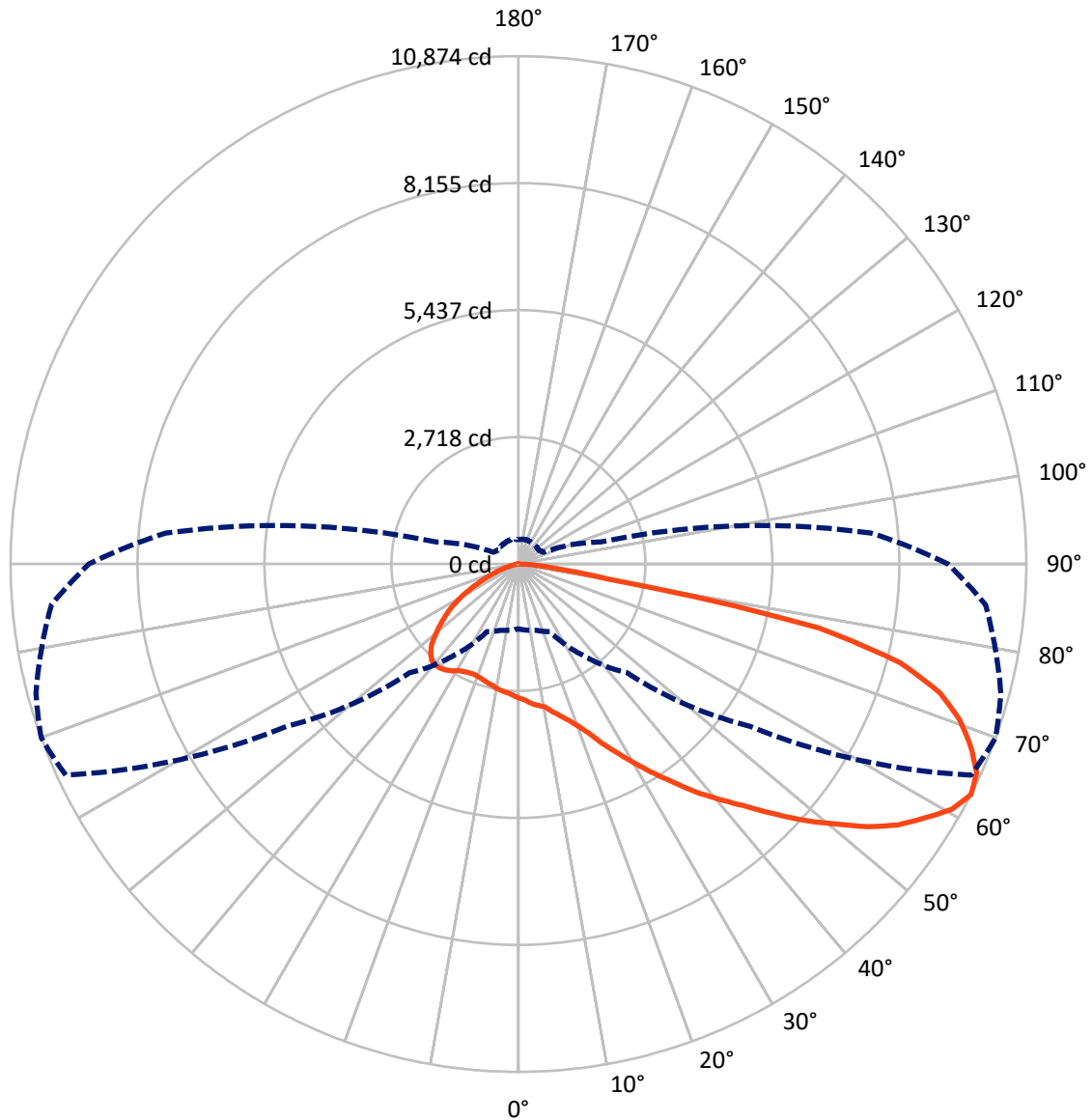
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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	4090.8	0.0	4090.8
	% Fixture	25.6	0.0	25.6
<b>Street Side</b>	Lumens	11918.1	0.0	11918.1
	% Fixture	74.4	0.0	74.4
<b>Total</b>	Lumens	16009.0	0.0	16009.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	277.4	1.7
10°-20°	844.0	5.3
20°-30°	1434.6	9.0
30°-40°	2064.4	12.9
40°-50°	2679.0	16.7
50°-60°	3140.4	19.6
60°-70°	3220.5	20.1
70°-80°	2113.3	13.2
80°-90°	235.4	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°	16009.0	100.0
0°-180°	16009.0	100.0

**Coefficient of Utilization**



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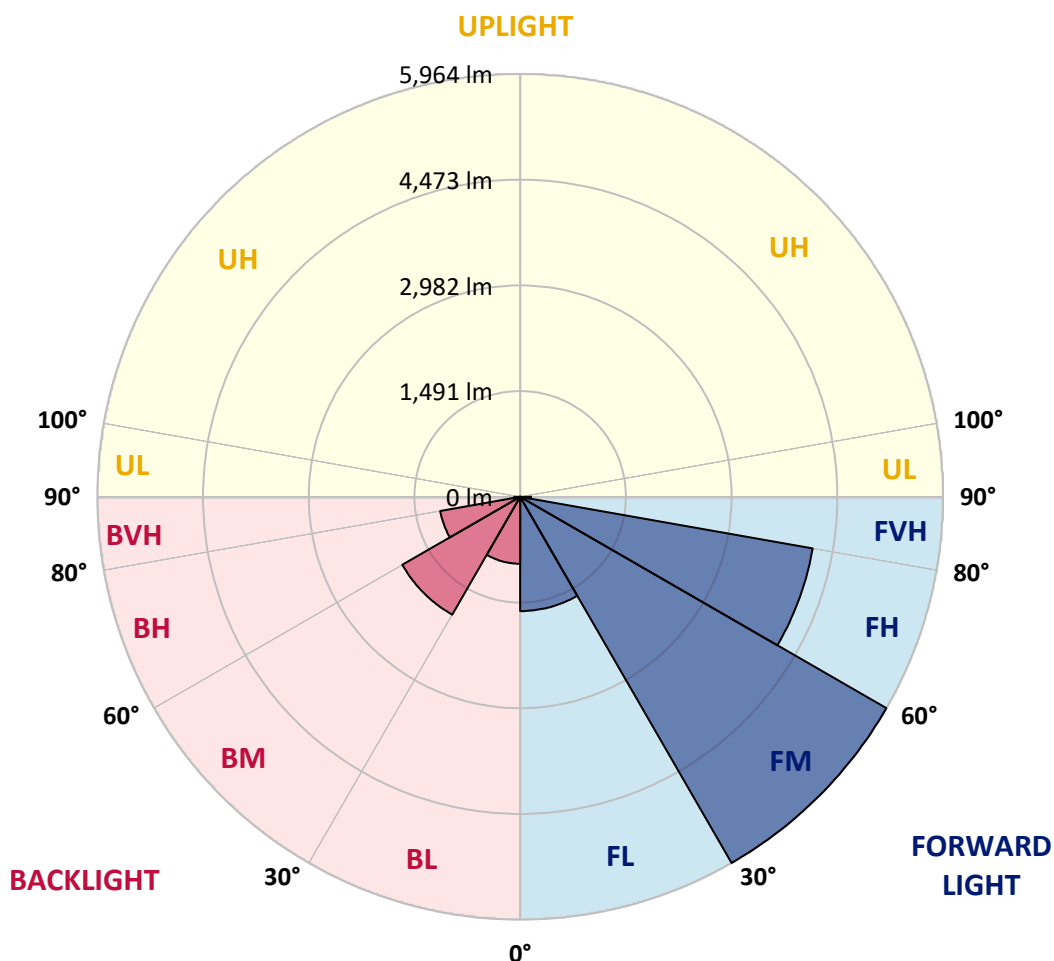
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1611.4	10.1			
FM (30°-60°)	5963.8	37.3			
FH (60°-80°)	4189.4	26.2			G2/5000
FVH (80°-90°)	153.5	1.0			G2/225
BL (0°-30°)	944.6	5.9	B2/1000		
BM (30°-60°)	1920.0	12.0	B2/2500		
BH (60°-80°)	1144.3	7.1	B3/2500		G3/2500
BVH (80°-90°)	81.9	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°	2873.2	2873.2	2873.2	2873.2	2873.2	2873.2	2873.2	2873.2	2873.2	2873.2	2873.2
2.5°	3058.0	3069.5	3050.6	3032.8	3014.9	3004.4	2986.6	2936.2	2918.3	2902.6	2871.1
5°	3216.5	3232.2	3204.9	3148.2	3134.6	3090.5	3066.4	3023.3	3005.5	2978.2	2925.7
7.5°	3402.3	3404.4	3365.5	3347.7	3302.6	3242.7	3166.1	3087.4	3061.1	3032.8	2966.6
10°	3510.4	3532.5	3494.7	3439.0	3407.5	3354.0	3273.2	3169.2	3111.5	3061.1	2987.6
12.5°	3662.6	3667.9	3607.0	3575.5	3533.5	3466.3	3387.6	3297.3	3240.6	3147.2	3013.9
15°	3773.9	3777.1	3722.5	3688.9	3649.0	3609.1	3524.1	3429.6	3373.9	3280.5	3077.9
17.5°	3853.7	3867.3	3833.7	3809.6	3767.6	3739.3	3672.1	3597.5	3525.1	3441.1	3211.2
20°	3940.8	3948.2	3886.2	3896.7	3889.4	3876.8	3845.3	3775.0	3716.2	3604.9	3318.3
22.5°	3965.0	3952.4	3969.2	4010.1	4030.0	4044.7	4035.3	4019.6	3966.0	3827.4	3520.9
25°	3929.3	3945.0	3984.9	4074.1	4185.4	4251.5	4298.8	4310.3	4294.6	4162.3	3791.8
27.5°	3919.8	3912.5	3977.6	4129.8	4316.6	4470.9	4564.4	4652.6	4612.7	4529.7	4097.2
30°	3879.9	3876.8	3991.2	4147.6	4388.0	4674.6	4841.5	4990.6	4971.7	4887.7	4455.2
32.5°	3782.3	3803.3	3891.5	4162.3	4497.2	4872.0	5075.6	5320.2	5348.6	5286.6	4817.4
35°	3656.3	3663.7	3804.3	4123.5	4582.2	5045.2	5341.2	5681.3	5747.5	5745.4	5224.7
37.5°	3496.8	3538.8	3688.9	4026.9	4619.0	5203.7	5596.3	6065.5	6197.8	6177.9	5632.0
40°	3337.2	3363.4	3540.9	3904.1	4622.1	5309.7	5812.5	6476.0	6623.0	6626.1	6096.0
42.5°	3097.9	3141.9	3327.8	3742.4	4551.8	5400.0	6027.8	6906.4	7073.3	7097.5	6526.4
45°	2898.4	2913.1	3077.9	3491.5	4399.6	5448.3	6267.1	7347.3	7617.1	7597.1	6900.1
47.5°	2640.2	2697.9	2872.2	3254.3	4161.3	5456.7	6475.0	7859.6	8193.4	8147.2	7409.2
50°	2042.8	2106.9	2581.4	3040.1	3860.0	5361.1	6641.9	8468.5	8740.3	8691.0	7842.8
52.5°	1801.4	1832.9	2025.0	2790.3	3547.2	5133.4	6775.2	9045.8	9342.9	9190.7	8349.8
55°	1698.5	1713.2	1800.3	2282.2	3271.1	4759.6	6851.8	9693.5	9860.4	9634.7	8822.2
57.5°	1587.2	1621.9	1666.0	1923.2	2963.5	4242.1	6804.6	10231.0	10258.3	10033.7	9225.3
60°	1482.3	1497.0	1588.3	1723.7	2609.7	3707.8	6537.9	10565.9	10662.5	10386.4	9710.3
62.5°	1388.8	1415.1	1468.6	1595.6	2373.5	3292.1	6063.4	10695.0	10873.5	10694.0	10037.9
65°	1300.7	1309.1	1369.9	1485.4	2112.1	3087.4	5789.5	10491.4	10781.1	10752.7	10181.7
67.5°	1196.7	1206.2	1259.7	1339.5	1785.7	2859.6	5075.6	10203.7	10447.3	10543.8	10099.8
70°	1061.3	1068.7	1131.6	1178.9	1497.0	2523.6	4262.0	9762.8	10026.3	9937.1	9549.7
72.5°	905.9	917.5	967.9	1026.7	1245.0	2127.9	3338.3	8840.1	9443.7	9384.9	8733.0
75°	731.7	749.5	790.5	860.8	1012.0	1690.1	2363.0	7153.1	8442.2	8530.4	7536.3
77.5°	346.4	364.3	401.0	459.8	613.1	1178.9	1293.3	4032.1	6574.7	7120.6	6067.6
80°	113.4	115.5	271.9	310.7	389.5	726.4	528.0	1315.4	1947.3	3293.1	3263.7
82.5°	60.9	66.1	147.0	180.6	195.3	195.3	154.3	580.5	819.9	1002.5	1161.0
85°	32.5	33.6	51.4	61.9	67.2	53.5	39.9	239.3	384.2	479.7	475.5
87.5°	13.6	14.7	15.7	13.6	11.5	7.3	5.2	4.2	4.2	4.2	4.2
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°	2873.2	2873.2	2873.2	2873.2	2873.2	2873.2	2873.2	2873.2	2873.2	2873.2	2873.2
2.5°	2855.4	2840.7	2833.3	2802.9	2769.3	2733.6	2705.2	2706.3	2728.3	2745.1	2744.1
5°	2887.9	2851.2	2806.0	2734.6	2705.2	2679.0	2647.5	2605.5	2619.2	2636.0	2648.6
7.5°	2905.7	2858.5	2797.6	2691.6	2643.3	2586.6	2557.2	2502.6	2479.5	2496.3	2496.3
10°	2899.5	2851.2	2746.2	2668.5	2574.0	2484.8	2426.0	2412.4	2392.4	2389.3	2388.2
12.5°	2941.4	2870.1	2714.7	2600.3	2514.2	2399.8	2336.8	2324.2	2328.4	2302.1	2306.3
15°	2982.4	2901.6	2687.4	2568.8	2435.5	2301.1	2250.7	2204.5	2225.5	2203.5	2208.7
17.5°	3055.9	2958.2	2672.7	2505.8	2334.7	2218.2	2127.9	2075.4	2073.3	2070.1	2061.7
20°	3139.8	3004.4	2670.6	2451.2	2252.8	2114.2	1985.1	1927.4	1885.4	1900.1	1901.1
22.5°	3292.1	3091.6	2692.6	2400.8	2138.4	1983.0	1850.7	1762.6	1712.2	1720.6	1721.6
25°	3508.3	3274.2	2750.4	2357.8	2042.8	1830.8	1700.6	1589.3	1528.5	1529.5	1546.3
27.5°	3822.2	3492.6	2842.8	2321.0	1941.0	1687.0	1510.6	1401.4	1335.3	1334.3	1345.8
30°	4132.9	3765.5	2975.0	2268.5	1811.9	1493.8	1294.4	1207.2	1166.3	1139.0	1145.3
32.5°	4440.5	4058.4	3147.2	2241.2	1660.7	1266.0	1099.1	1039.3	987.8	937.4	942.7
35°	4789.0	4333.4	3320.4	2186.7	1479.1	1077.1	960.5	878.7	812.5	786.3	781.0
37.5°	5198.4	4653.6	3440.1	2140.5	1263.9	950.0	808.3	747.4	704.4	676.0	671.8
40°	5559.6	4922.3	3572.4	2032.3	1057.1	835.6	675.0	642.5	637.2	615.2	612.0
42.5°	5924.9	5252.0	3662.6	1890.6	915.4	689.7	577.4	596.3	625.7	612.0	612.0
45°	6297.5	5596.3	3680.5	1678.6	780.0	583.7	553.2	588.9	629.9	633.0	632.0
47.5°	6705.9	5901.8	3715.1	1375.2	683.4	556.4	549.0	578.4	630.9	649.8	645.6
50°	7168.8	6232.5	3618.5	1048.7	625.7	559.5	553.2	566.9	623.6	644.6	637.2
52.5°	7619.2	6550.5	3459.0	799.9	588.9	562.7	575.3	564.8	605.7	626.7	635.1
55°	8037.0	6901.2	3121.0	711.7	563.7	558.5	593.1	574.2	588.9	595.2	606.8
57.5°	8460.1	7159.4	2761.9	667.7	550.1	553.2	582.6	574.2	583.7	576.3	566.9
60°	8856.9	7431.3	2299.0	626.7	535.4	550.1	561.6	559.5	565.8	552.2	545.9
62.5°	9193.8	7578.3	1815.0	591.0	522.8	535.4	533.3	543.8	544.8	529.1	524.9
65°	9348.2	7641.2	1385.7	558.5	503.9	516.5	506.0	508.1	509.1	488.1	487.1
67.5°	9191.7	7294.8	950.0	510.2	483.9	499.7	479.7	476.6	469.2	448.2	449.3
70°	8735.1	6716.4	634.1	440.9	440.9	468.2	456.6	449.3	431.5	411.5	417.8
72.5°	7714.7	5733.8	411.5	355.9	387.4	431.5	426.2	415.7	373.7	317.0	319.1
75°	6598.8	4550.7	274.0	259.3	296.0	373.7	354.8	329.6	312.8	330.7	352.7
77.5°	5138.6	2901.6	153.3	149.1	175.3	262.4	296.0	301.3	426.2	506.0	500.7
80°	2667.5	1473.9	89.2	73.5	103.9	176.4	233.0	317.0	529.1	398.9	386.3
82.5°	1048.7	552.2	54.6	38.8	46.2	72.4	154.3	455.6	401.0	201.6	193.2
85°	359.0	124.9	22.0	19.9	22.0	30.4	60.9	408.4	207.9	128.1	121.8
87.5°	4.2	4.2	5.2	6.3	7.3	7.3	16.8	194.2	96.6	59.8	57.7
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)