

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: P553497

Luminaire Tested: **VERD-G-CA2-140-722-U-T2**

Issue Date: 7/12/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P553497  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/12/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-G-CA2-140-722-U-T2  
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2200K, 1290mA LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16866 lumens  
Efficiency: N/A  
Efficacy: 118.4 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

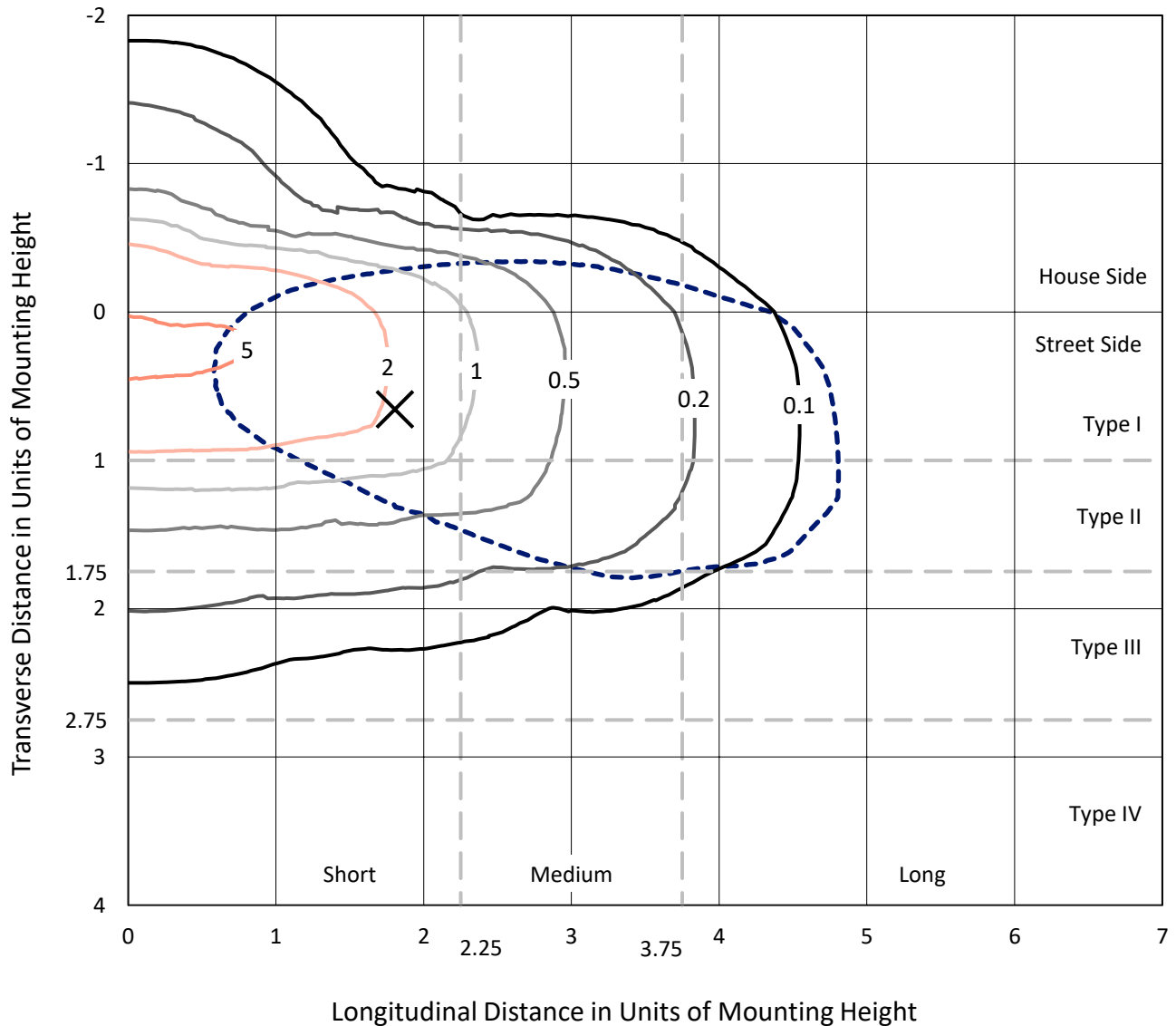
Input Watts (W): 142.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

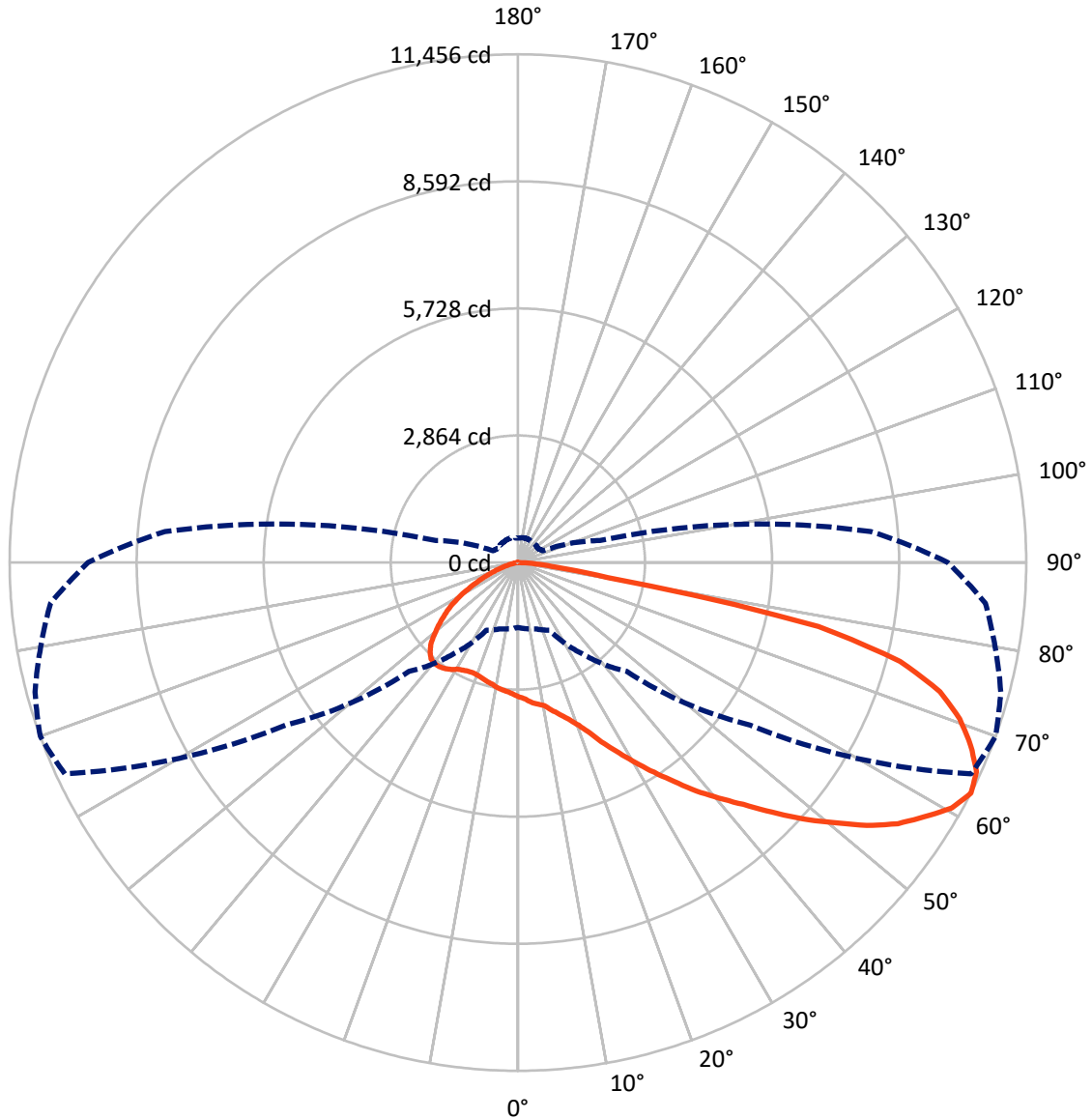
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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	4309.8	0.0	4309.8
	% Fixture	25.6	0.0	25.6
<b>Street Side</b>	Lumens	12556.1	0.0	12556.1
	% Fixture	74.4	0.0	74.4
<b>Total</b>	Lumens	16866.0	0.0	16866.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	292.3	1.7
10°-20°	889.2	5.3
20°-30°	1511.4	9.0
30°-40°	2174.9	12.9
40°-50°	2822.4	16.7
50°-60°	3308.5	19.6
60°-70°	3392.9	20.1
70°-80°	2226.4	13.2
80°-90°	248.0	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°	16866.0	100.0
0°-180°	16866.0	100.0

**Coefficient of Utilization**



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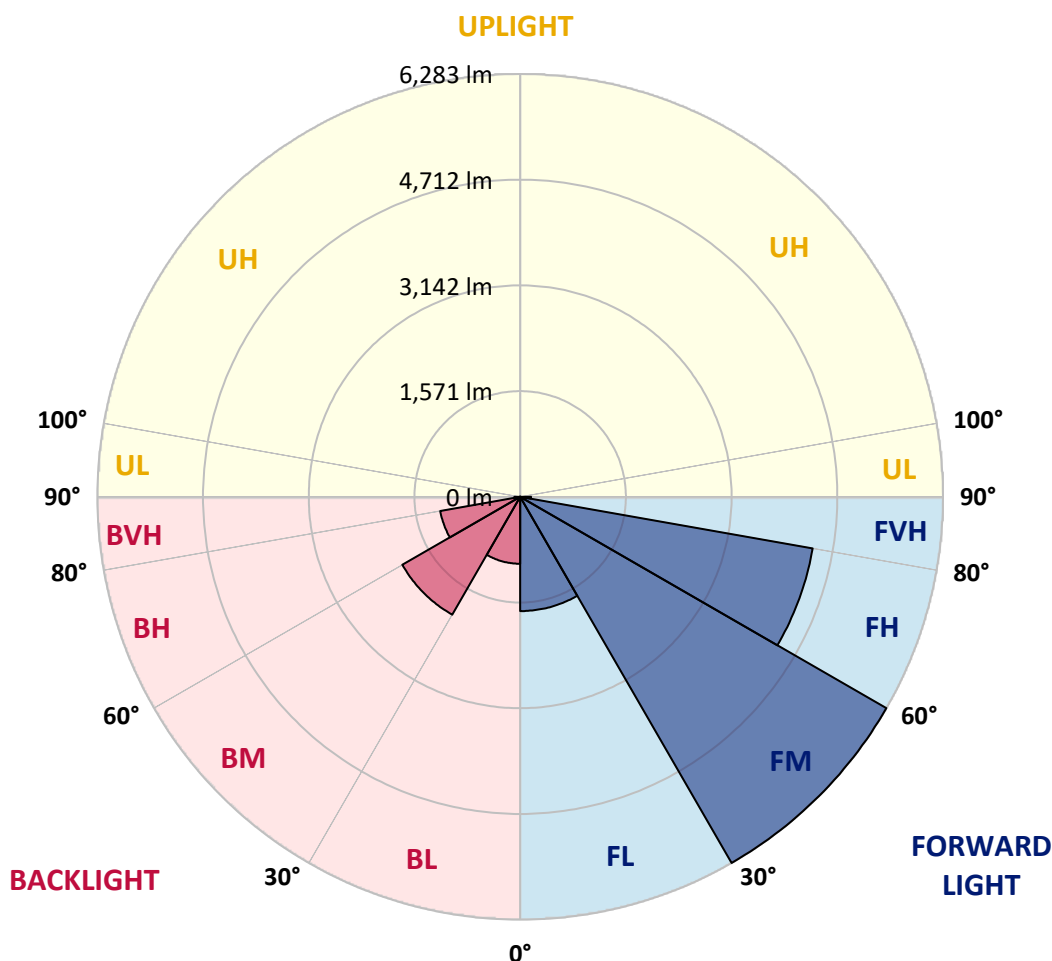
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1697.7	10.1			
FM (30°-60°)	6283.1	37.3			
FH (60°-80°)	4413.7	26.2			G2/5000
FVH (80°-90°)	161.7	1.0			G2/225
BL (0°-30°)	995.2	5.9	B2/1000		
BM (30°-60°)	2022.7	12.0	B2/2500		
BH (60°-80°)	1205.6	7.1	B3/2500		G3/2500
BVH (80°-90°)	86.3	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°	3027.0	3027.0	3027.0	3027.0	3027.0	3027.0	3027.0	3027.0	3027.0	3027.0	3027.0
2.5°	3221.7	3233.8	3213.9	3195.1	3176.3	3165.3	3146.5	3093.4	3074.6	3058.0	3024.8
5°	3388.7	3405.3	3376.5	3316.8	3302.4	3256.0	3230.5	3185.2	3166.4	3137.6	3082.3
7.5°	3584.4	3586.6	3545.7	3526.9	3479.4	3416.3	3335.6	3252.6	3225.0	3195.1	3125.4
10°	3698.3	3721.6	3681.7	3623.1	3590.0	3533.5	3448.4	3338.9	3278.1	3225.0	3147.6
12.5°	3858.7	3864.2	3800.1	3766.9	3722.7	3651.9	3568.9	3473.8	3414.1	3315.7	3175.2
15°	3975.9	3979.2	3921.7	3886.3	3844.3	3802.3	3712.7	3613.2	3554.6	3456.1	3242.7
17.5°	4060.0	4074.4	4039.0	4013.5	3969.3	3939.4	3868.7	3790.1	3713.8	3625.3	3383.1
20°	4151.8	4159.5	4094.3	4105.3	4097.6	4084.3	4051.1	3977.0	3915.1	3797.9	3495.9
22.5°	4177.2	4163.9	4181.6	4224.8	4245.8	4261.3	4251.3	4234.7	4178.3	4032.3	3709.4
25°	4139.6	4156.2	4198.2	4292.2	4409.5	4479.1	4528.9	4541.1	4524.5	4385.1	3994.7
27.5°	4129.7	4121.9	4190.5	4350.9	4547.7	4710.3	4808.7	4901.6	4859.6	4772.2	4316.6
30°	4087.6	4084.3	4204.9	4369.7	4622.9	4924.8	5100.7	5257.7	5237.8	5149.4	4693.7
32.5°	3984.8	4006.9	4099.8	4385.1	4737.9	5132.8	5347.3	5605.0	5634.9	5569.6	5075.3
35°	3852.1	3859.8	4008.0	4344.2	4827.5	5315.3	5627.1	5985.5	6055.1	6052.9	5504.4
37.5°	3684.0	3728.2	3886.3	4242.5	4866.2	5482.3	5895.9	6390.2	6529.6	6508.6	5933.5
40°	3515.9	3543.5	3730.4	4113.1	4869.5	5594.0	6123.7	6822.7	6977.5	6980.8	6422.3
42.5°	3263.7	3310.1	3505.9	3942.8	4795.4	5689.1	6350.4	7276.1	7452.0	7477.4	6875.8
45°	3053.6	3069.0	3242.7	3678.4	4635.1	5739.9	6602.6	7740.6	8024.9	8003.8	7269.5
47.5°	2781.5	2842.3	3025.9	3428.5	4384.0	5748.8	6821.6	8280.3	8632.0	8583.4	7805.9
50°	2152.2	2219.7	2719.6	3202.9	4066.6	5648.1	6997.4	8921.8	9208.2	9156.3	8262.6
52.5°	1897.8	1931.0	2133.4	2939.6	3737.0	5408.2	7137.9	9530.1	9843.1	9682.7	8796.8
55°	1789.4	1804.9	1896.7	2404.4	3446.2	5014.4	7218.6	10212.4	10388.3	10150.5	9294.5
57.5°	1672.2	1708.7	1755.2	2026.1	3122.1	4469.2	7168.8	10778.7	10807.5	10570.8	9719.2
60°	1561.6	1577.1	1673.3	1816.0	2749.4	3906.3	6887.9	11131.5	11233.3	10942.4	10230.1
62.5°	1463.2	1490.8	1547.2	1681.1	2500.6	3468.3	6388.0	11267.5	11455.5	11266.4	10575.2
65°	1370.3	1379.1	1443.3	1564.9	2225.2	3252.6	6099.4	11053.0	11358.2	11328.4	10726.7
67.5°	1260.8	1270.7	1327.2	1411.2	1881.2	3012.6	5347.3	10749.9	11006.5	11108.3	10640.5
70°	1118.1	1125.9	1192.2	1242.0	1577.1	2658.7	4490.2	10285.4	10563.0	10469.0	10060.9
72.5°	954.4	966.6	1019.7	1081.6	1311.7	2241.8	3517.0	9313.3	9949.2	9887.3	9200.5
75°	770.9	789.7	832.8	906.9	1066.1	1780.6	2489.5	7536.0	8894.1	8987.0	7939.7
77.5°	365.0	383.8	422.5	484.4	645.9	1242.0	1362.5	4248.0	6926.6	7501.7	6392.5
80°	119.4	121.7	286.4	327.4	410.3	765.3	556.3	1385.8	2051.6	3469.4	3438.4
82.5°	64.1	69.7	154.8	190.2	205.7	205.7	162.6	611.6	863.8	1056.2	1223.2
85°	34.3	35.4	54.2	65.3	70.8	56.4	42.0	252.2	404.8	505.4	501.0
87.5°	14.4	15.5	16.6	14.4	12.2	7.7	5.5	4.4	4.4	4.4	4.4
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°	3027.0	3027.0	3027.0	3027.0	3027.0	3027.0	3027.0	3027.0	3027.0	3027.0	3027.0
2.5°	3008.2	2992.7	2985.0	2952.9	2917.5	2879.9	2850.1	2851.2	2874.4	2892.1	2891.0
5°	3042.5	3003.8	2956.2	2881.0	2850.1	2822.4	2789.2	2745.0	2759.4	2777.1	2790.3
7.5°	3061.3	3011.5	2947.4	2835.7	2784.8	2725.1	2694.1	2636.6	2612.3	2630.0	2630.0
10°	3054.7	3003.8	2893.2	2811.4	2711.8	2617.8	2555.9	2541.5	2520.5	2517.2	2516.1
12.5°	3098.9	3023.7	2860.0	2739.5	2648.8	2528.2	2461.9	2448.6	2453.0	2425.4	2429.8
15°	3142.0	3056.9	2831.3	2706.3	2565.8	2424.3	2371.2	2322.5	2344.6	2321.4	2326.9
17.5°	3219.5	3116.6	2815.8	2639.9	2459.7	2336.9	2241.8	2186.5	2184.3	2181.0	2172.1
20°	3307.9	3165.3	2813.6	2582.4	2373.4	2227.4	2091.4	2030.5	1986.3	2001.8	2002.9
22.5°	3468.3	3257.1	2836.8	2529.3	2252.8	2089.2	1949.8	1856.9	1803.8	1812.7	1813.8
25°	3696.1	3449.5	2897.6	2484.0	2152.2	1928.8	1791.7	1674.4	1610.3	1611.4	1629.1
27.5°	4026.8	3679.5	2994.9	2445.3	2044.9	1777.3	1591.5	1476.5	1406.8	1405.7	1417.8
30°	4354.2	3967.1	3134.3	2390.0	1908.9	1573.8	1363.7	1271.9	1228.7	1200.0	1206.6
32.5°	4678.2	4275.6	3315.7	2361.2	1749.6	1333.8	1157.9	1094.9	1040.7	987.6	993.2
35°	5045.4	4565.4	3498.2	2303.7	1558.3	1134.7	1012.0	925.7	856.0	828.4	822.8
37.5°	5476.7	4902.7	3624.2	2255.1	1331.6	1000.9	851.6	787.4	742.1	712.2	707.8
40°	5857.2	5185.9	3763.6	2141.1	1113.7	880.3	711.1	676.8	671.3	648.1	644.8
42.5°	6242.0	5533.1	3858.7	1991.8	964.4	726.6	608.3	628.2	659.2	644.8	644.8
45°	6634.7	5895.9	3877.5	1768.4	821.7	614.9	582.8	620.4	663.6	666.9	665.8
47.5°	7064.9	6217.7	3914.0	1448.8	720.0	586.2	578.4	609.4	664.7	684.6	680.2
50°	7552.6	6566.1	3812.2	1104.9	659.2	589.5	582.8	597.2	656.9	679.1	671.3
52.5°	8027.1	6901.2	3644.1	842.7	620.4	592.8	606.1	595.0	638.1	660.3	669.1
55°	8467.2	7270.6	3288.0	749.8	593.9	588.4	624.9	605.0	620.4	627.1	639.2
57.5°	8912.9	7542.7	2909.8	703.4	579.5	582.8	613.8	605.0	614.9	607.2	597.2
60°	9331.0	7829.1	2422.1	660.3	564.0	579.5	591.7	589.5	596.1	581.7	575.1
62.5°	9686.0	7983.9	1912.2	622.7	550.8	564.0	561.8	572.9	574.0	557.4	553.0
65°	9848.6	8050.3	1459.9	588.4	530.9	544.1	533.1	535.3	536.4	514.3	513.2
67.5°	9683.8	7685.3	1000.9	537.5	509.8	526.4	505.4	502.1	494.4	472.2	473.4
70°	9202.7	7075.9	668.0	464.5	464.5	493.3	481.1	473.4	454.6	433.5	440.2
72.5°	8127.7	6040.8	433.5	374.9	408.1	454.6	449.0	438.0	393.7	334.0	336.2
75°	6952.1	4794.3	288.7	273.2	311.9	393.7	373.8	347.3	329.6	348.4	371.6
77.5°	5413.7	3056.9	161.5	157.0	184.7	276.5	311.9	317.4	449.0	533.1	527.5
80°	2810.2	1552.8	94.0	77.4	109.5	185.8	245.5	334.0	557.4	420.3	407.0
82.5°	1104.9	581.7	57.5	40.9	48.7	76.3	162.6	480.0	422.5	212.3	203.5
85°	378.2	131.6	23.2	21.0	23.2	32.1	64.1	430.2	219.0	134.9	128.3
87.5°	4.4	4.4	5.5	6.6	7.7	7.7	17.7	204.6	101.7	63.0	60.8
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)