

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: P509541

Luminaire Tested: **VERD-G-CA2-120-727-U-T2**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509541  
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-CA2-120-727-U-T2  
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2700K, 1120mA LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15139 lumens  
Efficiency: N/A  
Efficacy: 121.4 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

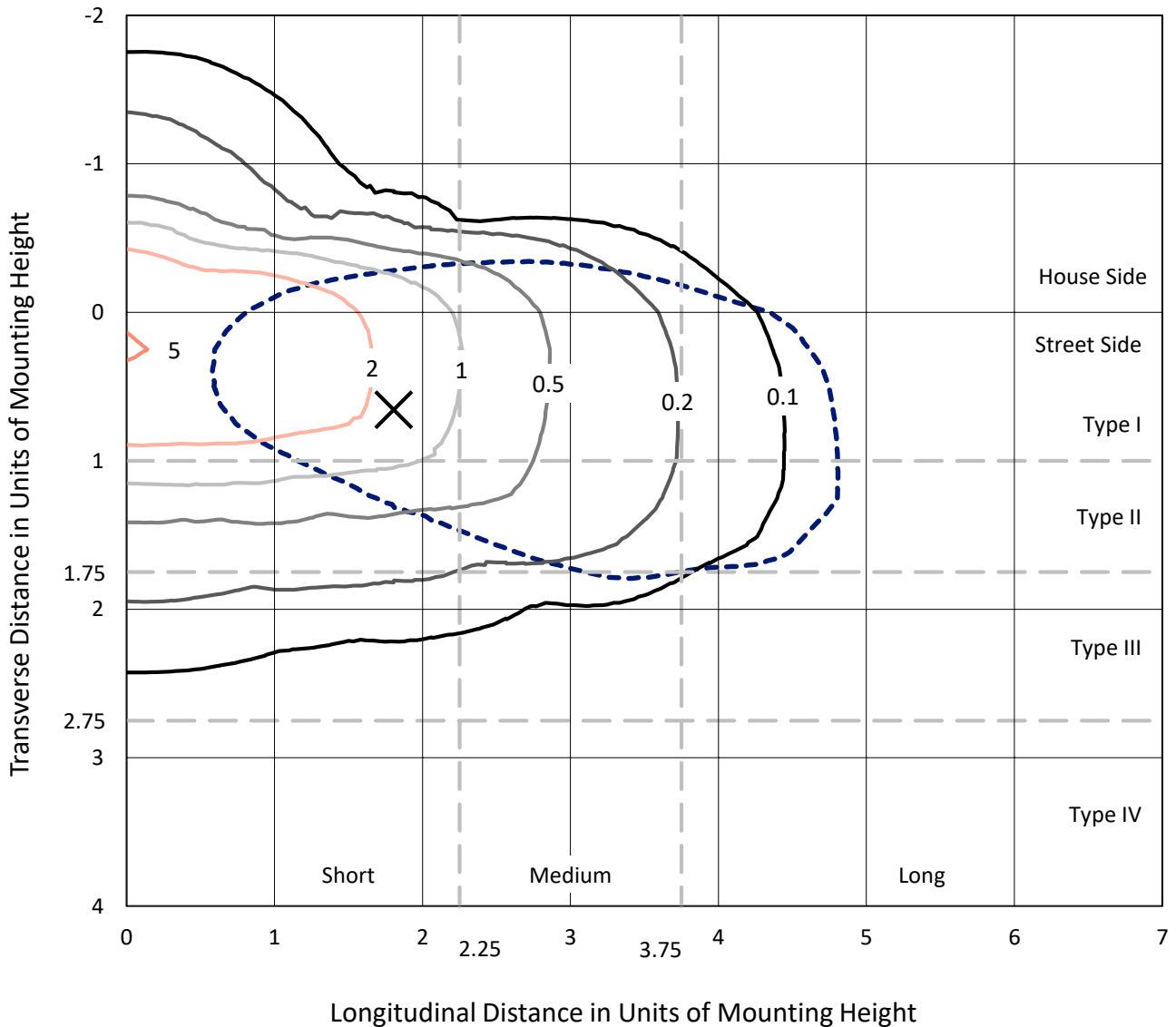
Input Watts (W): 124.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

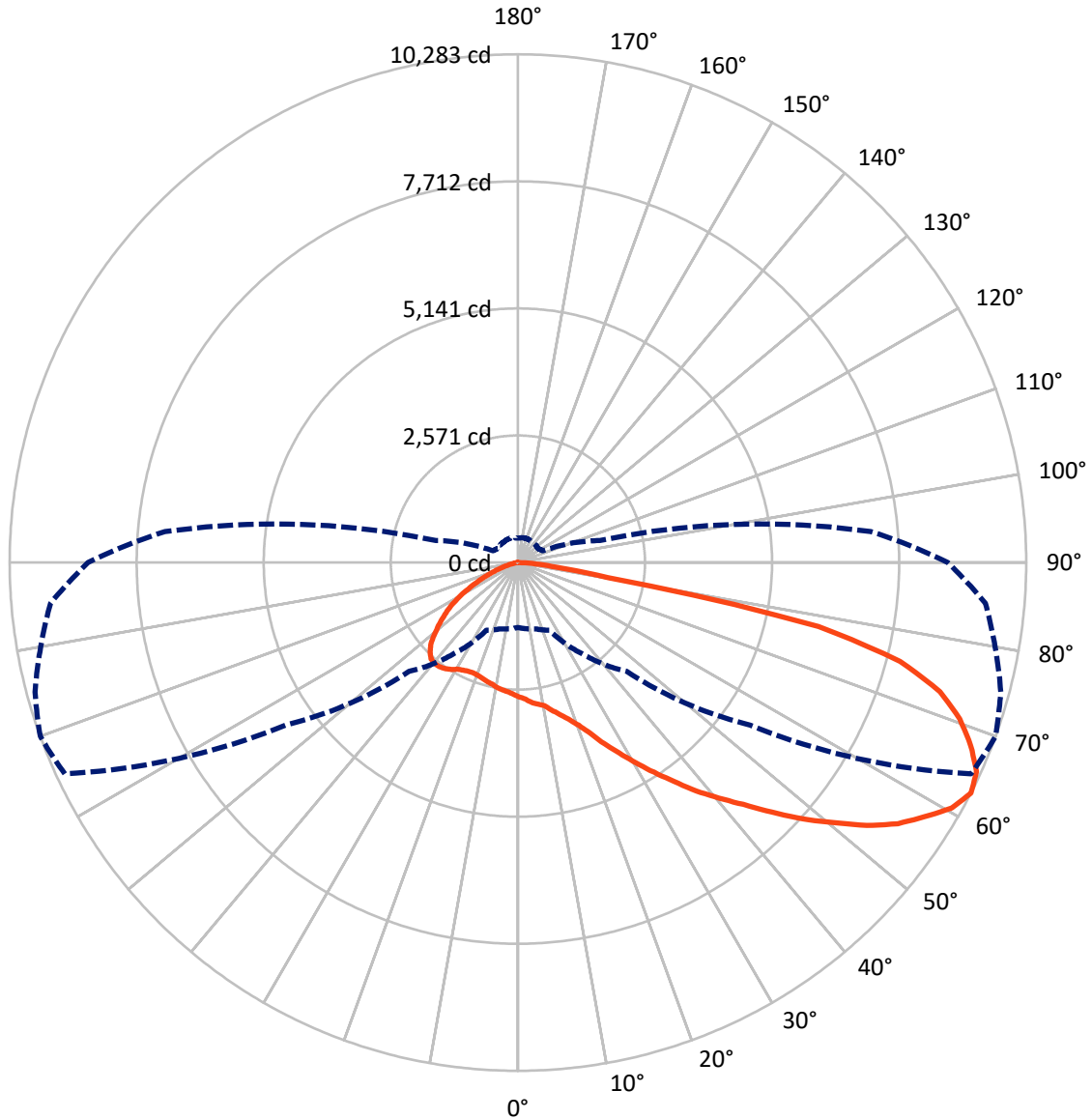
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc  
 Type II - Short - N/A

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CATALOG NUMBER: VERD-G-CA2-120-727-U-T2

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P509541

CATALOG NUMBER: VERD-G-CA2-120-727-U-T2

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3868.5	0.0	3868.5
	% Fixture	25.6	0.0	25.6
<b>Street Side</b>	Lumens	11270.5	0.0	11270.5
	% Fixture	74.4	0.0	74.4
<b>Total</b>	Lumens	15139.0	0.0	15139.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	262.4	1.7
10°-20°	798.1	5.3
20°-30°	1356.6	9.0
30°-40°	1952.2	12.9
40°-50°	2533.4	16.7
50°-60°	2969.8	19.6
60°-70°	3045.5	20.1
70°-80°	1998.4	13.2
80°-90°	222.6	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°	15139.0	100.0
0°-180°	15139.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P509541

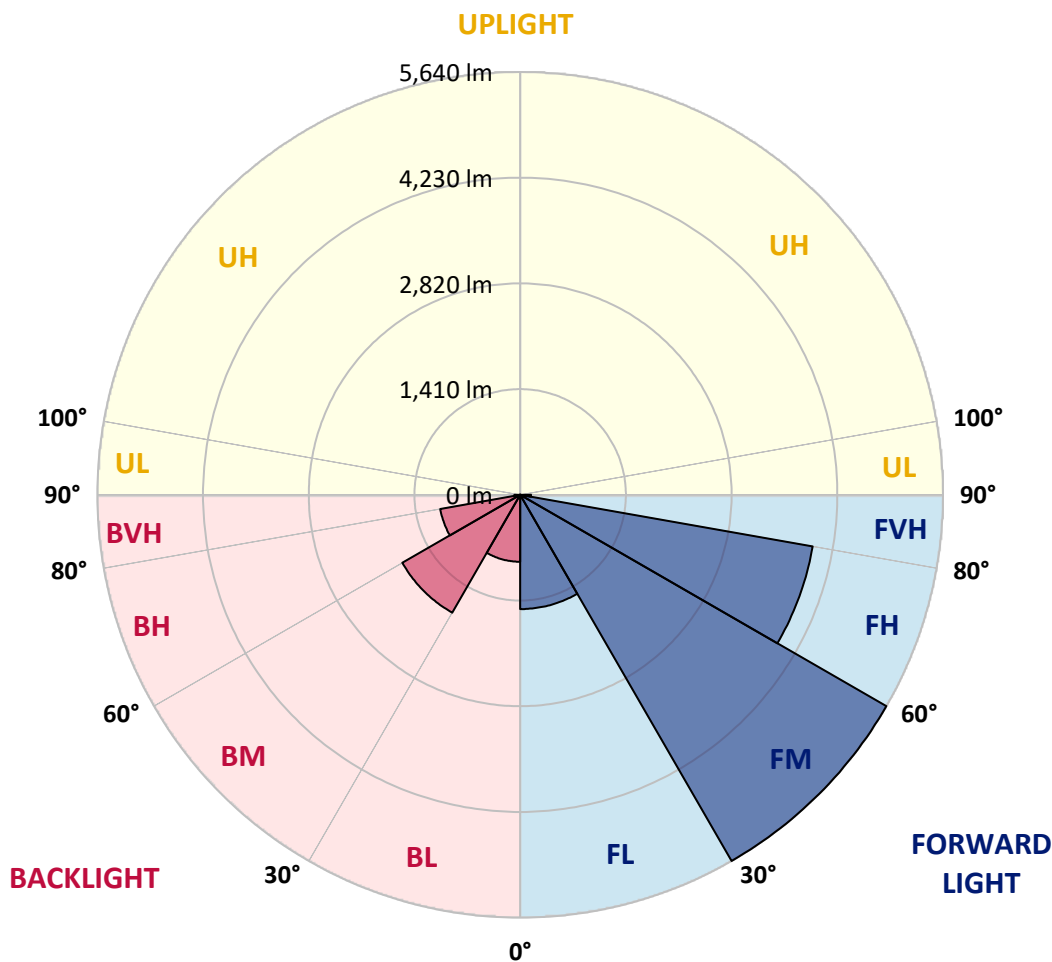
CATALOG NUMBER: VERD-G-CA2-120-727-U-T2

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1523.8	10.1			
FM	(30°-60°)	5639.7	37.3			
FH	(60°-80°)	3961.7	26.2			G2/5000
FVH	(80°-90°)	145.2	1.0			G2/225
BL	(0°-30°)	893.3	5.9	B2/1000		
BM	(30°-60°)	1815.6	12.0	B2/2500		
BH	(60°-80°)	1082.2	7.1	B3/2500		G3/2500
BVH	(80°-90°)	77.5	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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 CATALOG NUMBER: VERD-G-CA2-120-727-U-T2

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2717.1	2717.1	2717.1	2717.1	2717.1	2717.1	2717.1	2717.1	2717.1	2717.1	2717.1
2.5°	2891.8	2902.7	2884.8	2868.0	2851.1	2841.2	2824.3	2776.6	2759.8	2744.9	2715.1
5°	3041.7	3056.6	3030.8	2977.2	2964.3	2922.6	2899.7	2859.0	2842.1	2816.3	2766.7
7.5°	3217.4	3219.4	3182.6	3165.8	3123.1	3066.5	2994.0	2919.6	2894.8	2868.0	2805.4
10°	3319.6	3340.5	3304.8	3252.1	3222.4	3171.7	3095.3	2997.0	2942.4	2894.8	2825.3
12.5°	3463.6	3468.6	3411.0	3381.2	3341.5	3277.9	3203.5	3118.1	3064.5	2976.2	2850.1
15°	3568.8	3571.8	3520.2	3488.4	3450.7	3413.0	3332.5	3243.2	3190.6	3102.2	2910.6
17.5°	3644.3	3657.2	3625.4	3602.6	3562.9	3536.1	3472.5	3402.0	3333.5	3254.1	3036.7
20°	3726.7	3733.6	3675.0	3685.0	3678.0	3666.1	3636.3	3569.8	3514.2	3409.0	3138.0
22.5°	3749.5	3737.6	3753.5	3792.2	3811.0	3824.9	3816.0	3801.1	3750.5	3619.4	3329.6
25°	3715.7	3730.6	3768.4	3852.7	3958.0	4020.5	4065.2	4076.1	4061.2	3936.1	3585.7
27.5°	3706.8	3699.9	3761.4	3905.3	4082.0	4228.0	4316.3	4399.7	4362.0	4283.6	3874.6
30°	3669.1	3666.1	3774.3	3922.2	4149.6	4420.6	4578.4	4719.4	4701.5	4622.1	4213.1
32.5°	3576.8	3596.6	3680.0	3936.1	4252.8	4607.2	4799.8	5031.1	5057.9	4999.3	4555.6
35°	3457.6	3464.6	3597.6	3899.4	4333.2	4771.0	5050.9	5372.6	5435.1	5433.1	4940.7
37.5°	3306.7	3346.4	3488.4	3808.1	4368.0	4920.9	5292.2	5735.9	5861.0	5842.1	5325.9
40°	3155.8	3180.7	3348.4	3691.9	4370.9	5021.2	5496.7	6124.1	6263.0	6266.0	5764.7
42.5°	2929.5	2971.2	3146.9	3539.0	4304.4	5106.5	5700.2	6531.1	6688.9	6711.8	6171.7
45°	2740.9	2754.8	2910.6	3301.8	4160.5	5152.2	5926.5	6948.0	7203.1	7184.3	6525.1
47.5°	2496.7	2551.3	2716.1	3077.4	3935.1	5160.1	6123.1	7432.5	7748.1	7704.5	7006.6
50°	1931.8	1992.4	2441.1	2874.9	3650.2	5069.8	6280.9	8008.2	8265.4	8218.7	7416.6
52.5°	1703.5	1733.3	1914.9	2638.6	3354.4	4854.4	6407.0	8554.2	8835.2	8691.2	7896.1
55°	1606.2	1620.1	1702.5	2158.2	3093.3	4501.0	6479.5	9166.7	9324.6	9111.1	8342.8
57.5°	1501.0	1533.7	1575.4	1818.7	2802.4	4011.6	6434.8	9675.0	9700.8	9488.4	8724.0
60°	1401.7	1415.6	1502.0	1630.0	2467.9	3506.3	6182.6	9991.7	10083.0	9821.9	9182.6
62.5°	1313.4	1338.2	1388.8	1508.9	2244.5	3113.2	5733.9	10113.8	10282.6	10112.8	9492.4
65°	1230.0	1237.9	1295.5	1404.7	1997.3	2919.6	5474.8	9921.2	10195.2	10168.4	9628.4
67.5°	1131.7	1140.6	1191.3	1266.7	1688.6	2704.2	4799.8	9649.2	9879.5	9970.8	9550.9
70°	1003.6	1010.6	1070.1	1114.8	1415.6	2386.5	4030.4	9232.3	9481.4	9397.1	9030.7
72.5°	856.7	867.6	915.3	970.9	1177.4	2012.2	3156.8	8359.7	8930.5	8874.9	8258.4
75°	691.9	708.8	747.5	814.0	957.0	1598.3	2234.6	6764.4	7983.4	8066.8	7126.7
77.5°	327.6	344.5	379.2	434.8	579.7	1114.8	1223.0	3813.0	6217.4	6733.6	5737.9
80°	107.2	109.2	257.1	293.8	368.3	687.0	499.3	1243.9	1841.5	3114.2	3086.4
82.5°	57.6	62.5	139.0	170.7	184.6	184.6	145.9	549.0	775.3	948.0	1097.9
85°	30.8	31.8	48.6	58.6	63.5	50.6	37.7	226.3	363.3	453.7	449.7
87.5°	12.9	13.9	14.9	12.9	10.9	6.9	5.0	4.0	4.0	4.0	4.0
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: P509541  
 CATALOG NUMBER: VERD-G-CA2-120-727-U-T2

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2717.1	2717.1	2717.1	2717.1	2717.1	2717.1	2717.1	2717.1	2717.1	2717.1	2717.1
2.5°	2700.2	2686.3	2679.3	2650.6	2618.8	2585.0	2558.2	2559.2	2580.1	2596.0	2595.0
5°	2731.0	2696.2	2653.5	2586.0	2558.2	2533.4	2503.6	2463.9	2476.8	2492.7	2504.6
7.5°	2747.8	2703.2	2645.6	2545.3	2499.7	2446.1	2418.3	2366.6	2344.8	2360.7	2360.7
10°	2741.9	2696.2	2596.9	2523.5	2434.1	2349.8	2294.2	2281.3	2262.4	2259.4	2258.4
12.5°	2781.6	2714.1	2567.2	2459.0	2377.6	2269.3	2209.8	2197.9	2201.8	2177.0	2181.0
15°	2820.3	2743.9	2541.4	2429.2	2303.1	2176.0	2128.4	2084.7	2104.6	2083.7	2088.7
17.5°	2889.8	2797.5	2527.5	2369.6	2207.8	2097.6	2012.2	1962.6	1960.6	1957.6	1949.7
20°	2969.2	2841.2	2525.5	2318.0	2130.4	1999.3	1877.2	1822.6	1782.9	1796.8	1797.8
22.5°	3113.2	2923.5	2546.3	2270.3	2022.2	1875.2	1750.2	1666.8	1619.1	1627.1	1628.1
25°	3317.7	3096.3	2600.9	2229.6	1931.8	1731.3	1608.2	1503.0	1445.4	1446.4	1462.3
27.5°	3614.5	3302.8	2688.3	2194.9	1835.5	1595.3	1428.5	1325.3	1262.7	1261.7	1272.7
30°	3908.3	3560.9	2813.4	2145.3	1713.4	1412.6	1224.0	1141.6	1102.9	1077.1	1083.1
32.5°	4199.2	3837.8	2976.2	2119.4	1570.5	1197.2	1039.4	982.8	934.1	886.5	891.5
35°	4528.8	4097.9	3140.0	2067.8	1398.7	1018.5	908.3	830.9	768.4	743.5	738.6
37.5°	4915.9	4400.7	3253.1	2024.1	1195.2	898.4	764.4	706.8	666.1	639.3	635.3
40°	5257.4	4654.8	3378.2	1921.9	999.7	790.2	638.3	607.5	602.6	581.7	578.8
42.5°	5602.9	4966.6	3463.6	1787.9	865.6	652.2	546.0	563.9	591.7	578.8	578.8
45°	5955.3	5292.2	3480.5	1587.4	737.6	552.0	523.2	556.9	595.6	598.6	597.6
47.5°	6341.5	5581.1	3513.2	1300.5	646.3	526.1	519.2	547.0	596.6	614.5	610.5
50°	6779.3	5893.8	3421.9	991.7	591.7	529.1	523.2	536.1	589.7	609.5	602.6
52.5°	7205.1	6194.5	3271.0	756.4	556.9	532.1	544.0	534.1	572.8	592.7	600.6
55°	7600.2	6526.1	2951.3	673.1	533.1	528.1	560.9	543.0	556.9	562.9	573.8
57.5°	8000.3	6770.3	2611.8	631.4	520.2	523.2	551.0	543.0	552.0	545.0	536.1
60°	8375.5	7027.4	2174.0	592.7	506.3	520.2	531.1	529.1	535.1	522.2	516.2
62.5°	8694.2	7166.4	1716.4	558.9	494.4	506.3	504.3	514.2	515.2	500.3	496.4
65°	8840.1	7226.0	1310.4	528.1	476.5	488.4	478.5	480.5	481.5	461.6	460.6
67.5°	8692.2	6898.4	898.4	482.5	457.6	472.5	453.7	450.7	443.7	423.9	424.9
70°	8260.4	6351.4	599.6	416.9	416.9	442.8	431.8	424.9	408.0	389.1	395.1
72.5°	7295.5	5422.2	389.1	336.5	366.3	408.0	403.0	393.1	353.4	299.8	301.8
75°	6240.2	4303.4	259.1	245.2	279.9	353.4	335.5	311.7	295.8	312.7	333.6
77.5°	4859.3	2743.9	144.9	141.0	165.8	248.2	279.9	284.9	403.0	478.5	473.5
80°	2522.5	1393.8	84.4	69.5	98.3	166.8	220.4	299.8	500.3	377.2	365.3
82.5°	991.7	522.2	51.6	36.7	43.7	68.5	145.9	430.8	379.2	190.6	182.7
85°	339.5	118.1	20.8	18.9	20.8	28.8	57.6	386.2	196.6	121.1	115.2
87.5°	4.0	4.0	5.0	6.0	6.9	6.9	15.9	183.7	91.3	56.6	54.6
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)