

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: P509485

Luminaire Tested: **VERD-G-CA2-110-722-U-T2**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509485
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-CA2-110-722-U-T2
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1020mA LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13511 lumens
Efficiency: N/A
Efficacy: 119.4 lumens/watt
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

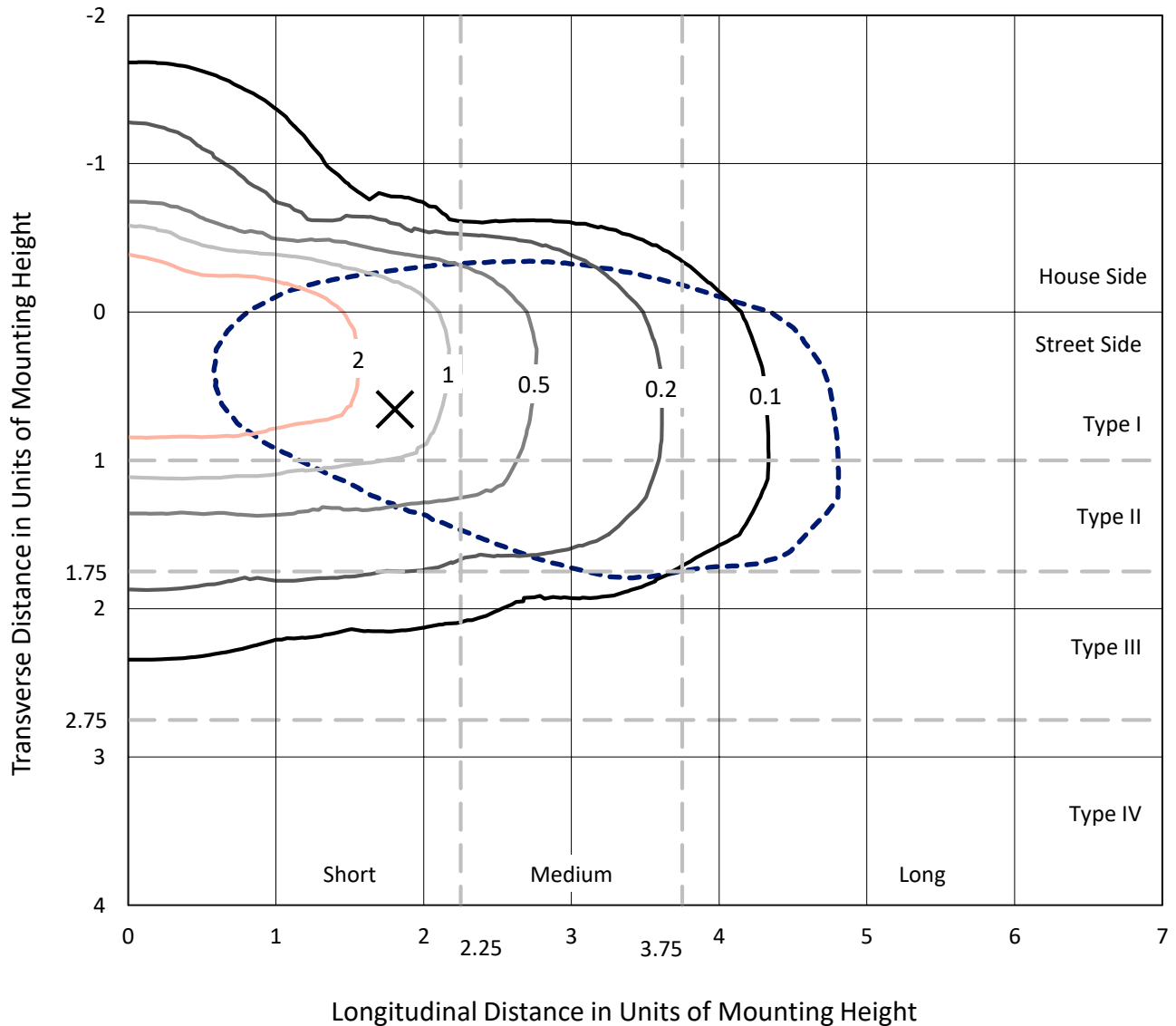
Input Watts (W): 113.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P509485
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Iso-Footcandle Lines of Horizontal Illumination

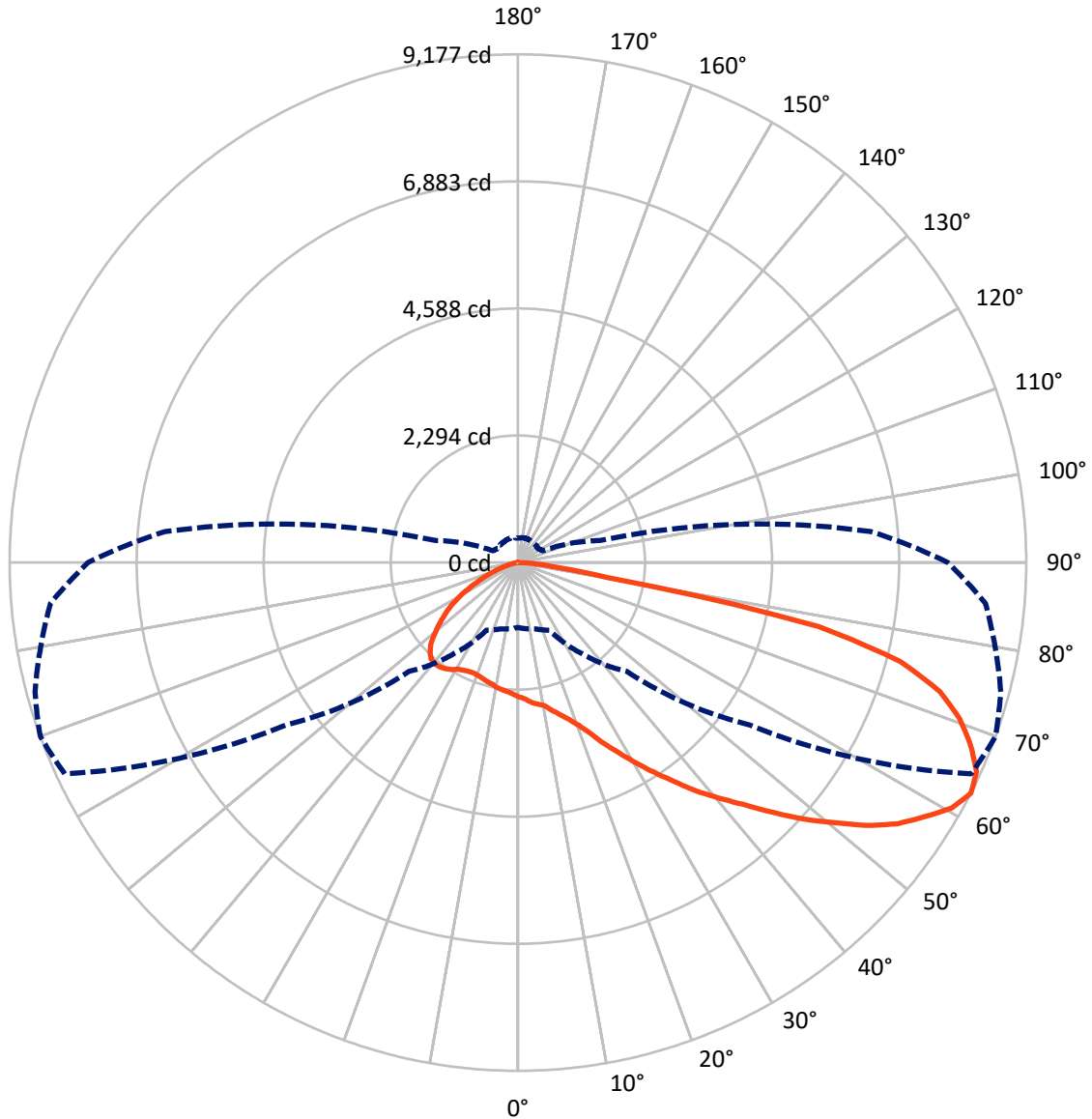
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type II - Short - N/A

REPORT NUMBER: P509485
CATALOG NUMBER: VERD-G-CA2-110-722-U-T2

Luminous Intensity Polar Plot



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

REPORT NUMBER: P509485

CATALOG NUMBER: VERD-G-CA2-110-722-U-T2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3452.5	0.0	3452.5
	% Fixture	25.6	0.0	25.6
Street Side	Lumens	10058.5	0.0	10058.5
	% Fixture	74.4	0.0	74.4
Total	Lumens	13511.0	0.0	13511.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.2	1.7
10°-20°	712.3	5.3
20°-30°	1210.8	9.0
30°-40°	1742.3	12.9
40°-50°	2260.9	16.7
50°-60°	2650.4	19.6
60°-70°	2718.0	20.1
70°-80°	1783.5	13.2
80°-90°	198.7	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°	13511.0	100.0
0°-180°	13511.0	100.0

Coefficient of Utilization



REPORT NUMBER: P509485

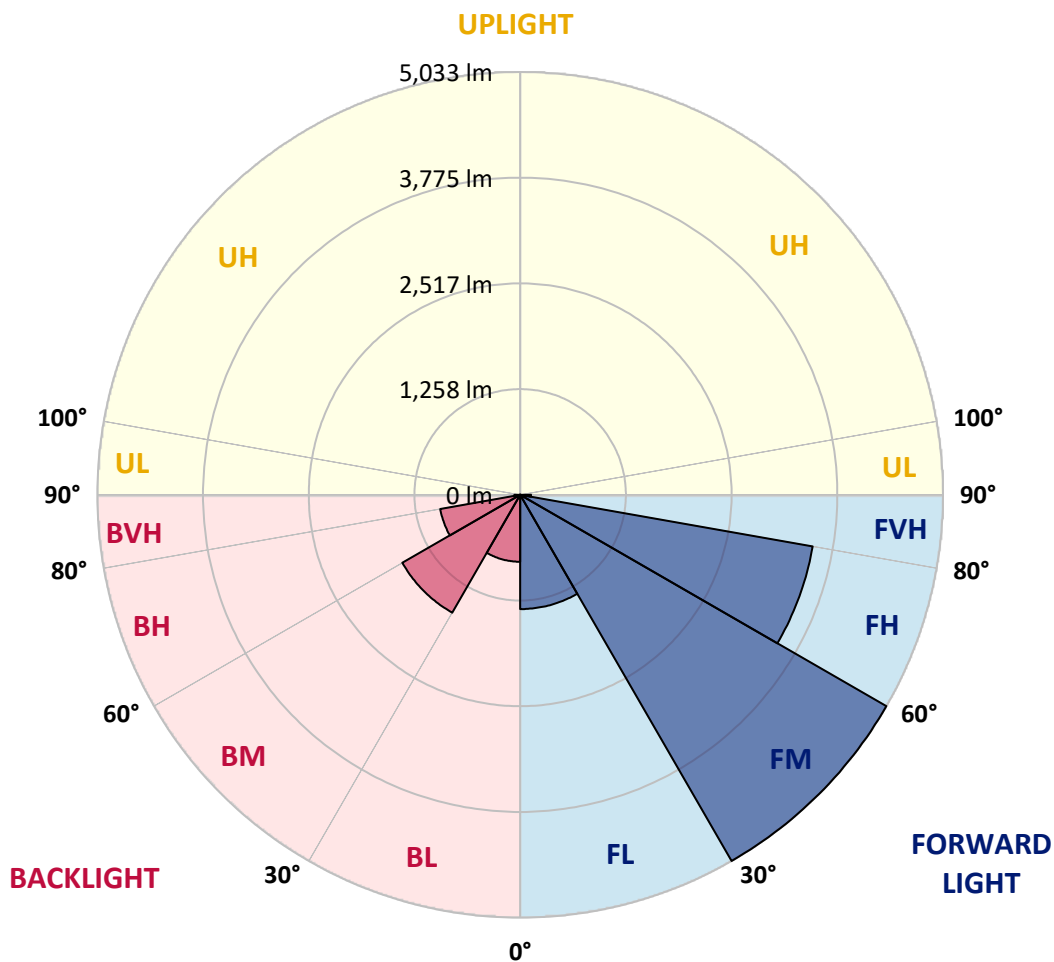
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1360.0	10.1			
FM	(30°-60°)	5033.2	37.3			
FH	(60°-80°)	3535.7	26.2			G2/5000
FVH	(80°-90°)	129.6	1.0			G2/225
BL	(0°-30°)	797.2	5.9	B2/1000		
BM	(30°-60°)	1620.4	12.0	B2/2500		
BH	(60°-80°)	965.8	7.1	B2/1000		G2/1000
BVH	(80°-90°)	69.1	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





REPORT NUMBER: P509485

CATALOG NUMBER: VERD-G-CA2-110-722-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2424.9	2424.9	2424.9	2424.9	2424.9	2424.9	2424.9	2424.9	2424.9	2424.9	2424.9
2.5°	2580.8	2590.6	2574.6	2559.5	2544.5	2535.6	2520.6	2478.0	2463.0	2449.7	2423.1
5°	2714.6	2727.9	2704.8	2657.0	2645.5	2608.3	2587.9	2551.6	2536.5	2513.5	2469.2
7.5°	2871.4	2873.2	2840.4	2825.3	2787.2	2736.7	2672.1	2605.6	2583.5	2559.5	2503.7
10°	2962.7	2981.3	2949.4	2902.4	2875.8	2830.7	2762.4	2674.7	2626.0	2583.5	2521.4
12.5°	3091.1	3095.6	3044.2	3017.6	2982.2	2925.4	2859.0	2782.8	2735.0	2656.1	2543.6
15°	3185.0	3187.7	3141.6	3113.3	3079.6	3045.9	2974.2	2894.4	2847.5	2768.6	2597.6
17.5°	3252.4	3263.9	3235.5	3215.2	3179.7	3155.8	3099.1	3036.2	2975.1	2904.2	2710.2
20°	3325.9	3332.1	3279.8	3288.7	3282.5	3271.9	3245.3	3185.9	3136.3	3042.4	2800.5
22.5°	3346.3	3335.6	3349.8	3384.4	3401.2	3413.6	3405.6	3392.4	3347.2	3230.2	2971.5
25°	3316.2	3329.4	3363.1	3438.4	3532.3	3588.1	3628.0	3637.8	3624.5	3512.8	3200.1
27.5°	3308.2	3302.0	3356.9	3485.4	3643.1	3773.3	3852.2	3926.6	3892.9	3822.9	3457.9
30°	3274.5	3271.9	3368.4	3500.4	3703.3	3945.2	4086.1	4211.9	4195.9	4125.0	3760.0
32.5°	3192.1	3209.8	3284.3	3512.8	3795.5	4111.8	4283.6	4490.1	4514.0	4461.7	4065.7
35°	3085.8	3092.0	3210.7	3480.1	3867.2	4257.9	4507.8	4794.8	4850.6	4848.9	4409.4
37.5°	2951.1	2986.6	3113.3	3398.6	3898.2	4391.7	4723.1	5119.1	5230.7	5213.9	4753.2
40°	2816.5	2838.6	2988.4	3294.9	3900.9	4481.2	4905.6	5465.5	5589.5	5592.2	5144.8
42.5°	2614.5	2651.7	2808.5	3158.5	3841.5	4557.4	5087.2	5828.7	5969.6	5990.0	5508.0
45°	2446.1	2458.5	2597.6	2946.7	3713.1	4598.1	5289.2	6200.9	6428.5	6411.7	5823.4
47.5°	2228.2	2276.9	2424.0	2746.5	3512.0	4605.2	5464.6	6633.2	6914.9	6876.0	6253.1
50°	1724.1	1778.1	2178.6	2565.7	3257.7	4524.6	5605.5	7147.1	7376.5	7334.9	6619.0
52.5°	1520.3	1546.9	1709.0	2354.9	2993.7	4332.4	5718.0	7634.3	7885.1	7756.6	7046.9
55°	1433.5	1445.9	1519.4	1926.1	2760.7	4017.0	5782.7	8181.0	8321.8	8131.4	7445.6
57.5°	1339.6	1368.8	1406.0	1623.1	2501.1	3580.2	5742.8	8634.6	8657.6	8468.0	7785.8
60°	1251.0	1263.4	1340.5	1454.8	2202.5	3129.2	5517.8	8917.2	8998.7	8765.7	8195.2
62.5°	1172.1	1194.3	1239.5	1346.7	2003.2	2778.4	5117.3	9026.2	9176.8	9025.3	8471.6
65°	1097.7	1104.8	1156.2	1253.6	1782.6	2605.6	4886.1	8854.3	9098.8	9074.9	8593.0
67.5°	1010.0	1018.0	1063.2	1130.5	1507.0	2413.4	4283.6	8611.6	8817.1	8898.6	8523.8
70°	895.7	901.9	955.1	994.9	1263.4	2129.9	3597.0	8239.5	8461.8	8386.5	8059.6
72.5°	764.6	774.3	816.9	866.5	1050.8	1795.8	2817.4	7460.7	7970.1	7920.5	7370.3
75°	617.5	632.6	667.1	726.5	854.1	1426.4	1994.3	6036.9	7124.9	7199.3	6360.3
77.5°	292.4	307.4	338.4	388.1	517.4	994.9	1091.5	3403.0	5548.8	6009.5	5120.9
80°	95.7	97.5	229.5	262.2	328.7	613.1	445.6	1110.1	1643.5	2779.3	2754.5
82.5°	51.4	55.8	124.0	152.4	164.8	164.8	130.2	489.9	691.9	846.1	979.9
85°	27.5	28.4	43.4	52.3	56.7	45.2	33.7	202.0	324.3	404.9	401.3
87.5°	11.5	12.4	13.3	11.5	9.7	6.2	4.4	3.5	3.5	3.5	3.5
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: P509485

CATALOG NUMBER: VERD-G-CA2-110-722-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2424.9	2424.9	2424.9	2424.9	2424.9	2424.9	2424.9	2424.9	2424.9	2424.9	2424.9
2.5°	2409.8	2397.4	2391.2	2365.5	2337.2	2307.0	2283.1	2284.0	2302.6	2316.8	2315.9
5°	2437.3	2406.3	2368.2	2307.9	2283.1	2261.0	2234.4	2199.0	2210.5	2224.7	2235.3
7.5°	2452.3	2412.5	2361.1	2271.6	2230.9	2183.0	2158.2	2112.1	2092.6	2106.8	2106.8
10°	2447.0	2406.3	2317.7	2252.1	2172.4	2097.1	2047.5	2035.9	2019.1	2016.5	2015.6
12.5°	2482.5	2422.2	2291.1	2194.5	2121.9	2025.3	1972.2	1961.5	1965.1	1942.9	1946.5
15°	2517.0	2448.8	2268.1	2168.0	2055.4	1942.0	1899.5	1860.5	1878.2	1859.6	1864.1
17.5°	2579.0	2496.6	2255.7	2114.8	1970.4	1872.0	1795.8	1751.5	1749.8	1747.1	1740.0
20°	2649.9	2535.6	2253.9	2068.7	1901.3	1784.3	1675.4	1626.6	1591.2	1603.6	1604.5
22.5°	2778.4	2609.2	2272.5	2026.2	1804.7	1673.6	1562.0	1487.5	1445.0	1452.1	1453.0
25°	2960.9	2763.3	2321.2	1989.9	1724.1	1545.1	1435.3	1341.3	1290.0	1290.8	1305.0
27.5°	3225.8	2947.6	2399.2	1958.9	1638.1	1423.7	1274.9	1182.8	1126.9	1126.1	1135.8
30°	3488.0	3177.9	2510.8	1914.6	1529.2	1260.7	1092.4	1018.9	984.3	961.3	966.6
32.5°	3747.6	3425.1	2656.1	1891.5	1401.6	1068.5	927.6	877.1	833.7	791.2	795.6
35°	4041.8	3657.3	2802.3	1845.5	1248.3	909.0	810.7	741.6	685.7	663.6	659.2
37.5°	4387.3	3927.5	2903.3	1806.5	1066.7	801.8	682.2	630.8	594.5	570.6	567.0
40°	4692.1	4154.3	3014.9	1715.2	892.2	705.2	569.7	542.2	537.8	519.2	516.5
42.5°	5000.4	4432.5	3091.1	1595.6	772.6	582.1	487.3	503.2	528.0	516.5	516.5
45°	5314.9	4723.1	3106.2	1416.7	658.3	492.6	466.9	497.0	531.6	534.2	533.3
47.5°	5659.5	4980.9	3135.4	1160.6	576.8	469.6	463.4	488.2	532.5	548.4	544.9
50°	6050.2	5260.0	3053.9	885.1	528.0	472.2	466.9	478.4	526.3	544.0	537.8
52.5°	6430.3	5528.4	2919.2	675.1	497.0	474.9	485.5	476.6	511.2	528.9	536.0
55°	6782.9	5824.3	2634.0	600.7	475.8	471.3	500.6	484.6	497.0	502.3	512.1
57.5°	7140.0	6042.3	2331.0	563.5	464.2	466.9	491.7	484.6	492.6	486.4	478.4
60°	7474.9	6271.7	1940.3	528.9	451.8	464.2	474.0	472.2	477.5	466.0	460.7
62.5°	7759.3	6395.8	1531.8	498.8	441.2	451.8	450.1	458.9	459.8	446.5	443.0
65°	7889.5	6448.9	1169.5	471.3	425.3	435.9	427.0	428.8	429.7	412.0	411.1
67.5°	7757.5	6156.6	801.8	430.6	408.4	421.7	404.9	402.2	396.0	378.3	379.2
70°	7372.1	5668.4	535.1	372.1	372.1	395.1	385.4	379.2	364.1	347.3	352.6
72.5°	6510.9	4839.1	347.3	300.3	326.9	364.1	359.7	350.8	315.4	267.6	269.3
75°	5569.2	3840.6	231.2	218.8	249.8	315.4	299.5	278.2	264.0	279.1	297.7
77.5°	4336.8	2448.8	129.4	125.8	148.0	221.5	249.8	254.3	359.7	427.0	422.6
80°	2251.2	1243.9	75.3	62.0	87.7	148.8	196.7	267.6	446.5	336.7	326.0
82.5°	885.1	466.0	46.1	32.8	39.0	61.1	130.2	384.5	338.4	170.1	163.0
85°	303.0	105.4	18.6	16.8	18.6	25.7	51.4	344.6	175.4	108.1	102.8
87.5°	3.5	3.5	4.4	5.3	6.2	6.2	14.2	163.9	81.5	50.5	48.7
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)