

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: P509493

Luminaire Tested: **VERD-G-CA2-110-727-U-T2**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509493
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-CA2-110-727-U-T2
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1020mA LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14038 lumens
Efficiency: N/A
Efficacy: 124.0 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

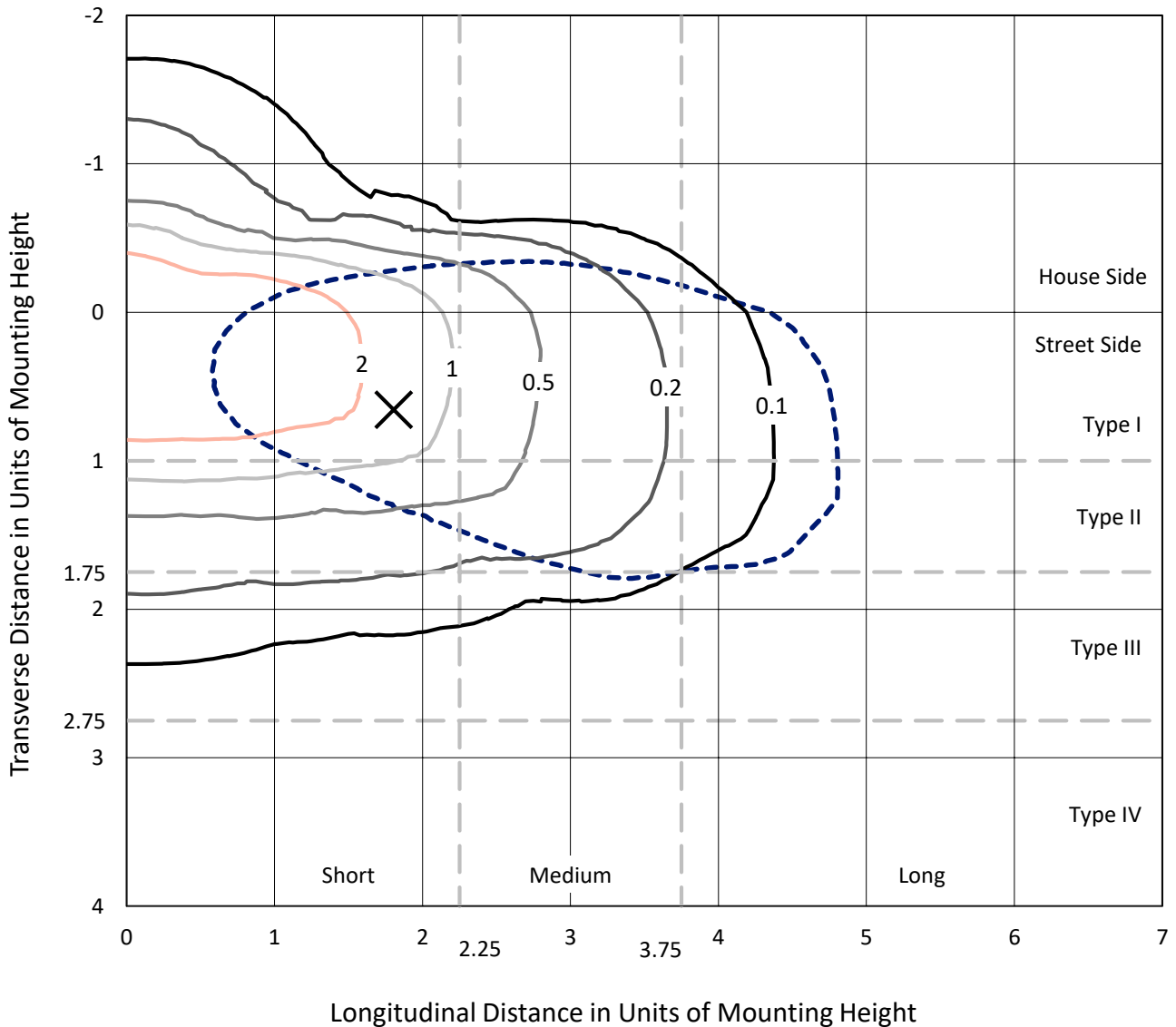
Input Watts (W): 113.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

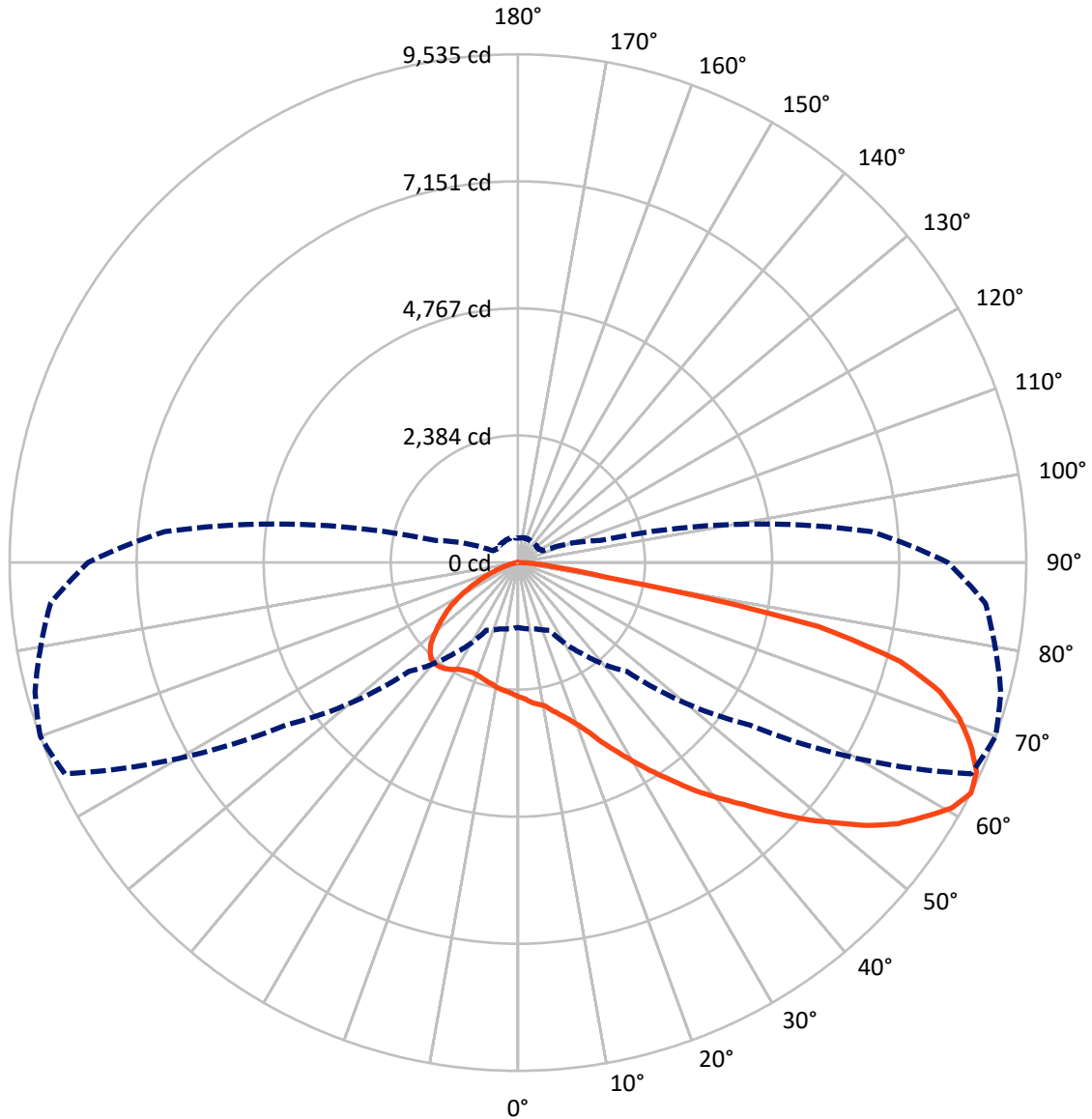
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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
House Side	Lumens	3587.2	0.0	3587.2
	% Fixture	25.6	0.0	25.6
Street Side	Lumens	10450.8	0.0	10450.8
	% Fixture	74.4	0.0	74.4
Total	Lumens	14038.0	0.0	14038.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.3	1.7
10°-20°	740.1	5.3
20°-30°	1258.0	9.0
30°-40°	1810.2	12.9
40°-50°	2349.1	16.7
50°-60°	2753.8	19.6
60°-70°	2824.0	20.1
70°-80°	1853.1	13.2
80°-90°	206.4	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°	14038.0	100.0
0°-180°	14038.0	100.0

Coefficient of Utilization



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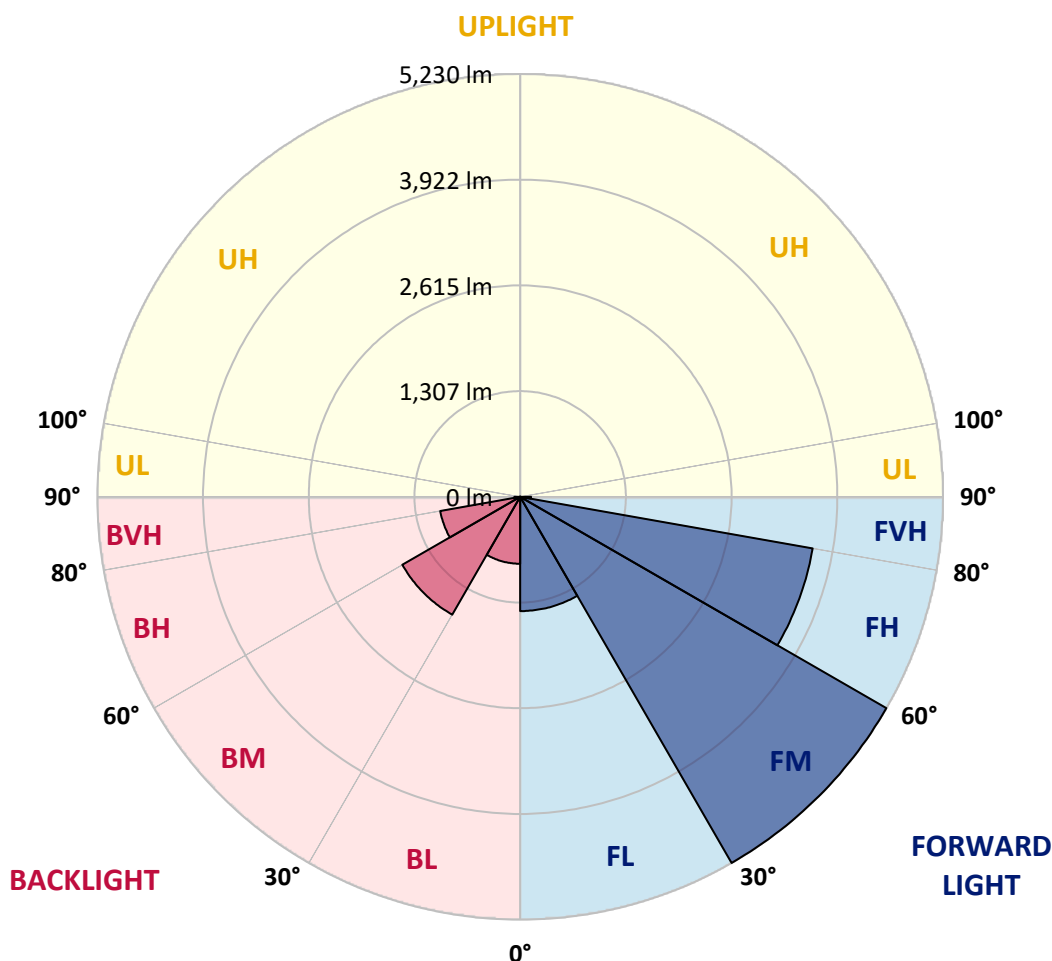
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1413.0	10.1			
FM (30°-60°)	5229.5	37.3			
FH (60°-80°)	3673.6	26.2			G2/5000
FVH (80°-90°)	134.6	1.0			G2/225
BL (0°-30°)	828.3	5.9	B2/1000		
BM (30°-60°)	1683.6	12.0	B2/2500		
BH (60°-80°)	1003.5	7.1	B3/2500		G3/2500
BVH (80°-90°)	71.8	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°	2519.5	2519.5	2519.5	2519.5	2519.5	2519.5	2519.5	2519.5	2519.5	2519.5	2519.5
2.5°	2681.5	2691.6	2675.0	2659.4	2643.7	2634.5	2618.9	2574.7	2559.0	2545.2	2517.6
5°	2820.5	2834.3	2810.3	2760.6	2748.7	2710.0	2688.8	2651.1	2635.4	2611.5	2565.5
7.5°	2983.4	2985.2	2951.2	2935.5	2896.0	2843.5	2776.3	2707.2	2684.2	2659.4	2601.4
10°	3078.2	3097.5	3064.4	3015.6	2988.0	2941.1	2870.2	2779.0	2728.4	2684.2	2619.8
12.5°	3211.7	3216.3	3162.9	3135.3	3098.5	3039.6	2970.5	2891.4	2841.6	2759.7	2642.8
15°	3309.3	3312.0	3264.2	3234.7	3199.7	3164.7	3090.2	3007.3	2958.6	2876.6	2699.0
17.5°	3379.2	3391.2	3361.7	3340.6	3303.7	3278.9	3220.0	3154.6	3091.1	3017.5	2815.9
20°	3455.6	3462.1	3407.8	3417.0	3410.5	3399.5	3371.9	3310.2	3258.6	3161.1	2909.8
22.5°	3476.8	3465.8	3480.5	3516.4	3533.9	3546.8	3538.5	3524.7	3477.7	3356.2	3087.4
25°	3445.5	3459.3	3494.3	3572.5	3670.1	3728.1	3769.5	3779.7	3765.8	3649.9	3324.9
27.5°	3437.2	3430.8	3487.8	3621.3	3785.2	3920.5	4002.4	4079.7	4044.8	3972.0	3592.8
30°	3402.2	3399.5	3499.8	3637.0	3847.8	4099.1	4245.4	4376.2	4359.6	4285.9	3906.7
32.5°	3316.6	3335.0	3412.4	3649.9	3943.5	4272.1	4450.7	4665.2	4690.0	4635.7	4224.3
35°	3206.2	3212.6	3336.0	3615.8	4018.1	4424.0	4683.6	4981.9	5039.8	5038.0	4581.4
37.5°	3066.3	3103.1	3234.7	3531.1	4050.3	4563.0	4907.3	5318.8	5434.7	5417.3	4938.6
40°	2926.3	2949.3	3104.9	3423.4	4053.0	4656.0	5096.9	5678.7	5807.6	5810.3	5345.5
42.5°	2716.5	2755.1	2918.0	3281.7	3991.4	4735.2	5285.6	6056.1	6202.5	6223.6	5722.9
45°	2541.6	2554.4	2699.0	3061.6	3857.9	4777.5	5495.5	6442.7	6679.3	6661.8	6050.6
47.5°	2315.1	2365.7	2518.5	2853.6	3648.9	4784.9	5677.8	6891.9	7184.7	7144.2	6497.0
50°	1791.3	1847.5	2263.6	2665.8	3384.8	4701.1	5824.1	7425.8	7664.2	7621.0	6877.2
52.5°	1579.6	1607.2	1775.7	2446.7	3110.4	4501.3	5941.0	7932.1	8192.6	8059.2	7321.8
55°	1489.4	1502.3	1578.7	2001.2	2868.3	4173.6	6008.2	8500.1	8646.4	8448.5	7736.0
57.5°	1391.8	1422.2	1460.9	1686.4	2598.6	3719.8	5966.8	8971.4	8995.3	8798.3	8089.5
60°	1299.8	1312.7	1392.7	1511.5	2288.4	3251.3	5733.0	9265.0	9349.7	9107.6	8514.8
62.5°	1217.8	1240.9	1287.8	1399.2	2081.3	2886.8	5316.9	9378.3	9534.7	9377.3	8802.0
65°	1140.5	1147.9	1201.3	1302.5	1852.1	2707.2	5076.7	9199.7	9453.7	9428.9	8928.1
67.5°	1049.4	1057.7	1104.6	1174.6	1565.8	2507.5	4450.7	8947.5	9161.0	9245.7	8856.3
70°	930.6	937.1	992.3	1033.7	1312.7	2212.9	3737.3	8560.8	8791.9	8713.6	8374.0
72.5°	794.4	804.5	848.7	900.3	1091.7	1865.9	2927.3	7751.7	8281.0	8229.4	7657.8
75°	641.6	657.3	693.2	754.8	887.4	1482.0	2072.1	6272.4	7402.8	7480.1	6608.4
77.5°	303.8	319.4	351.6	403.2	537.6	1033.7	1134.1	3535.7	5765.2	6243.9	5320.6
80°	99.4	101.3	238.4	272.5	341.5	637.0	463.0	1153.4	1707.6	2887.7	2861.9
82.5°	53.4	58.0	128.9	158.3	171.2	171.2	135.3	509.0	718.9	879.1	1018.1
85°	28.5	29.5	45.1	54.3	58.9	46.9	35.0	209.9	336.9	420.7	417.0
87.5°	12.0	12.9	13.8	12.0	10.1	6.4	4.6	3.7	3.7	3.7	3.7
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°	2519.5	2519.5	2519.5	2519.5	2519.5	2519.5	2519.5	2519.5	2519.5	2519.5	2519.5
2.5°	2503.8	2490.9	2484.5	2457.8	2428.3	2397.0	2372.2	2373.1	2392.4	2407.2	2406.2
5°	2532.3	2500.1	2460.5	2398.0	2372.2	2349.2	2321.6	2284.7	2296.7	2311.4	2322.5
7.5°	2548.0	2506.6	2453.2	2360.2	2317.9	2268.2	2242.4	2194.5	2174.3	2189.0	2189.0
10°	2542.5	2500.1	2408.1	2340.0	2257.1	2178.9	2127.3	2115.4	2097.9	2095.1	2094.2
12.5°	2579.3	2516.7	2380.5	2280.1	2204.6	2104.3	2049.1	2038.0	2041.7	2018.7	2022.4
15°	2615.2	2544.3	2356.5	2252.5	2135.6	2017.8	1973.6	1933.1	1951.5	1932.2	1936.8
17.5°	2679.6	2594.0	2343.6	2197.3	2047.2	1945.1	1865.9	1819.9	1818.0	1815.3	1807.9
20°	2753.3	2634.5	2341.8	2149.4	1975.4	1853.9	1740.7	1690.1	1653.3	1666.1	1667.1
22.5°	2886.8	2710.9	2361.1	2105.2	1875.1	1738.9	1622.9	1545.6	1501.4	1508.7	1509.7
25°	3076.4	2871.1	2411.8	2067.5	1791.3	1605.4	1491.2	1393.7	1340.3	1341.2	1355.9
27.5°	3351.6	3062.6	2492.8	2035.3	1702.0	1479.3	1324.6	1228.9	1170.9	1170.0	1180.1
30°	3624.1	3301.9	2608.8	1989.2	1588.8	1309.9	1135.0	1058.6	1022.7	998.8	1004.3
32.5°	3893.8	3558.7	2759.7	1965.3	1456.3	1110.1	963.8	911.3	866.2	822.0	826.6
35°	4199.4	3799.9	2911.6	1917.4	1297.0	944.5	842.3	770.5	712.5	689.5	684.9
37.5°	4558.4	4080.7	3016.5	1876.9	1108.3	833.1	708.8	655.4	617.7	592.8	589.1
40°	4875.1	4316.3	3132.5	1782.1	927.0	732.7	591.9	563.4	558.8	539.4	536.7
42.5°	5195.4	4605.4	3211.7	1657.9	802.7	604.8	506.3	522.9	548.6	536.7	536.7
45°	5522.2	4907.3	3227.3	1471.9	683.9	511.8	485.1	516.4	552.3	555.1	554.2
47.5°	5880.3	5175.2	3257.7	1205.9	599.3	487.9	481.4	507.2	553.2	569.8	566.1
50°	6286.2	5465.1	3173.0	919.6	548.6	490.6	485.1	497.1	546.8	565.2	558.8
52.5°	6681.1	5744.0	3033.1	701.4	516.4	493.4	504.4	495.2	531.1	549.6	556.9
55°	7047.5	6051.5	2736.7	624.1	494.3	489.7	520.1	503.5	516.4	521.9	532.1
57.5°	7418.5	6277.9	2421.9	585.5	482.4	485.1	510.9	503.5	511.8	505.4	497.1
60°	7766.4	6516.4	2015.9	549.6	469.5	482.4	492.5	490.6	496.2	484.2	478.7
62.5°	8061.9	6645.2	1591.6	518.3	458.4	469.5	467.6	476.8	477.7	463.9	460.3
65°	8197.2	6700.5	1215.1	489.7	441.8	452.9	443.7	445.5	446.5	428.0	427.1
67.5°	8060.1	6396.7	833.1	447.4	424.4	438.2	420.7	417.9	411.5	393.1	394.0
70°	7659.6	5889.5	556.0	386.6	386.6	410.6	400.4	394.0	378.3	360.8	366.4
72.5°	6764.9	5027.9	360.8	312.1	339.7	378.3	373.7	364.5	327.7	278.0	279.8
75°	5786.4	3990.5	240.3	227.4	259.6	327.7	311.1	289.0	274.3	290.0	309.3
77.5°	4505.9	2544.3	134.4	130.7	153.7	230.1	259.6	264.2	373.7	443.7	439.1
80°	2339.0	1292.4	78.2	64.4	91.1	154.6	204.4	278.0	463.9	349.8	338.8
82.5°	919.6	484.2	47.9	34.1	40.5	63.5	135.3	399.5	351.6	176.7	169.4
85°	314.8	109.5	19.3	17.5	19.3	26.7	53.4	358.1	182.3	112.3	106.8
87.5°	3.7	3.7	4.6	5.5	6.4	6.4	14.7	170.3	84.7	52.5	50.6
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)