

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: P233838

Luminaire Tested: **VERD-G-C029-D-U-T2-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233838
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-10)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-C029-D-U-T2-7030
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1040mA LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15104 lumens
Efficiency: N/A
Efficacy: 124.8 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B3 - U0 - G3

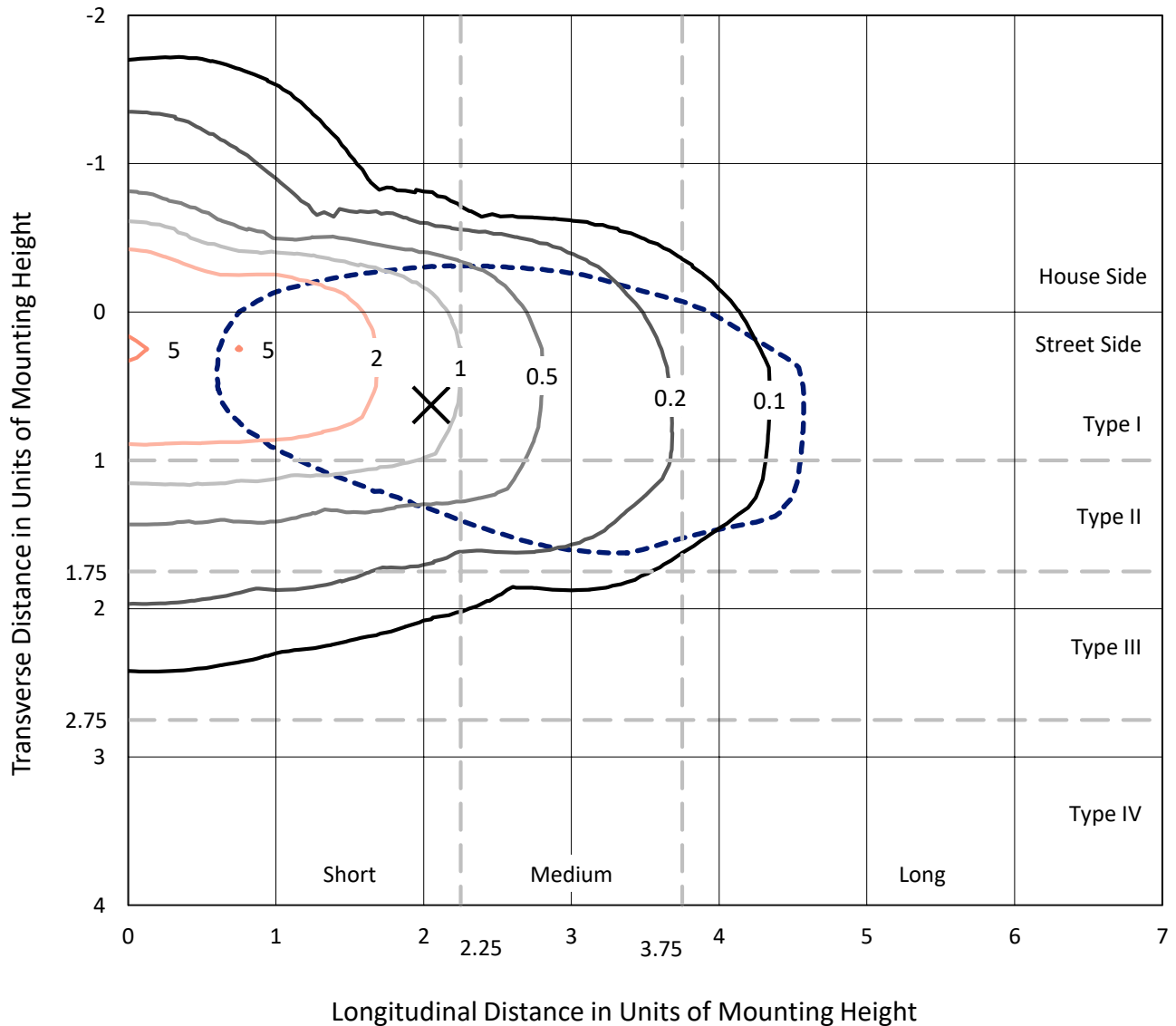
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P233838
 CATALOG NUMBER: VERD-G-C029-D-U-T2-7030

Iso-Footcandle Lines of Horizontal Illumination

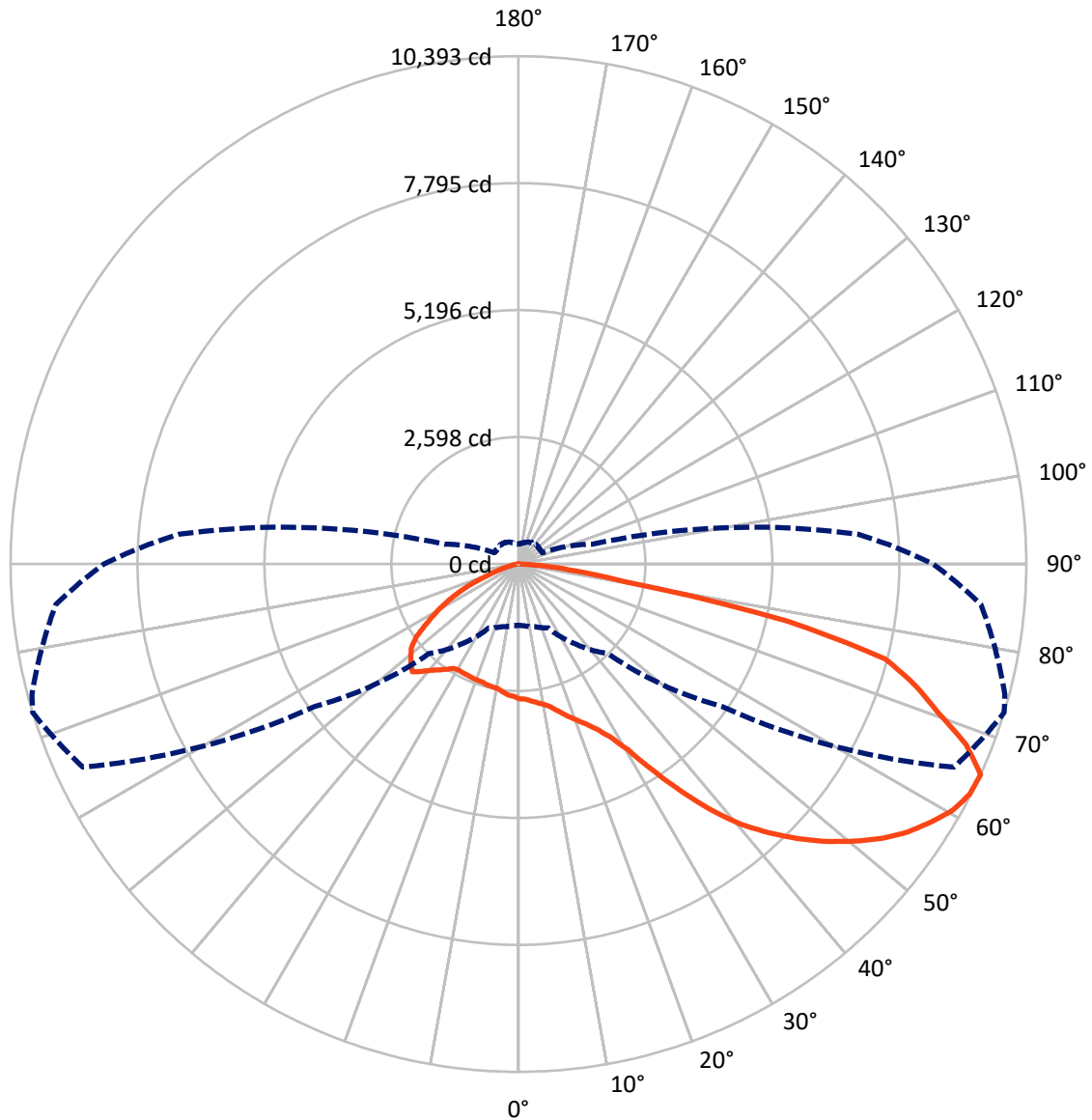
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type II - Short - Non-Cutoff

REPORT NUMBER: P233838
CATALOG NUMBER: VERD-G-C029-D-U-T2-7030

Luminous Intensity Polar Plot



— Vertical Plane Through 73-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P233838

CATALOG NUMBER: VERD-G-C029-D-U-T2-7030

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3871.8	0.0	3871.8
	% Fixture	25.6	0.0	25.6
Street Side	Lumens	11232.2	0.0	11232.2
	% Fixture	74.4	0.0	74.4
Total	Lumens	15104.0	0.0	15104.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.5	1.7
10°-20°	796.9	5.3
20°-30°	1336.7	8.8
30°-40°	1960.2	13.0
40°-50°	2649.2	17.5
50°-60°	3069.0	20.3
60°-70°	2997.8	19.8
70°-80°	1800.2	11.9
80°-90°	230.6	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°	15104.0	100.0
0°-180°	15104.0	100.0



REPORT NUMBER: P233838

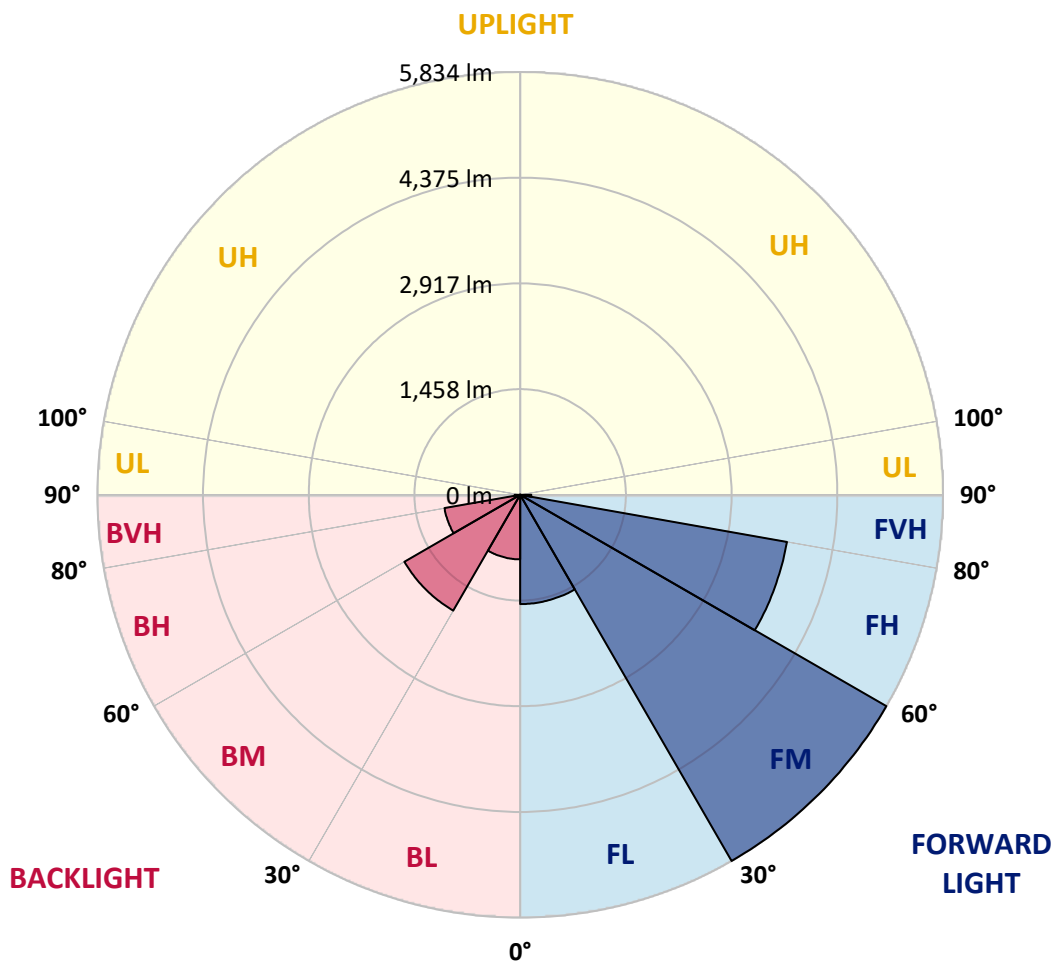
CATALOG NUMBER: VERD-G-C029-D-U-T2-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1507.1	10.0			
FM (30°-60°)	5833.6	38.6			
FH (60°-80°)	3737.9	24.7			G2/5000
FVH (80°-90°)	153.5	1.0			G2/225
BL (0°-30°)	889.9	5.9	B2/1000		
BM (30°-60°)	1844.8	12.2	B2/2500		
BH (60°-80°)	1060.1	7.0	B3/2500		G3/2500
BVH (80°-90°)	77.0	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





REPORT NUMBER: P233838

CATALOG NUMBER: VERD-G-C029-D-U-T2-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	2761.8	2761.8	2761.8	2761.8	2761.8	2761.8	2761.8	2761.8	2761.8	2761.8	2761.8
2.5°	2931.8	2942.8	2930.4	2894.8	2876.9	2864.6	2827.6	2794.7	2768.6	2765.9	2741.2
5°	3044.2	3060.7	3040.1	2994.9	2977.0	2951.0	2909.9	2864.6	2818.0	2808.4	2759.0
7.5°	3186.9	3189.6	3178.6	3133.4	3096.3	3041.5	2970.2	2922.2	2868.7	2853.6	2775.5
10°	3307.5	3306.2	3292.4	3248.6	3211.5	3163.5	3063.4	2985.3	2922.2	2903.0	2794.7
12.5°	3422.7	3420.0	3406.3	3361.0	3314.4	3274.6	3199.2	3093.6	3008.6	2983.9	2849.5
15°	3565.3	3558.5	3536.5	3476.2	3439.2	3392.5	3337.7	3232.1	3134.7	3100.5	2929.1
17.5°	3675.0	3673.7	3657.2	3606.5	3562.6	3511.8	3461.1	3378.8	3273.2	3234.8	3007.2
20°	3738.1	3732.6	3728.5	3688.7	3677.8	3650.3	3577.7	3514.6	3409.0	3369.2	3095.0
22.5°	3805.3	3806.7	3808.0	3787.5	3819.0	3795.7	3742.2	3665.4	3558.5	3513.2	3218.4
25°	3820.4	3823.1	3850.6	3895.8	3934.2	3976.7	3938.3	3862.9	3747.7	3699.7	3387.1
27.5°	3777.9	3788.8	3871.1	3947.9	4083.7	4138.5	4131.7	4127.6	4009.6	3961.6	3618.8
30°	3816.3	3816.3	3872.5	4004.1	4175.5	4319.5	4351.1	4438.8	4403.2	4368.9	4008.2
32.5°	3701.1	3721.7	3821.8	4005.5	4277.0	4486.8	4629.4	4873.5	5014.8	4986.0	4559.5
35°	3484.4	3511.8	3658.6	3939.7	4327.8	4684.3	4939.3	5409.7	5682.6	5716.9	5223.2
37.5°	3317.1	3340.4	3524.2	3836.8	4347.0	4869.4	5297.3	6013.1	6365.5	6347.7	5785.4
40°	3112.8	3153.9	3339.1	3714.8	4301.7	5027.1	5685.3	6567.1	7000.4	6918.1	6320.2
42.5°	2929.1	2964.7	3119.7	3520.1	4238.6	5116.2	6036.4	7137.5	7517.4	7451.5	6826.2
45°	2734.3	2765.9	2909.9	3287.0	4091.9	5160.1	6365.5	7683.3	8013.8	7939.7	7295.2
47.5°	2510.8	2553.3	2724.7	3067.6	3876.6	5132.7	6605.5	8157.7	8485.5	8430.6	7683.3
50°	1947.2	1991.1	2439.5	2861.9	3577.7	5018.9	6820.7	8632.2	8911.9	8859.8	8026.1
52.5°	1767.6	1786.8	1926.6	2626.0	3266.4	4794.0	6955.1	9023.0	9327.4	9275.3	8349.7
55°	1657.9	1671.6	1749.8	2144.7	3001.7	4432.0	6971.6	9428.9	9677.1	9608.6	8693.9
57.5°	1545.4	1560.5	1646.9	1849.9	2735.7	3865.6	6797.4	9773.1	9961.0	9886.9	9023.0
60°	1450.8	1459.0	1544.1	1683.9	2435.4	3303.4	6349.0	10007.6	10222.9	10126.9	9345.3
62.5°	1364.4	1375.4	1437.1	1564.6	2183.1	2882.4	5723.7	10009.0	10366.9	10307.9	9508.4
65°	1252.0	1268.4	1328.8	1444.0	1978.8	2594.5	5076.5	9834.8	10392.9	10305.2	9500.2
67.5°	1121.7	1142.3	1197.1	1289.0	1707.2	2287.3	4174.2	9605.8	9884.2	9869.1	9108.0
70°	991.4	991.4	1053.1	1127.2	1416.5	1958.2	3297.9	8789.9	9108.0	9131.3	8404.6
72.5°	836.5	839.2	887.2	951.7	1140.9	1607.1	2402.5	7514.6	8491.0	8208.5	7580.4
75°	702.1	699.4	748.7	802.2	928.4	1265.7	1567.4	5520.8	7760.1	7823.1	6671.3
77.5°	373.0	359.3	422.4	464.9	544.4	703.5	869.4	2768.6	5619.5	5742.9	5341.1
80°	105.6	107.0	279.7	312.7	357.9	348.3	403.2	1055.9	2222.8	2505.3	3114.2
82.5°	63.1	72.7	159.1	186.5	139.9	90.5	153.6	586.9	1150.5	1289.0	1545.4
85°	32.9	35.7	56.2	69.9	53.5	45.3	46.6	246.8	559.5	569.1	617.1
87.5°	15.1	15.1	20.6	21.9	13.7	8.2	5.5	4.1	4.1	2.7	2.7
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: P233838

CATALOG NUMBER: VERD-G-C029-D-U-T2-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2761.8	2761.8	2761.8	2761.8	2761.8	2761.8	2761.8	2761.8	2761.8	2761.8	2761.8
2.5°	2722.0	2735.7	2712.4	2694.6	2680.9	2672.6	2663.0	2639.7	2646.6	2656.2	2654.8
5°	2735.7	2742.6	2701.4	2645.2	2593.1	2556.1	2531.4	2494.4	2494.4	2509.4	2509.4
7.5°	2748.0	2738.4	2654.8	2560.2	2501.2	2471.0	2431.3	2391.5	2384.7	2395.6	2397.0
10°	2754.9	2713.8	2597.2	2509.4	2432.6	2370.9	2320.2	2275.0	2273.6	2288.7	2291.4
12.5°	2785.1	2705.5	2593.1	2472.4	2357.2	2291.4	2231.1	2180.3	2162.5	2163.9	2166.6
15°	2831.7	2738.4	2587.6	2421.7	2296.9	2209.1	2121.4	2056.9	2040.5	2062.4	2070.6
17.5°	2887.9	2791.9	2561.5	2375.1	2222.8	2117.3	2029.5	1971.9	1919.8	1896.5	1892.4
20°	2962.0	2837.2	2575.3	2306.5	2151.5	2010.3	1900.6	1830.7	1786.8	1784.0	1781.3
22.5°	3059.3	2887.9	2578.0	2261.2	2039.1	1892.4	1756.6	1716.8	1638.7	1609.9	1622.2
25°	3188.2	2964.7	2571.1	2213.2	1952.7	1755.2	1592.1	1519.4	1490.6	1457.7	1460.4
27.5°	3354.1	3086.7	2589.0	2150.2	1811.5	1587.9	1405.6	1327.4	1283.5	1256.1	1260.2
30°	3691.5	3271.9	2587.6	2089.8	1681.2	1415.2	1209.5	1157.4	1113.5	1088.8	1101.1
32.5°	4171.4	3673.7	2645.2	2008.9	1533.1	1183.4	1044.9	985.9	948.9	921.5	928.4
35°	4765.2	4111.1	2793.3	1899.2	1364.4	1006.5	911.9	839.2	794.0	783.0	778.9
37.5°	5316.4	4497.8	2933.2	1826.5	1171.1	909.2	789.9	717.2	677.4	691.1	691.1
40°	5808.7	5010.7	3090.9	1710.0	995.5	798.1	654.1	621.2	600.6	623.9	632.2
42.5°	6180.4	5502.9	3304.8	1556.4	852.9	666.4	559.5	582.8	591.0	607.5	603.4
45°	6641.1	5784.1	3516.0	1413.8	728.1	555.4	540.3	588.3	607.5	622.6	615.7
47.5°	7064.8	6002.1	3473.4	1150.5	613.0	537.5	549.9	588.3	621.2	645.9	641.8
50°	7429.6	6275.0	3392.5	894.1	588.3	554.0	559.5	573.2	622.6	639.0	639.0
52.5°	7657.2	6545.1	3292.4	722.7	606.1	574.6	565.0	563.6	596.5	608.8	597.9
55°	7931.5	6824.9	3033.3	670.6	613.0	588.3	580.1	567.7	577.3	567.7	573.2
57.5°	8235.9	7100.5	2635.6	655.5	608.8	584.2	628.0	562.2	556.7	522.5	514.2
60°	8503.3	7208.8	2287.3	621.2	586.9	573.2	584.2	555.4	527.9	482.7	464.9
62.5°	8603.4	7199.2	1933.5	585.5	554.0	556.7	555.4	534.8	510.1	464.9	453.9
65°	8482.7	6979.8	1567.4	543.0	527.9	538.9	525.2	495.0	453.9	416.9	407.3
67.5°	8074.1	6420.3	1164.2	486.8	485.4	506.0	496.4	455.3	410.0	381.2	381.2
70°	7292.5	5731.9	754.2	404.5	434.7	470.3	470.3	426.5	367.5	342.8	349.7
72.5°	6436.8	4932.5	488.2	300.3	342.8	426.5	423.7	393.6	338.7	307.2	308.5
75°	5575.6	3913.6	315.4	207.1	222.1	363.4	375.7	320.9	263.3	224.9	218.0
77.5°	4238.6	2944.1	200.2	120.7	141.2	222.1	285.2	267.4	268.8	327.7	325.0
80°	2606.8	1774.4	145.4	59.0	69.9	145.4	230.4	255.1	357.9	235.9	216.7
82.5°	1305.5	829.6	76.8	35.7	39.8	64.5	137.1	305.8	260.5	156.3	148.1
85°	488.2	223.5	23.3	17.8	21.9	32.9	56.2	279.7	165.9	124.8	122.0
87.5°	2.7	4.1	4.1	5.5	8.2	9.6	20.6	133.0	83.6	60.3	57.6
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)