

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: P233835

Luminaire Tested: **VERD-G-C02-D-U-T2-8027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233835
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-C02-D-U-T2-8027
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 1175mA LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15088 lumens
Efficiency: N/A
Efficacy: 109.3 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

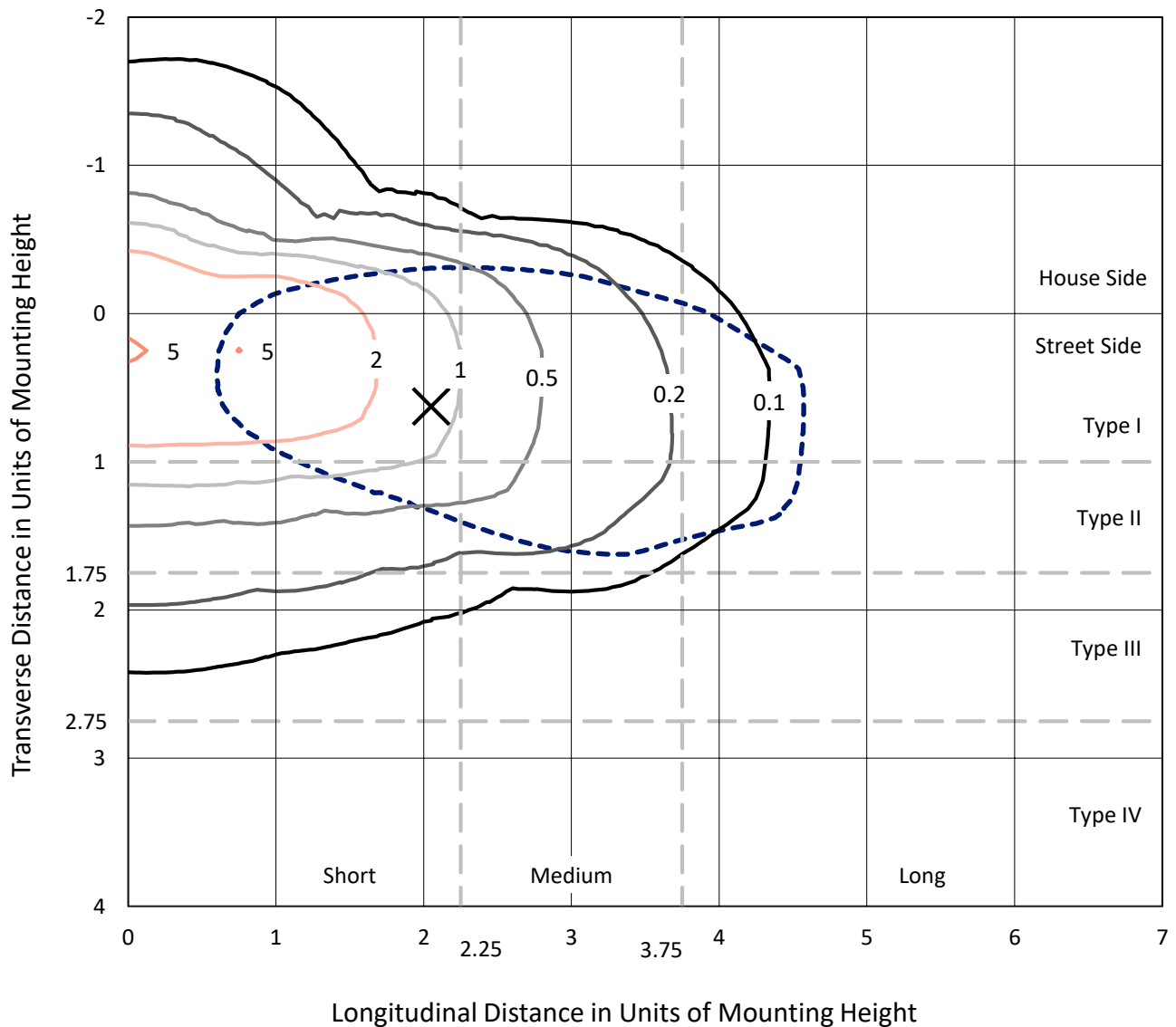
Input Watts (W): 138
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P233835
 CATALOG NUMBER: VERD-G-C02-D-U-T2-8027

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

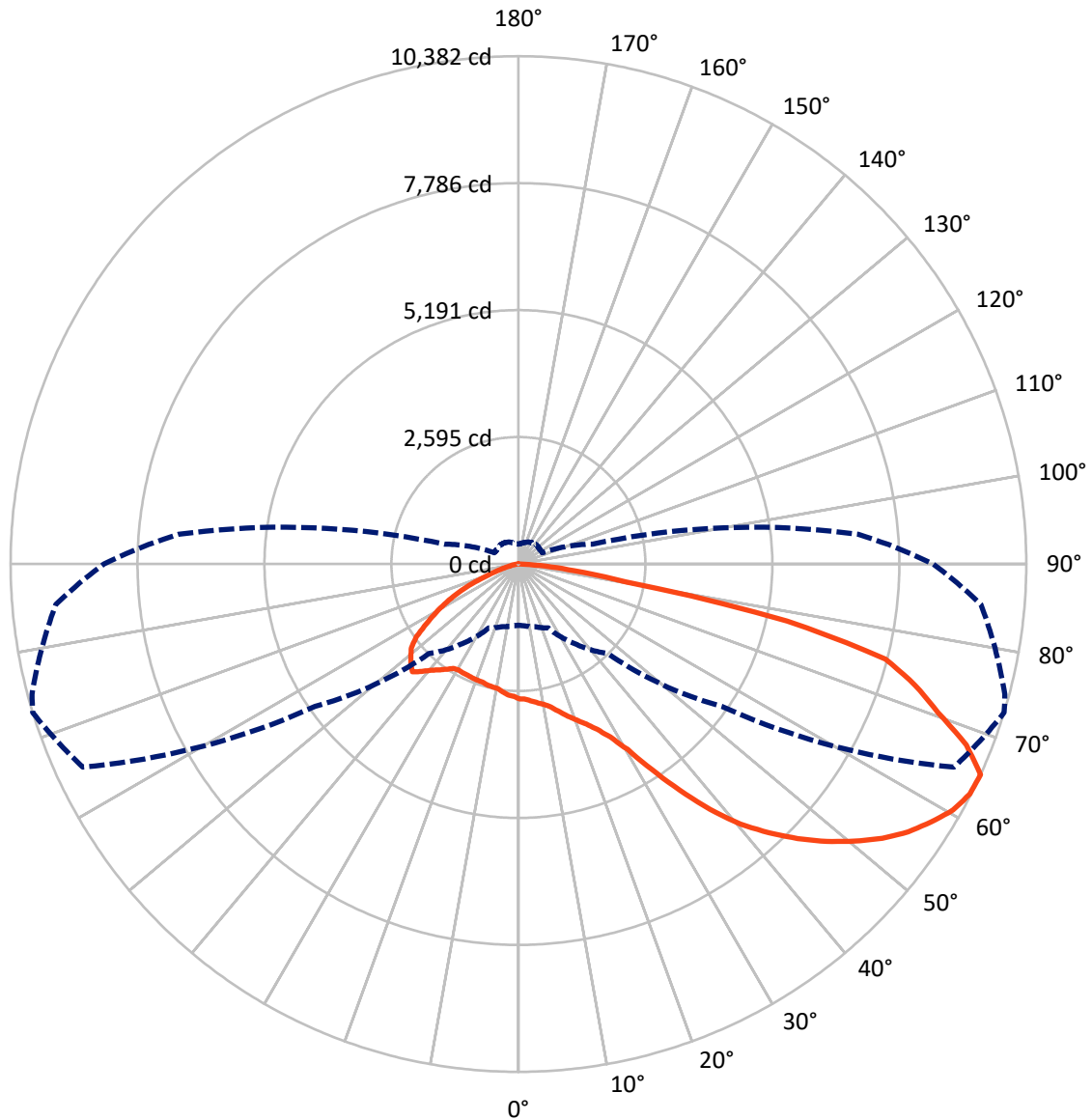


Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type II - Short - Non-Cutoff

REPORT NUMBER: P233835

CATALOG NUMBER: VERD-G-C02-D-U-T2-8027

Luminous Intensity Polar Plot



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

REPORT NUMBER: P233835

CATALOG NUMBER: VERD-G-C02-D-U-T2-8027

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3867.7	0.0	3867.7
	% Fixture	25.6	0.0	25.6
Street Side	Lumens	11220.3	0.0	11220.3
	% Fixture	74.4	0.0	74.4
Total	Lumens	15088.0	0.0	15088.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.2	1.7
10°-20°	796.0	5.3
20°-30°	1335.2	8.8
30°-40°	1958.1	13.0
40°-50°	2646.4	17.5
50°-60°	3065.7	20.3
60°-70°	2994.6	19.8
70°-80°	1798.3	11.9
80°-90°	230.3	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°	15088.0	100.0
0°-180°	15088.0	100.0



REPORT NUMBER: P233835

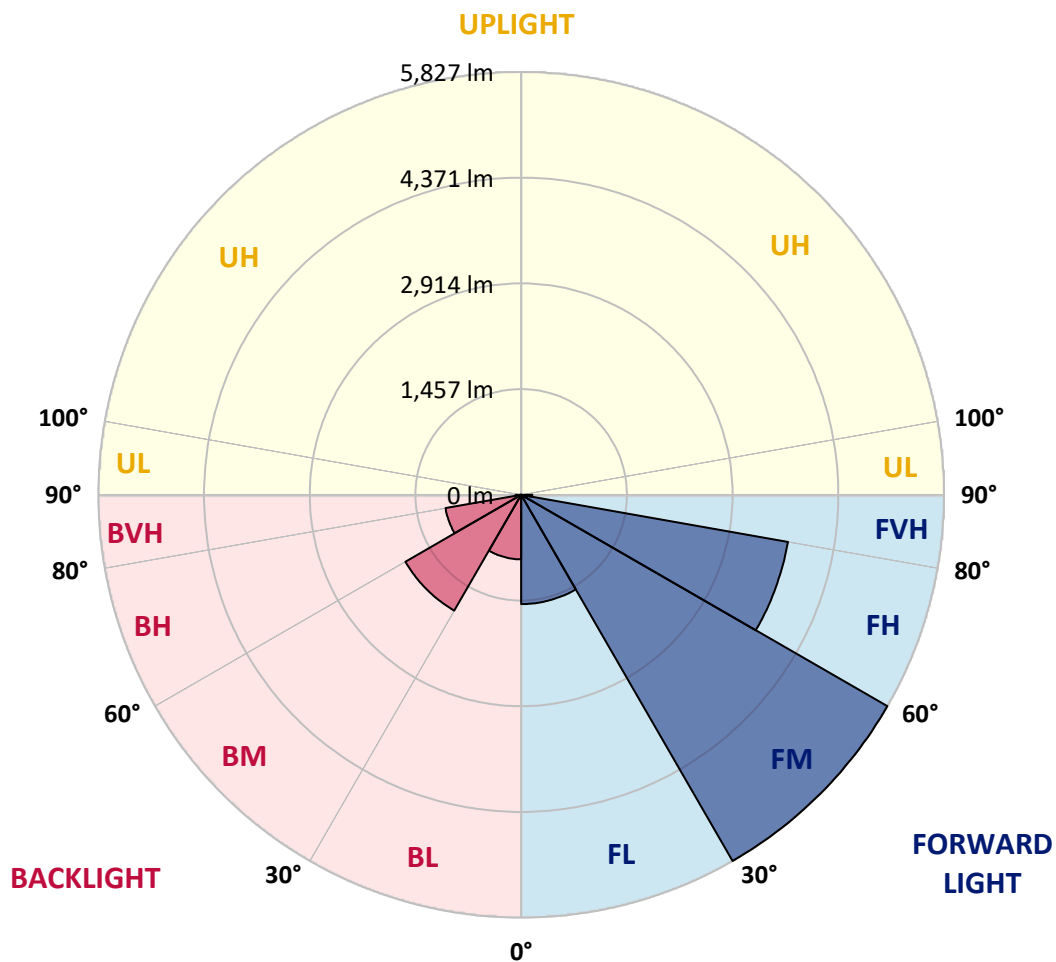
CATALOG NUMBER: VERD-G-C02-D-U-T2-8027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1505.5	10.0			
FM (30°-60°)	5827.5	38.6			
FH (60°-80°)	3733.9	24.7			G2/5000
FVH (80°-90°)	153.3	1.0			G2/225
BL (0°-30°)	889.0	5.9	B2/1000		
BM (30°-60°)	1842.8	12.2	B2/2500		
BH (60°-80°)	1059.0	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: P233835

CATALOG NUMBER: VERD-G-C02-D-U-T2-8027

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	2758.8	2758.8	2758.8	2758.8	2758.8	2758.8	2758.8	2758.8	2758.8	2758.8	2758.8
2.5°	2928.7	2939.6	2927.3	2891.7	2873.9	2861.6	2824.6	2791.7	2765.7	2762.9	2738.3
5°	3041.0	3057.5	3036.9	2991.7	2973.9	2947.9	2906.8	2861.6	2815.0	2805.4	2756.1
7.5°	3183.5	3186.2	3175.3	3130.1	3093.1	3038.3	2967.0	2919.1	2865.7	2850.6	2772.5
10°	3304.0	3302.7	3289.0	3245.1	3208.1	3160.2	3060.2	2982.1	2919.1	2899.9	2791.7
12.5°	3419.1	3416.3	3402.6	3357.4	3310.9	3271.1	3195.8	3090.3	3005.4	2980.7	2846.5
15°	3561.5	3554.7	3532.8	3472.5	3435.5	3389.0	3334.2	3228.7	3131.4	3097.2	2925.9
17.5°	3671.1	3669.8	3653.3	3602.6	3558.8	3508.1	3457.4	3375.3	3269.8	3231.4	3004.0
20°	3734.1	3728.7	3724.6	3684.8	3673.9	3646.5	3573.9	3510.9	3405.4	3365.7	3091.7
22.5°	3801.3	3802.6	3804.0	3783.5	3815.0	3791.7	3738.3	3661.5	3554.7	3509.5	3215.0
25°	3816.3	3819.1	3846.5	3891.7	3930.0	3972.5	3934.1	3858.8	3743.7	3695.8	3383.5
27.5°	3773.9	3784.8	3867.0	3943.7	4079.3	4134.1	4127.3	4123.2	4005.4	3957.4	3615.0
30°	3812.2	3812.2	3868.4	3999.9	4171.1	4315.0	4346.5	4434.1	4398.5	4364.3	4004.0
32.5°	3697.2	3717.7	3817.7	4001.3	4272.5	4482.1	4624.5	4868.4	5009.5	4980.7	4554.7
35°	3480.7	3508.1	3654.7	3935.5	4323.2	4679.3	4934.1	5404.0	5676.6	5710.8	5217.7
37.5°	3313.6	3336.9	3520.5	3832.8	4342.3	4864.3	5291.6	6006.7	6358.7	6340.9	5779.3
40°	3109.5	3150.6	3335.5	3710.9	4297.1	5021.8	5679.3	6560.1	6993.0	6910.8	6313.5
42.5°	2925.9	2961.6	3116.4	3516.3	4234.1	5110.8	6030.0	7129.9	7509.4	7443.6	6819.0
45°	2731.4	2762.9	2906.8	3283.5	4087.6	5154.7	6358.7	7675.1	8005.3	7931.3	7287.5
47.5°	2508.2	2550.6	2721.8	3064.3	3872.5	5127.3	6598.5	8149.1	8476.5	8421.7	7675.1
50°	1945.2	1989.0	2436.9	2858.8	3573.9	5013.6	6813.5	8623.1	8902.5	8850.4	8017.6
52.5°	1765.7	1784.9	1924.6	2623.2	3262.9	4788.9	6947.8	9013.5	9317.6	9265.5	8340.9
55°	1656.1	1669.8	1747.9	2142.4	2998.6	4427.3	6964.2	9418.9	9666.9	9598.4	8684.7
57.5°	1543.8	1558.9	1645.2	1847.9	2732.8	3861.5	6790.2	9762.8	9950.4	9876.4	9013.5
60°	1449.3	1457.5	1542.4	1682.1	2432.8	3299.9	6342.3	9997.0	10212.1	10116.2	9335.4
62.5°	1363.0	1373.9	1435.6	1563.0	2180.8	2879.4	5717.7	9998.4	10355.9	10297.0	9498.4
65°	1250.7	1267.1	1327.4	1442.4	1976.7	2591.7	5071.1	9824.4	10381.9	10294.2	9490.2
67.5°	1120.5	1141.1	1195.9	1287.6	1705.4	2284.9	4169.8	9595.6	9873.7	9858.6	9098.4
70°	990.4	990.4	1052.0	1126.0	1415.0	1956.1	3294.4	8780.6	9098.4	9121.7	8395.7
72.5°	835.6	838.3	886.3	950.7	1139.7	1605.4	2399.9	7506.6	8482.0	8199.8	7572.4
75°	701.4	698.6	747.9	801.3	927.4	1264.3	1565.7	5514.9	7751.8	7814.9	6664.2
77.5°	372.6	358.9	421.9	464.4	543.8	702.7	868.5	2765.7	5613.5	5736.8	5335.5
80°	105.5	106.8	279.4	312.3	357.5	347.9	402.7	1054.8	2220.5	2502.7	3110.9
82.5°	63.0	72.6	158.9	186.3	139.7	90.4	153.4	586.3	1149.3	1287.6	1543.8
85°	32.9	35.6	56.2	69.9	53.4	45.2	46.6	246.6	558.9	568.5	616.4
87.5°	15.1	15.1	20.5	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: P233835

CATALOG NUMBER: VERD-G-C02-D-U-T2-8027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2758.8	2758.8	2758.8	2758.8	2758.8	2758.8	2758.8	2758.8	2758.8	2758.8	2758.8
2.5°	2719.1	2732.8	2709.5	2691.7	2678.0	2669.8	2660.2	2636.9	2643.8	2653.4	2652.0
5°	2732.8	2739.7	2698.6	2642.4	2590.3	2553.4	2528.7	2491.7	2491.7	2506.8	2506.8
7.5°	2745.1	2735.5	2652.0	2557.5	2498.6	2468.4	2428.7	2389.0	2382.1	2393.1	2394.5
10°	2752.0	2710.9	2594.5	2506.8	2430.1	2368.4	2317.7	2272.5	2271.2	2286.2	2289.0
12.5°	2782.1	2702.7	2590.3	2469.8	2354.7	2289.0	2228.7	2178.0	2160.2	2161.6	2164.3
15°	2828.7	2735.5	2584.9	2419.1	2294.5	2206.8	2119.1	2054.7	2038.3	2060.2	2068.4
17.5°	2884.9	2789.0	2558.8	2372.5	2220.5	2115.0	2027.3	1969.8	1917.8	1894.5	1890.4
20°	2958.8	2834.2	2572.5	2304.0	2149.3	2008.2	1898.6	1828.7	1784.9	1782.1	1779.4
22.5°	3056.1	2884.9	2575.3	2258.8	2036.9	1890.4	1754.7	1715.0	1636.9	1608.2	1620.5
25°	3184.8	2961.6	2568.4	2210.9	1950.6	1753.4	1590.4	1517.8	1489.0	1456.1	1458.9
27.5°	3350.6	3083.5	2586.2	2147.9	1809.5	1586.3	1404.1	1326.0	1282.2	1254.8	1258.9
30°	3687.6	3268.4	2584.9	2087.6	1679.4	1413.7	1208.2	1156.1	1112.3	1087.6	1100.0
32.5°	4167.0	3669.8	2642.4	2006.8	1531.5	1182.2	1043.8	984.9	947.9	920.5	927.4
35°	4760.1	4106.7	2790.3	1897.2	1363.0	1005.5	910.9	838.3	793.1	782.2	778.1
37.5°	5310.8	4493.0	2930.1	1824.6	1169.8	908.2	789.0	716.4	676.7	690.4	690.4
40°	5802.6	5005.3	3087.6	1708.2	994.5	797.2	653.4	620.5	600.0	623.3	631.5
42.5°	6173.8	5497.1	3301.3	1554.8	852.0	665.7	558.9	582.2	590.4	606.8	602.7
45°	6634.1	5777.9	3512.2	1412.3	727.4	554.8	539.7	587.7	606.8	621.9	615.1
47.5°	7057.3	5995.7	3469.8	1149.3	612.3	537.0	549.3	587.7	620.5	645.2	641.1
50°	7421.7	6268.3	3389.0	893.1	587.7	553.4	558.9	572.6	621.9	638.3	638.3
52.5°	7649.1	6538.2	3289.0	721.9	605.5	574.0	564.4	563.0	595.9	608.2	597.2
55°	7923.1	6817.6	3030.1	669.8	612.3	587.7	579.4	567.1	576.7	567.1	572.6
57.5°	8227.2	7093.0	2632.8	654.8	608.2	583.5	627.4	561.6	556.1	521.9	513.7
60°	8494.3	7201.2	2284.9	620.5	586.3	572.6	583.5	554.8	527.4	482.2	464.4
62.5°	8594.3	7191.6	1931.5	584.9	553.4	556.1	554.8	534.2	509.6	464.4	453.4
65°	8473.7	6972.4	1565.7	542.5	527.4	538.3	524.6	494.5	453.4	416.4	406.8
67.5°	8065.5	6413.5	1163.0	486.3	484.9	505.5	495.9	454.8	409.6	380.8	380.8
70°	7284.7	5725.9	753.4	404.1	434.2	469.9	469.9	426.0	367.1	342.5	349.3
72.5°	6430.0	4927.3	487.7	300.0	342.5	426.0	423.3	393.1	338.3	306.8	308.2
75°	5569.7	3909.5	315.1	206.8	221.9	363.0	375.3	320.5	263.0	224.7	217.8
77.5°	4234.1	2941.0	200.0	120.5	141.1	221.9	284.9	267.1	268.5	327.4	324.6
80°	2604.0	1772.6	145.2	58.9	69.9	145.2	230.1	254.8	357.5	235.6	216.4
82.5°	1304.1	828.7	76.7	35.6	39.7	64.4	137.0	305.5	260.3	156.2	147.9
85°	487.7	223.3	23.3	17.8	21.9	32.9	56.2	279.4	165.7	124.7	121.9
87.5°	2.7	4.1	4.1	5.5	8.2	9.6	20.5	132.9	83.6	60.3	57.5
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)