

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: P233477

Luminaire Tested: **VERD-C02H8-D-U-T2-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P233477  
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-C02H8-D-U-T2-7030  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 960mA LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13583 lumens  
Efficiency: N/A  
Efficacy: 123.5 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type II - Short - Non-Cutoff  
BUG Rating: B2 - U0 - G2

Input Watts (W): 110  
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

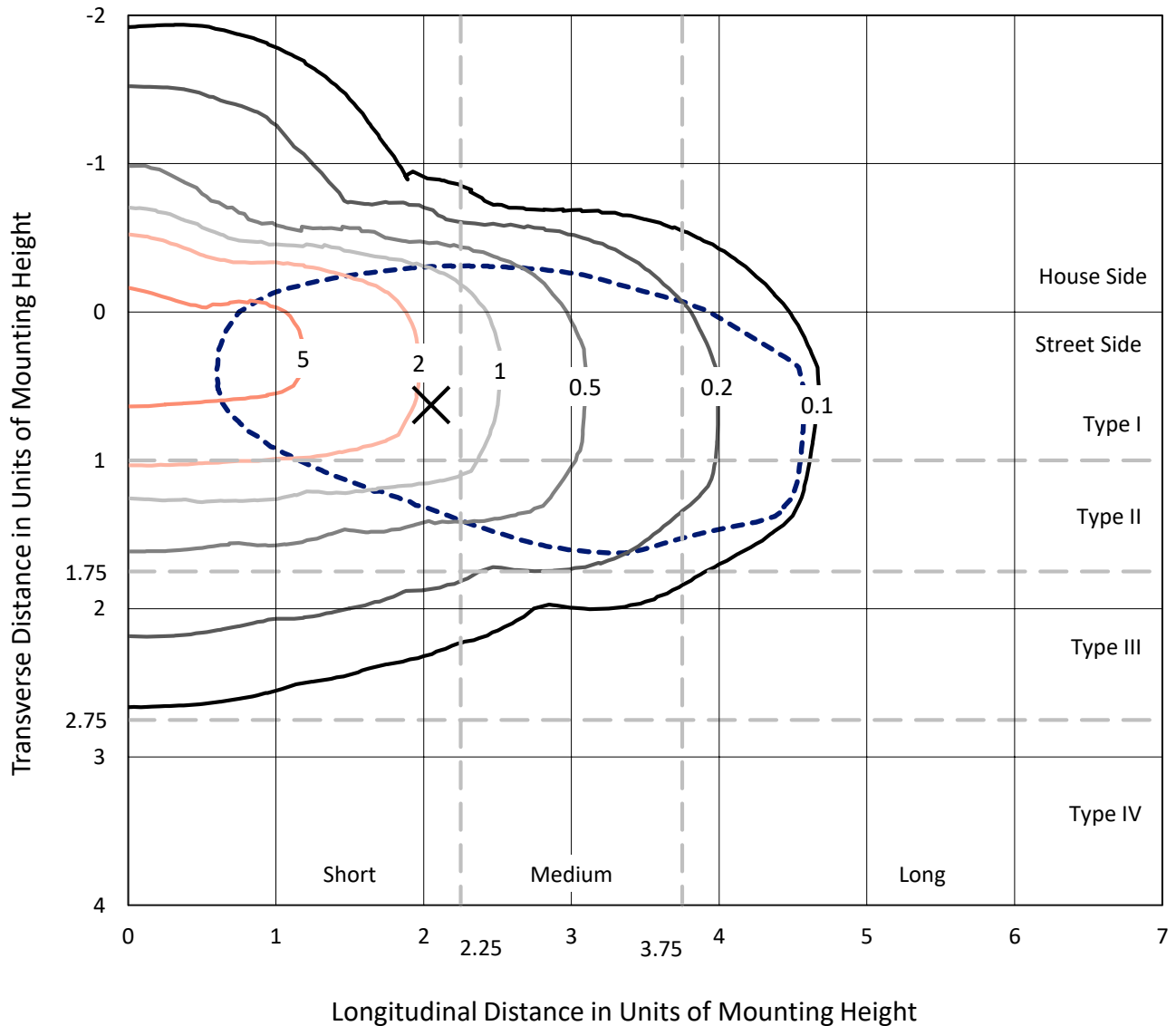


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

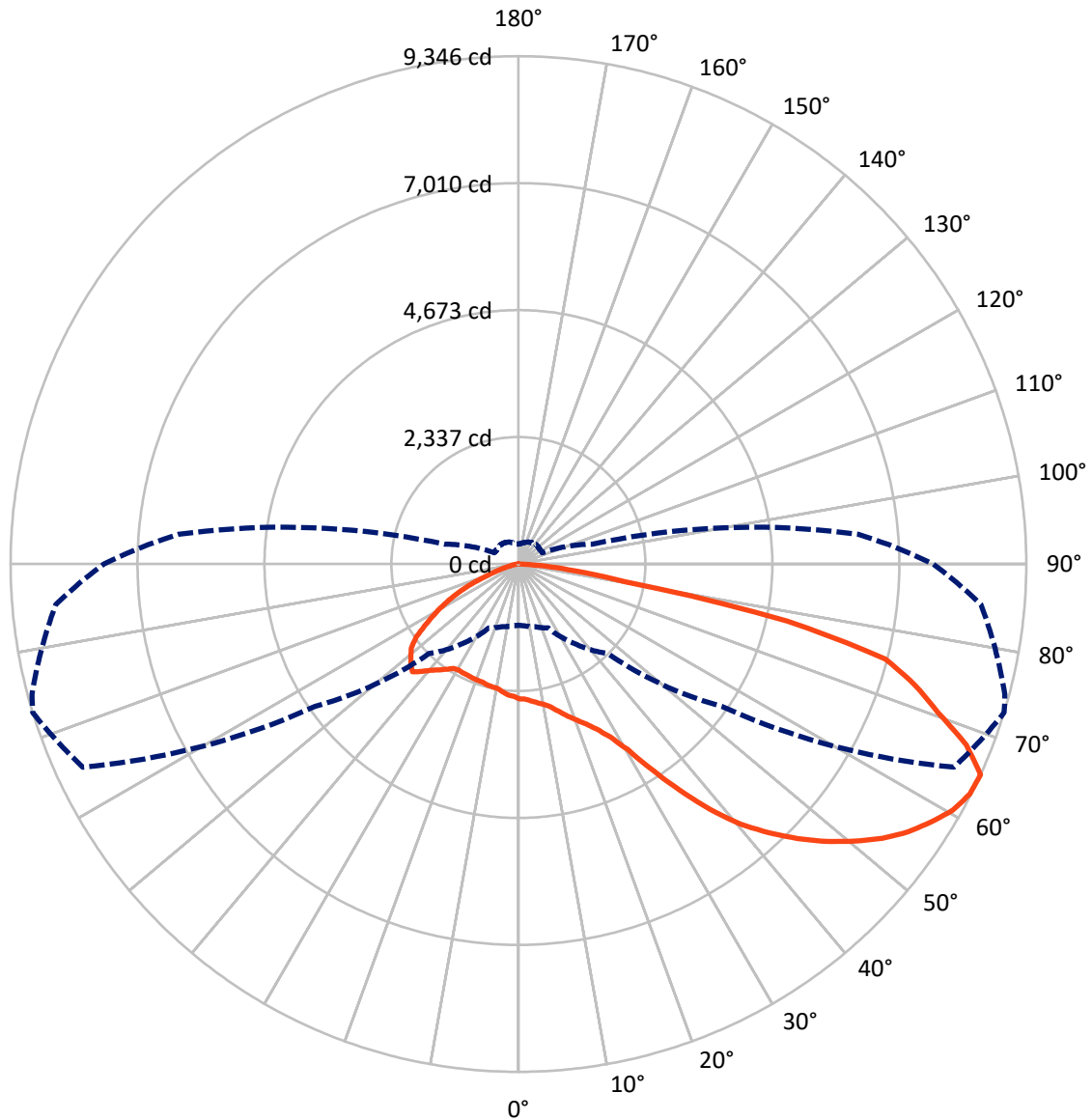


Based on 20 foot mounting height. Maximum calculated value = 7.2 fc  
 Type II - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3481.9	0.0	3481.9
	% Fixture	25.6	0.0	25.6
<b>Street Side</b>	Lumens	10101.1	0.0	10101.1
	% Fixture	74.4	0.0	74.4
<b>Total</b>	Lumens	13583.0	0.0	13583.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	237.0	1.7
10°-20°	716.6	5.3
20°-30°	1202.1	8.8
30°-40°	1762.8	13.0
40°-50°	2382.5	17.5
50°-60°	2759.9	20.3
60°-70°	2695.9	19.8
70°-80°	1618.9	11.9
80°-90°	207.3	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°	13583.0	100.0
0°-180°	13583.0	100.0



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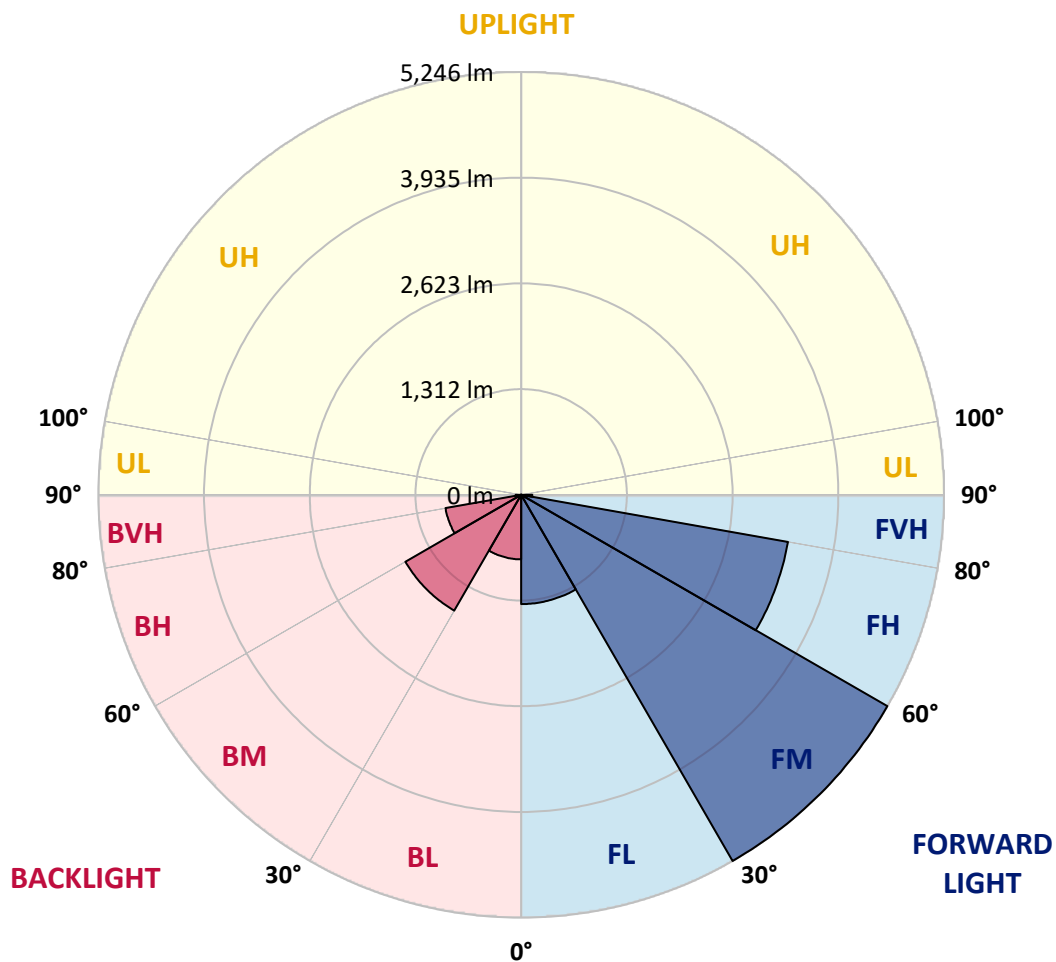
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1355.3	10.0			
FM (30°-60°)	5246.2	38.6			
FH (60°-80°)	3361.5	24.7			G2/5000
FVH (80°-90°)	138.1	1.0			G2/225
BL (0°-30°)	800.3	5.9	B2/1000		
BM (30°-60°)	1659.0	12.2	B2/2500		
BH (60°-80°)	953.3	7.0	B2/1000		G2/1000
BVH (80°-90°)	69.3	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	2483.6	2483.6	2483.6	2483.6	2483.6	2483.6	2483.6	2483.6	2483.6	2483.6	2483.6
2.5°	2636.6	2646.4	2635.3	2603.3	2587.2	2576.1	2542.8	2513.2	2489.8	2487.3	2465.1
5°	2737.7	2752.5	2734.0	2693.3	2677.3	2653.8	2616.8	2576.1	2534.2	2525.6	2481.2
7.5°	2865.9	2868.4	2858.5	2817.8	2784.5	2735.2	2671.1	2627.9	2579.8	2566.3	2496.0
10°	2974.5	2973.2	2960.9	2921.4	2888.1	2845.0	2754.9	2684.7	2627.9	2610.7	2513.2
12.5°	3078.0	3075.6	3063.2	3022.5	2980.6	2944.9	2877.0	2782.1	2705.6	2683.4	2562.6
15°	3206.3	3200.1	3180.4	3126.1	3092.8	3050.9	3001.6	2906.6	2819.1	2788.2	2634.1
17.5°	3304.9	3303.7	3288.9	3243.3	3203.8	3158.2	3112.6	3038.6	2943.6	2909.1	2704.4
20°	3361.7	3356.7	3353.0	3317.3	3307.4	3282.7	3217.4	3160.7	3065.7	3029.9	2783.3
22.5°	3422.1	3423.3	3424.6	3406.1	3434.4	3413.5	3365.4	3296.3	3200.1	3159.4	2894.3
25°	3435.7	3438.1	3462.8	3503.5	3538.0	3576.2	3541.7	3473.9	3370.3	3327.1	3046.0
27.5°	3397.4	3407.3	3481.3	3550.4	3672.4	3721.8	3715.6	3711.9	3605.8	3562.7	3254.4
30°	3432.0	3432.0	3482.5	3600.9	3755.1	3884.5	3912.9	3991.8	3959.8	3928.9	3604.6
32.5°	3328.4	3346.9	3436.9	3602.1	3846.3	4035.0	4163.2	4382.8	4509.8	4483.9	4100.4
35°	3133.5	3158.2	3290.1	3543.0	3891.9	4212.6	4441.9	4864.9	5110.3	5141.2	4697.2
37.5°	2983.1	3004.0	3169.3	3450.5	3909.2	4379.1	4763.8	5407.5	5724.5	5708.4	5202.8
40°	2799.3	2836.3	3002.8	3340.7	3868.5	4520.9	5112.8	5905.7	6295.4	6221.4	5683.8
42.5°	2634.1	2666.2	2805.5	3165.6	3811.8	4601.0	5428.5	6418.7	6760.3	6701.1	6138.8
45°	2459.0	2487.3	2616.8	2956.0	3679.8	4640.5	5724.5	6909.6	7206.8	7140.2	6560.6
47.5°	2258.0	2296.2	2450.3	2758.6	3486.2	4615.8	5940.3	7336.2	7631.0	7581.6	6909.6
50°	1751.1	1790.6	2193.8	2573.7	3217.4	4513.5	6133.9	7762.9	8014.5	7967.6	7217.9
52.5°	1589.6	1606.8	1732.6	2361.6	2937.5	4311.2	6254.7	8114.4	8388.2	8341.3	7508.9
55°	1490.9	1503.3	1573.5	1928.7	2699.5	3985.7	6269.5	8479.4	8702.6	8641.0	7818.4
57.5°	1389.8	1403.4	1481.1	1663.6	2460.2	3476.4	6112.9	8788.9	8957.9	8891.3	8114.4
60°	1304.7	1312.1	1388.6	1514.4	2190.1	2970.8	5709.7	8999.8	9193.4	9107.1	8404.2
62.5°	1227.0	1236.9	1292.4	1407.1	1963.2	2592.2	5147.3	9001.0	9322.9	9269.9	8550.9
65°	1125.9	1140.7	1195.0	1298.5	1779.5	2333.2	4565.3	8844.4	9346.3	9267.4	8543.5
67.5°	1008.7	1027.2	1076.6	1159.2	1535.3	2057.0	3753.8	8638.5	8888.8	8875.3	8190.8
70°	891.6	891.6	947.1	1013.7	1273.9	1761.0	2965.8	7904.7	8190.8	8211.8	7558.2
72.5°	752.2	754.7	797.9	855.8	1026.0	1445.3	2160.5	6757.9	7635.9	7381.9	6817.1
75°	631.4	628.9	673.3	721.4	834.9	1138.2	1409.5	4964.8	6978.6	7035.3	5999.5
77.5°	335.4	323.1	379.8	418.1	489.6	632.6	781.8	2489.8	5053.6	5164.6	4803.3
80°	95.0	96.2	251.6	281.2	321.9	313.2	362.6	949.6	1999.0	2253.0	2800.6
82.5°	56.7	65.4	143.0	167.7	125.8	81.4	138.1	527.8	1034.6	1159.2	1389.8
85°	29.6	32.1	50.6	62.9	48.1	40.7	41.9	222.0	503.1	511.8	554.9
87.5°	13.6	13.6	18.5	19.7	12.3	7.4	4.9	3.7	3.7	2.5	2.5
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°	2483.6	2483.6	2483.6	2483.6	2483.6	2483.6	2483.6	2483.6	2483.6	2483.6	2483.6
2.5°	2447.9	2460.2	2439.2	2423.2	2410.9	2403.5	2394.9	2373.9	2380.1	2388.7	2387.5
5°	2460.2	2466.4	2429.4	2378.8	2332.0	2298.7	2276.5	2243.2	2243.2	2256.7	2256.7
7.5°	2471.3	2462.7	2387.5	2302.4	2249.3	2222.2	2186.4	2150.7	2144.5	2154.4	2155.6
10°	2477.5	2440.5	2335.7	2256.7	2187.7	2132.2	2086.6	2045.9	2044.6	2058.2	2060.7
12.5°	2504.6	2433.1	2332.0	2223.4	2119.9	2060.7	2006.4	1960.8	1944.7	1946.0	1948.4
15°	2546.5	2462.7	2327.0	2177.8	2065.6	1986.7	1907.7	1849.8	1835.0	1854.7	1862.1
17.5°	2597.1	2510.8	2303.6	2135.9	1999.0	1904.0	1825.1	1773.3	1726.5	1705.5	1701.8
20°	2663.7	2551.5	2315.9	2074.2	1934.9	1807.9	1709.2	1646.3	1606.8	1604.4	1601.9
22.5°	2751.2	2597.1	2318.4	2033.5	1833.8	1701.8	1579.7	1544.0	1473.7	1447.8	1458.9
25°	2867.2	2666.2	2312.2	1990.4	1756.1	1578.5	1431.7	1366.4	1340.5	1310.9	1313.3
27.5°	3016.4	2775.9	2328.3	1933.6	1629.0	1428.0	1264.0	1193.7	1154.3	1129.6	1133.3
30°	3319.7	2942.4	2327.0	1879.4	1511.9	1272.7	1087.7	1040.8	1001.3	979.2	990.3
32.5°	3751.4	3303.7	2378.8	1806.6	1378.7	1064.2	939.7	886.7	853.4	828.7	834.9
35°	4285.3	3697.1	2512.0	1708.0	1227.0	905.2	820.1	754.7	714.0	704.2	700.5
37.5°	4781.1	4044.9	2637.8	1642.6	1053.1	817.6	710.3	645.0	609.2	621.5	621.5
40°	5223.8	4506.1	2779.6	1537.8	895.3	717.7	588.2	558.6	540.1	561.1	568.5
42.5°	5558.0	4948.8	2972.0	1399.7	767.0	599.3	503.1	524.1	531.5	546.3	542.6
45°	5972.3	5201.6	3161.9	1271.4	654.8	499.4	485.9	529.0	546.3	559.9	553.7
47.5°	6353.4	5397.7	3123.7	1034.6	551.2	483.4	494.5	529.0	558.6	580.8	577.1
50°	6681.4	5643.1	3050.9	804.0	529.0	498.2	503.1	515.5	559.9	574.7	574.7
52.5°	6886.1	5886.0	2960.9	649.9	545.1	516.7	508.1	506.8	536.4	547.5	537.7
55°	7132.8	6137.6	2727.8	603.0	551.2	529.0	521.6	510.5	519.2	510.5	515.5
57.5°	7406.5	6385.5	2370.2	589.5	547.5	525.3	564.8	505.6	500.7	469.8	462.4
60°	7647.0	6482.9	2057.0	558.6	527.8	515.5	525.3	499.4	474.8	434.1	418.1
62.5°	7737.0	6474.2	1738.8	526.6	498.2	500.7	499.4	480.9	458.7	418.1	408.2
65°	7628.5	6276.9	1409.5	488.3	474.8	484.6	472.3	445.2	408.2	374.9	366.3
67.5°	7261.0	5773.8	1047.0	437.8	436.5	455.0	446.4	409.4	368.7	342.8	342.8
70°	6558.1	5154.7	678.3	363.8	390.9	423.0	423.0	383.5	330.5	308.3	314.5
72.5°	5788.6	4435.8	439.0	270.1	308.3	383.5	381.1	353.9	304.6	276.2	277.5
75°	5014.1	3519.5	283.6	186.2	199.8	326.8	337.9	288.6	236.8	202.2	196.1
77.5°	3811.8	2647.7	180.0	108.5	127.0	199.8	256.5	240.5	241.7	294.7	292.3
80°	2344.3	1595.7	130.7	53.0	62.9	130.7	207.2	229.4	321.9	212.1	194.8
82.5°	1174.0	746.1	69.1	32.1	35.8	58.0	123.3	275.0	234.3	140.6	133.2
85°	439.0	201.0	21.0	16.0	19.7	29.6	50.6	251.6	149.2	112.2	109.8
87.5°	2.5	3.7	3.7	4.9	7.4	8.6	18.5	119.6	75.2	54.3	51.8
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)