

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: P233852

Luminaire Tested: **VERD-G-C02H-D-U-T3-8027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P233852  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-14)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-G-C02H-D-U-T3-8027  
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE  
(2) 80 CRI, 2700K, 1370mA LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16814 lumens  
Efficiency: N/A  
Efficacy: 108.5 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type III - Medium - Semi-Cutoff  
BUG Rating: B3 - U0 - G2

Input Watts (W): 155  
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

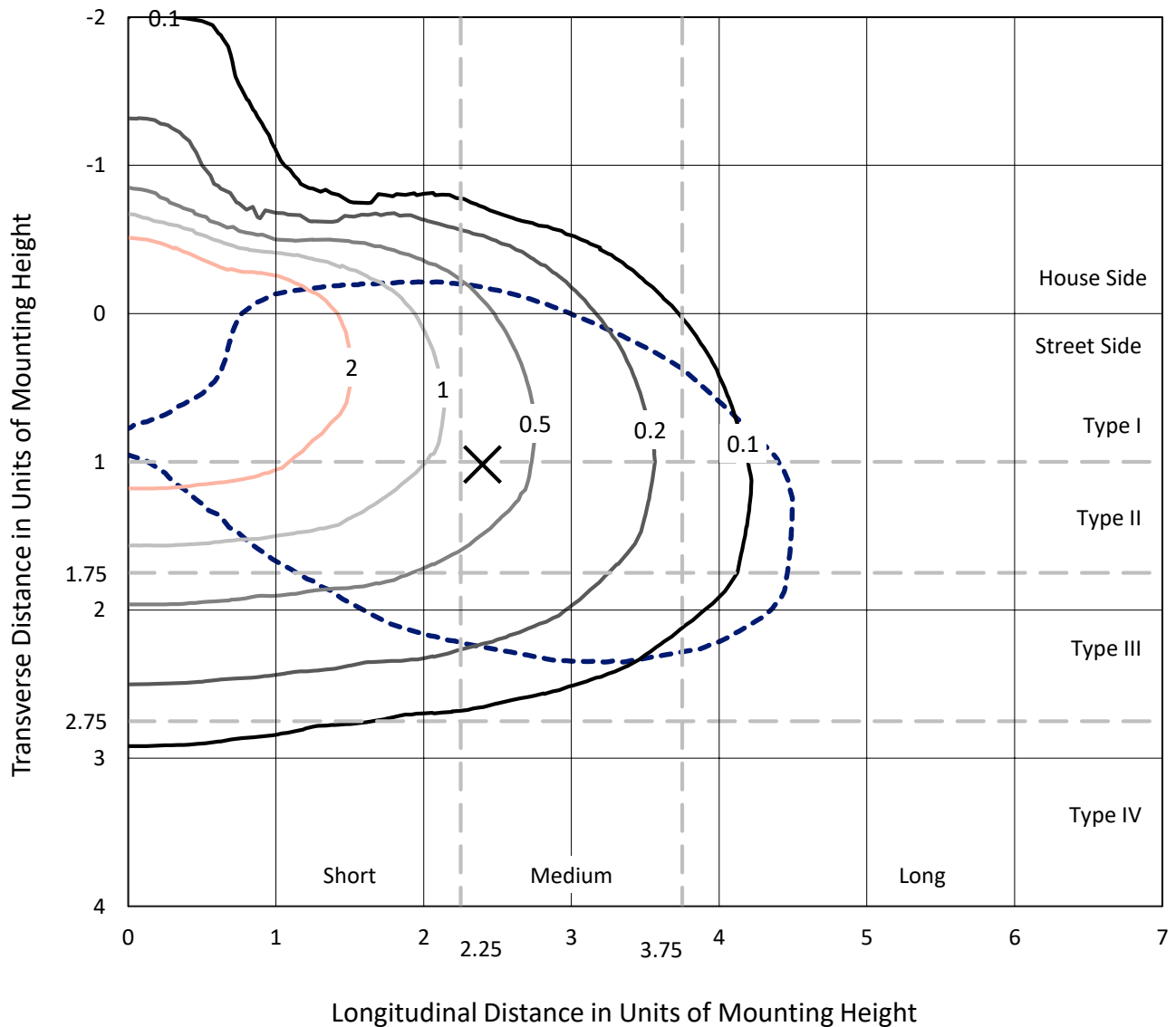


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

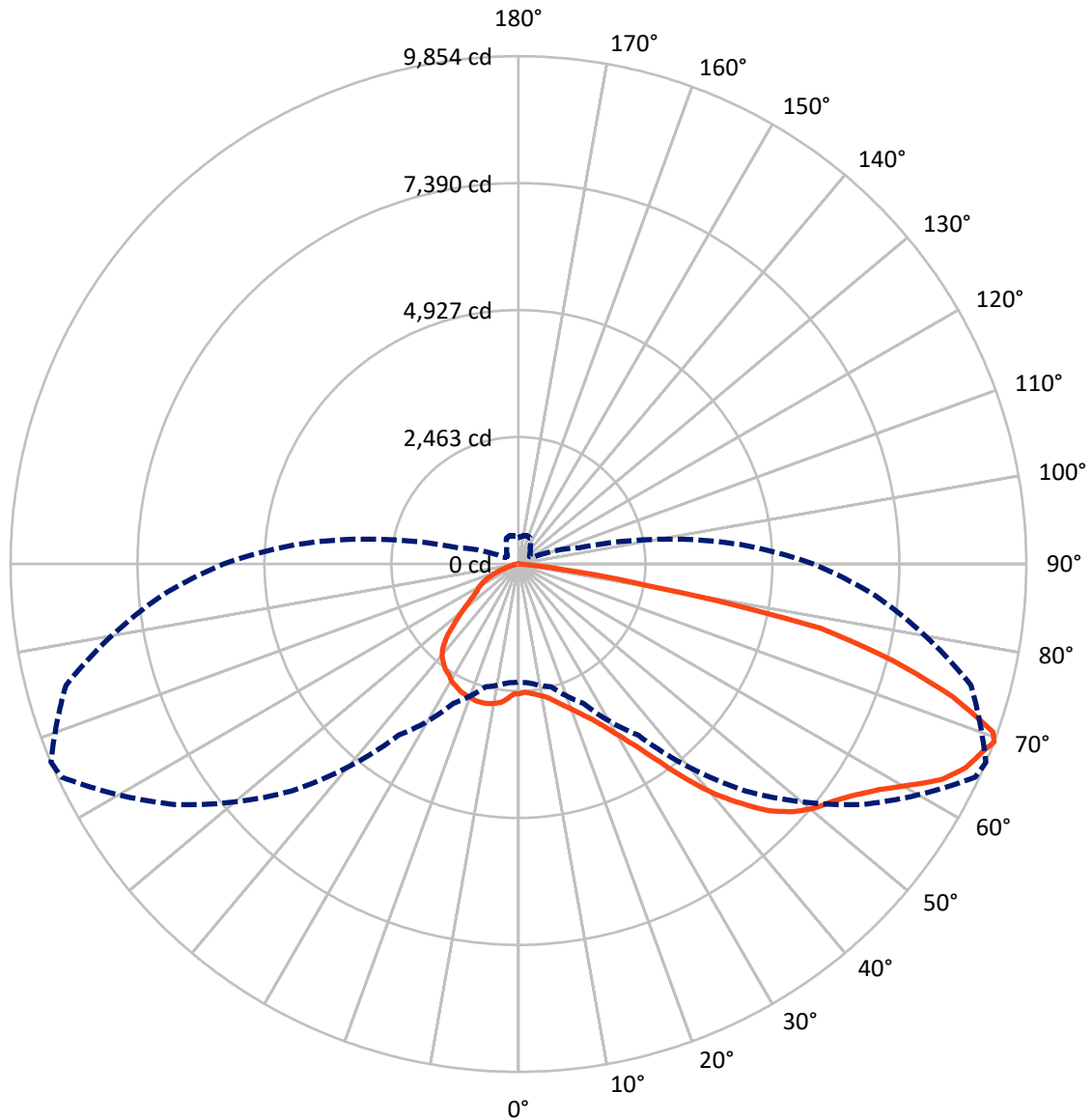


Based on 25 foot mounting height. Maximum calculated value = 4.7 fc  
 Type III - Medium - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3786.3	0.0	3786.3
	% Fixture	22.5	0.0	22.5
<b>Street Side</b>	Lumens	13027.7	0.0	13027.7
	% Fixture	77.5	0.0	77.5
<b>Total</b>	Lumens	16814.0	0.0	16814.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	254.7	1.5
10°-20°	811.8	4.8
20°-30°	1398.6	8.3
30°-40°	2080.2	12.4
40°-50°	2864.9	17.0
50°-60°	3424.8	20.4
60°-70°	3614.1	21.5
70°-80°	2165.8	12.9
80°-90°	199.2	1.2
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°	16814.0	100.0
0°-180°	16814.0	100.0



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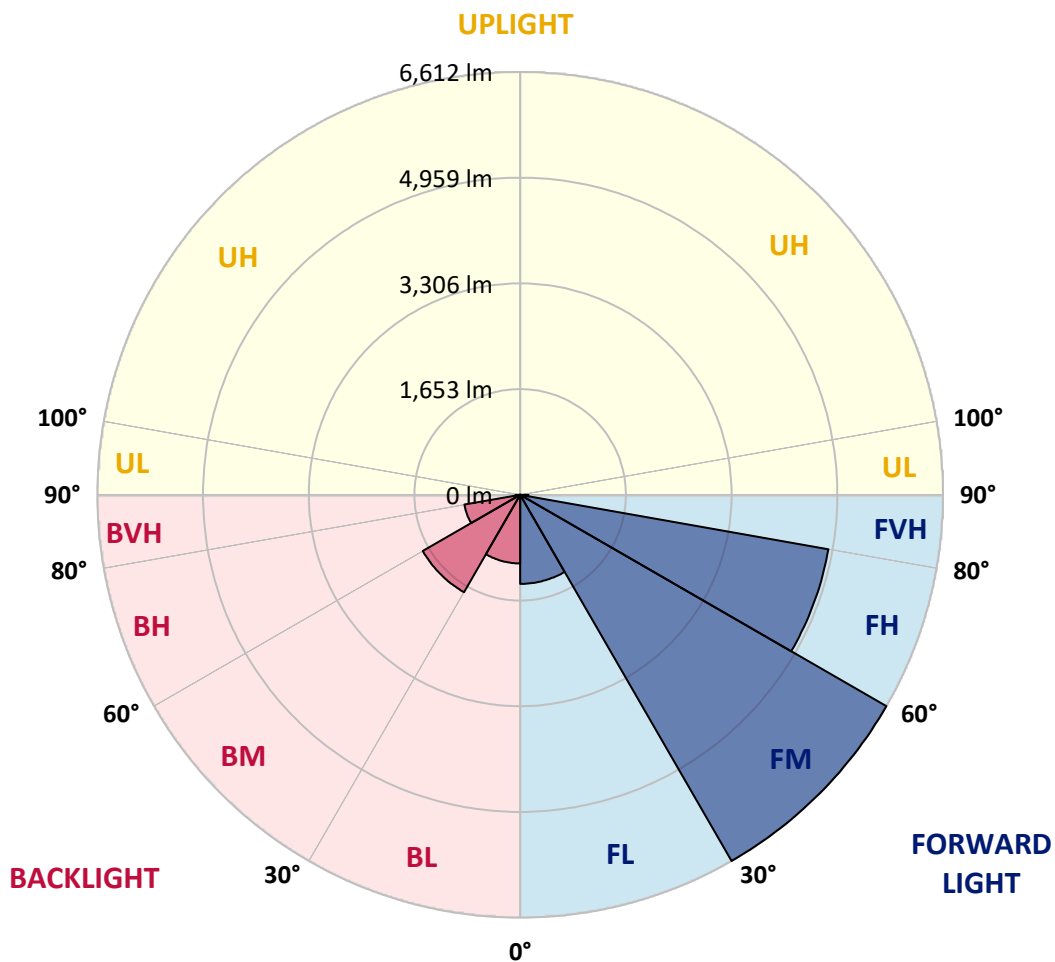
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1392.3	8.3			
FM	(30°-60°)	6612.0	39.3			
FH	(60°-80°)	4894.6	29.1			G2/5000
FVH	(80°-90°)	128.8	0.8			G2/225
BL	(0°-30°)	1072.9	6.4	B3/2500		
BM	(30°-60°)	1757.8	10.5	B2/2500		
BH	(60°-80°)	885.3	5.3	B2/1000		G2/1000
BVH	(80°-90°)	70.4	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2515.0	2515.0	2515.0	2515.0	2515.0	2515.0	2515.0	2515.0	2515.0	2515.0	2515.0
2.5°	2556.3	2554.8	2547.1	2519.6	2516.6	2513.5	2495.2	2496.7	2492.1	2496.7	2498.2
5°	2626.6	2620.5	2612.9	2583.8	2573.1	2559.4	2531.8	2530.3	2519.6	2522.7	2525.7
7.5°	2713.8	2707.7	2701.6	2667.9	2657.2	2632.8	2589.9	2568.5	2559.4	2562.4	2567.0
10°	2831.5	2820.8	2811.6	2762.7	2745.9	2704.6	2652.6	2615.9	2603.7	2608.3	2620.5
12.5°	2966.1	2952.3	2937.0	2886.5	2863.6	2799.4	2738.2	2690.9	2672.5	2683.2	2692.4
15°	3105.2	3097.5	3091.4	3031.8	2999.7	2929.4	2852.9	2793.3	2776.5	2785.6	2790.2
17.5°	3288.6	3284.1	3273.4	3212.2	3151.0	3070.0	2970.6	2908.0	2891.1	2895.7	2885.0
20°	3488.9	3476.7	3470.6	3401.8	3337.6	3226.0	3111.3	3022.6	3018.0	3019.6	2985.9
22.5°	3713.7	3699.9	3687.7	3625.0	3545.5	3415.5	3265.7	3166.3	3169.4	3172.5	3097.5
25°	3943.0	3932.3	3921.6	3862.0	3782.5	3640.3	3459.9	3348.3	3346.7	3348.3	3244.3
27.5°	4183.0	4170.8	4169.3	4120.4	4040.9	3895.6	3687.7	3574.6	3574.6	3568.4	3411.0
30°	4397.1	4409.3	4409.3	4381.8	4306.9	4161.6	3965.9	3852.8	3868.1	3855.9	3655.6
32.5°	4631.0	4628.0	4649.4	4628.0	4566.8	4432.3	4268.7	4196.8	4222.8	4262.6	4062.3
35°	4767.1	4788.5	4842.0	4872.6	4843.5	4733.5	4614.2	4669.2	4704.4	4883.3	4643.2
37.5°	4924.6	4942.9	5016.3	5091.2	5103.4	5043.8	5043.8	5224.2	5293.0	5526.9	5247.2
40°	5033.1	5051.5	5131.0	5218.1	5337.4	5378.6	5485.7	5765.5	5863.3	6020.8	5696.7
42.5°	4968.9	4978.1	5149.3	5361.8	5537.6	5736.4	5906.1	6260.8	6354.1	6464.2	6066.6
45°	4855.8	4872.6	5062.2	5404.6	5707.4	6101.8	6315.9	6727.1	6834.1	6823.4	6351.0
47.5°	4730.4	4756.4	4967.4	5349.6	5852.6	6418.3	6690.4	7118.5	7179.7	7103.2	6548.2
50°	4591.3	4635.6	4860.3	5294.6	5958.1	6695.0	6968.7	7412.1	7444.2	7288.2	6721.0
52.5°	4432.3	4461.3	4710.5	5189.1	6031.5	6878.5	7190.4	7630.7	7644.5	7517.6	6902.9
55°	4212.1	4238.1	4514.8	5048.4	6042.2	6987.0	7332.6	7864.6	7910.5	7786.6	7068.1
57.5°	3975.1	4007.2	4291.6	4845.1	5944.3	7031.4	7503.8	8165.8	8254.5	8077.1	7201.1
60°	3699.9	3741.2	4028.6	4597.4	5751.7	7100.2	7823.3	8604.6	8714.7	8405.9	7328.0
62.5°	3414.0	3436.9	3701.4	4254.9	5452.0	7135.3	8113.8	9106.1	9211.6	8716.2	7387.6
65°	3011.9	3048.6	3284.1	3843.6	5030.1	6984.0	8249.9	9456.2	9532.6	8968.5	7329.5
67.5°	2585.4	2585.4	2785.6	3351.3	4467.4	6583.4	8194.9	9624.4	9716.1	9145.8	7146.0
69°	2290.3	2313.2	2466.1	2981.3	4054.6	6227.2	8135.2	9778.8	9853.7	9089.3	6935.1
70°	2064.0	2083.9	2238.3	2712.3	3747.3	5945.9	8006.8	9710.0	9765.0	8915.0	6713.4
72.5°	1518.2	1535.0	1642.0	1889.7	2817.7	4797.7	7219.4	8778.9	8812.5	8017.5	5922.9
75°	1035.1	1044.2	1125.3	1276.6	1643.6	3354.4	5898.5	7415.1	7514.5	6953.4	4849.6
77.5°	357.8	385.3	434.2	587.1	703.3	1317.9	3998.1	5843.4	5991.7	5384.8	3392.6
80°	122.3	120.8	232.4	301.2	370.0	605.4	1264.4	2449.3	2588.4	2220.0	1221.6
82.5°	91.7	94.8	154.4	166.6	113.1	223.2	492.3	749.2	821.0	717.1	506.1
85°	58.1	56.6	68.8	71.9	52.0	94.8	119.3	120.8	125.4	108.6	110.1
87.5°	32.1	32.1	30.6	26.0	13.8	12.2	10.7	10.7	9.2	9.2	9.2
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°	2515.0	2515.0	2515.0	2515.0	2515.0	2515.0	2515.0	2515.0	2515.0	2515.0	2515.0
2.5°	2490.6	2512.0	2516.6	2522.7	2538.0	2557.8	2585.4	2585.4	2596.1	2628.2	2638.9
5°	2525.7	2551.7	2585.4	2620.5	2661.8	2706.1	2750.5	2765.8	2787.2	2830.0	2839.2
7.5°	2579.2	2608.3	2666.4	2713.8	2748.9	2793.3	2830.0	2836.1	2863.6	2903.4	2911.0
10°	2634.3	2660.3	2718.4	2742.8	2790.2	2839.2	2857.5	2866.7	2889.6	2920.2	2915.6
12.5°	2709.2	2716.8	2758.1	2774.9	2797.9	2828.5	2837.6	2837.6	2851.4	2900.3	2901.8
15°	2782.6	2782.6	2788.7	2779.5	2782.6	2797.9	2799.4	2779.5	2794.8	2819.3	2810.1
17.5°	2860.6	2839.2	2811.6	2771.9	2736.7	2735.2	2703.1	2655.7	2641.9	2677.1	2675.6
20°	2933.9	2897.3	2831.5	2741.3	2692.4	2626.6	2545.6	2518.1	2516.6	2522.7	2518.1
22.5°	3030.3	2955.3	2836.1	2712.3	2577.7	2473.7	2406.5	2313.2	2310.2	2296.4	2275.0
25°	3144.9	3037.9	2856.0	2680.1	2484.5	2349.9	2187.8	2088.5	2031.9	2044.1	2007.4
27.5°	3293.2	3163.3	2863.6	2609.8	2356.0	2128.2	1932.5	1804.1	1755.2	1733.8	1709.3
30°	3496.6	3296.3	2918.7	2550.2	2197.0	1895.8	1655.8	1469.3	1398.9	1417.3	1420.3
32.5°	3822.2	3548.6	2947.7	2432.5	2013.6	1642.0	1330.1	1128.3	1087.0	1139.0	1152.8
35°	4389.4	3940.0	3016.5	2362.1	1804.1	1345.4	989.2	906.6	915.8	960.1	963.2
37.5°	4947.5	4435.3	3229.0	2209.2	1553.4	996.8	767.5	723.2	767.5	824.1	831.7
40°	5338.9	4822.1	3417.1	2057.9	1201.7	721.6	585.6	532.1	596.3	686.5	703.3
42.5°	5686.0	5129.4	3550.1	1848.4	822.5	515.2	420.4	434.2	529.0	594.7	610.0
45°	5935.2	5340.4	3641.8	1576.3	524.4	389.9	376.1	420.4	510.7	562.6	567.2
47.5°	6092.6	5464.3	3574.6	1241.5	394.5	368.5	370.0	426.6	516.8	574.9	573.3
50°	6234.8	5530.0	3355.9	984.6	374.6	353.2	377.6	443.4	536.6	590.2	587.1
52.5°	6386.2	5594.2	3089.9	772.1	359.3	345.5	386.8	454.1	536.6	570.3	565.7
55°	6516.1	5650.8	2889.6	620.7	348.6	344.0	396.0	470.9	533.6	547.3	538.2
57.5°	6583.4	5554.5	2672.5	521.4	337.9	344.0	402.1	467.8	551.9	596.3	587.1
60°	6546.7	5464.3	2496.7	484.7	322.6	342.5	405.2	501.5	677.3	718.6	715.5
62.5°	6479.4	5364.9	2250.5	435.7	305.8	345.5	403.6	532.1	779.7	766.0	727.8
65°	6341.8	5166.1	1914.2	379.2	289.0	351.6	403.6	599.3	680.4	665.1	648.3
67.5°	6048.3	4736.5	1532.0	325.7	270.6	333.3	397.5	570.3	585.6	545.8	525.9
69°	5719.6	4326.8	1212.4	296.6	259.9	324.1	396.0	550.4	576.4	533.6	510.7
70°	5462.7	4007.2	980.0	275.2	249.2	321.1	394.5	536.6	571.8	524.4	499.9
72.5°	4550.0	3238.2	513.7	221.7	212.5	292.0	380.7	524.4	573.3	503.0	467.8
75°	3574.6	2304.0	340.9	169.7	163.6	255.3	348.6	504.5	539.7	452.6	399.0
77.5°	2204.7	1009.1	235.4	117.7	119.3	198.8	299.7	451.0	544.3	457.1	388.3
80°	640.6	389.9	149.8	79.5	73.4	117.7	235.4	388.3	516.8	469.4	423.5
82.5°	370.0	253.8	100.9	50.5	44.3	53.5	148.3	301.2	455.6	429.6	438.8
85°	84.1	70.3	36.7	24.5	24.5	30.6	50.5	174.3	315.0	368.5	415.9
87.5°	9.2	9.2	9.2	9.2	9.2	7.6	9.2	47.4	137.6	195.7	227.8
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)