

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: P509614

Luminaire Tested: **VERD-G-CA2-130-750-U-T3-HSS**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509614  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/6/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-G-CA2-130-750-U-T3-HSS  
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 5000K, 1200mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17647 lumens  
Efficiency: N/A  
Efficacy: 131.8 lumens/watt  
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

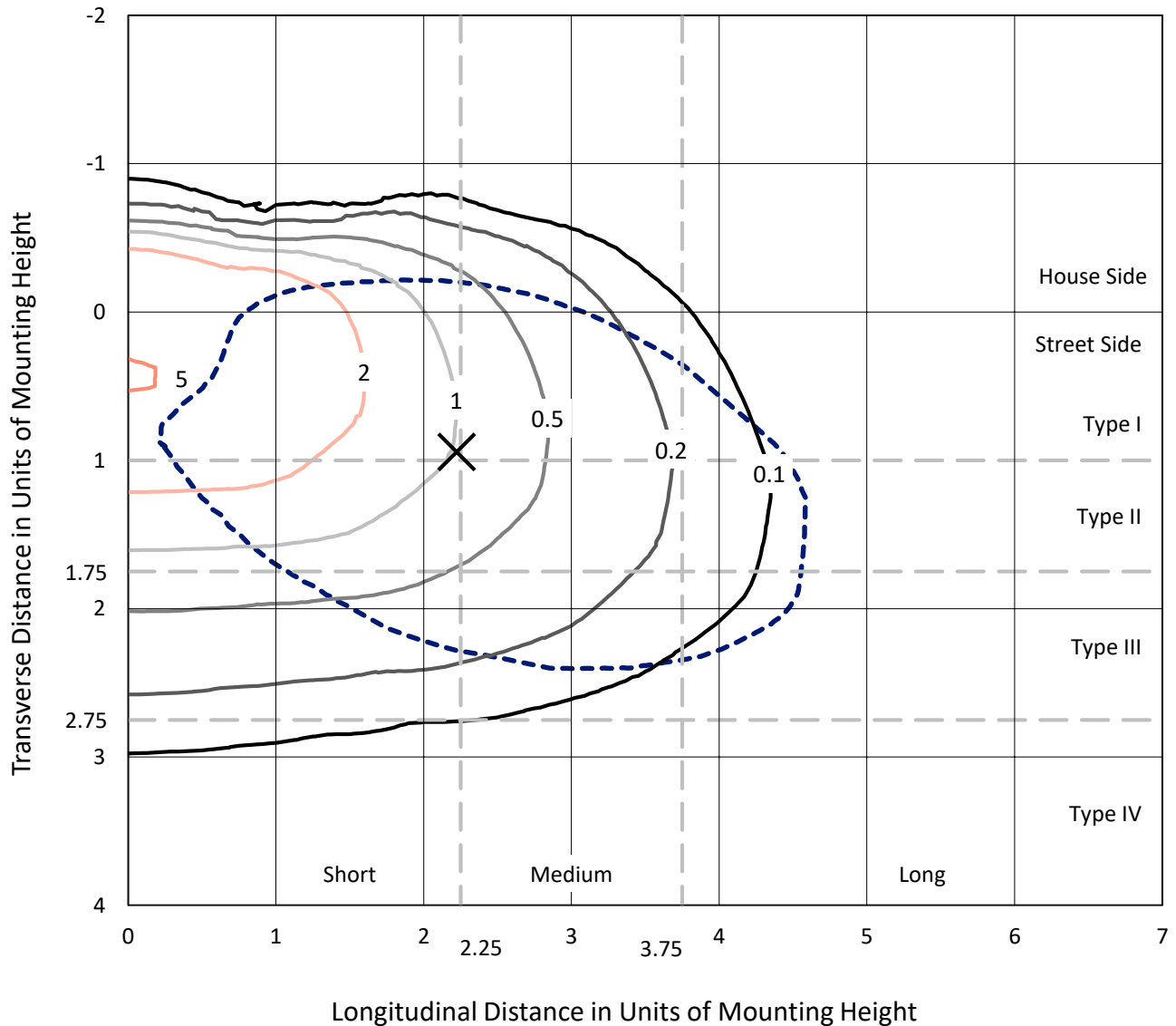
Input Watts (W): 133.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

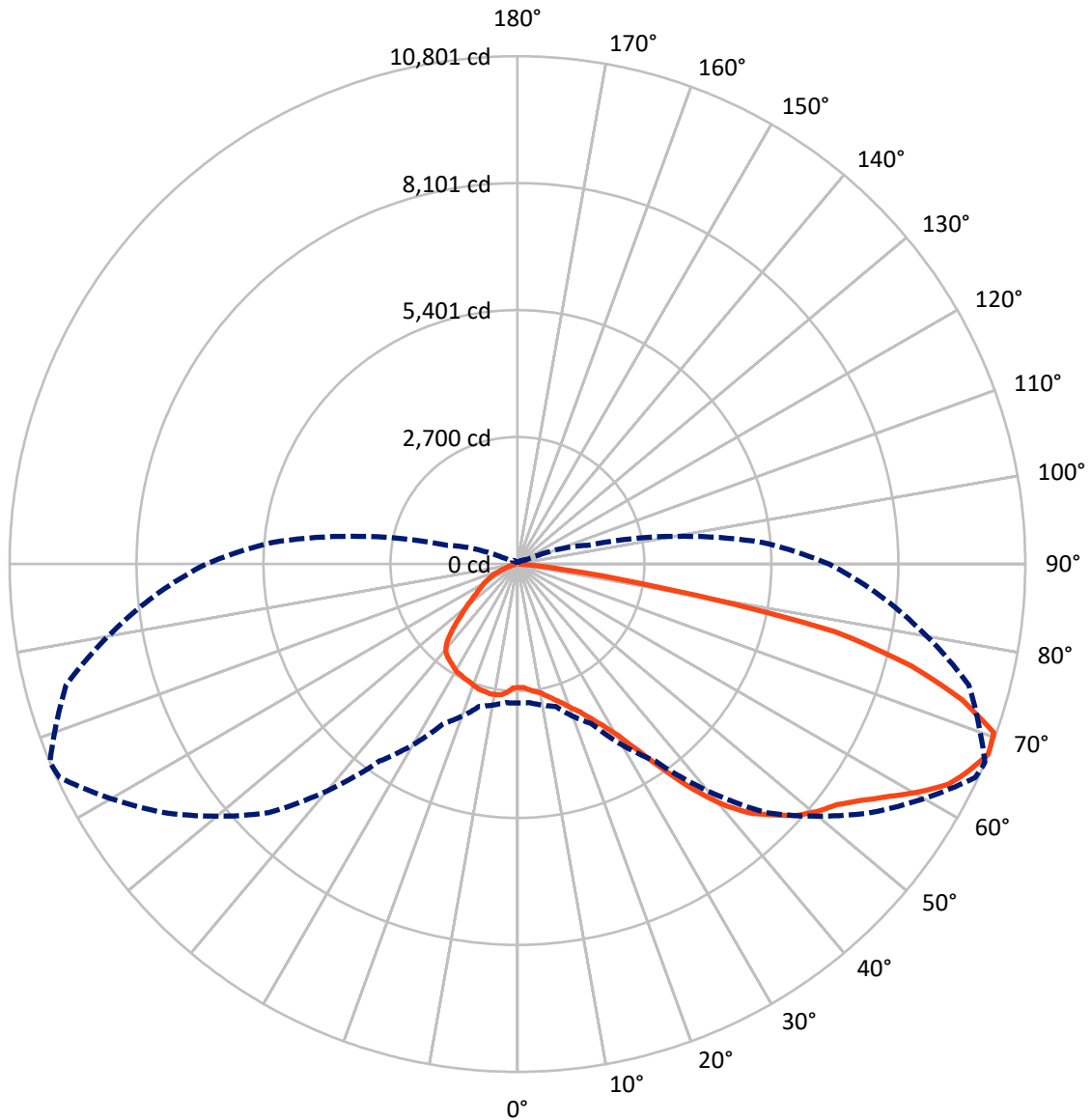
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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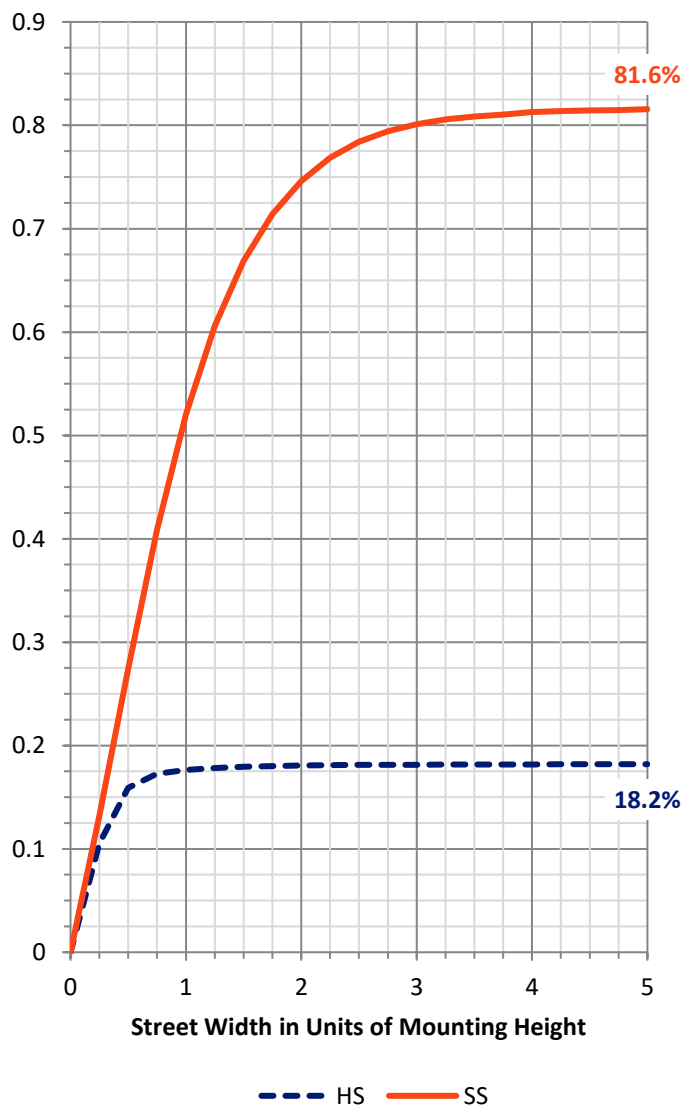
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3248.1	0.0	3248.1
	% Fixture	18.4	0.0	18.4
<b>Street Side</b>	Lumens	14398.9	0.0	14398.9
	% Fixture	81.6	0.0	81.6
<b>Total</b>	Lumens	17647.0	0.0	17647.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	264.2	1.5
10°-20°	826.0	4.7
20°-30°	1408.3	8.0
30°-40°	2147.9	12.2
40°-50°	3028.0	17.2
50°-60°	3660.0	20.7
60°-70°	3854.7	21.8
70°-80°	2293.0	13.0
80°-90°	164.8	0.9
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°	17647.0	100.0
0°-180°	17647.0	100.0

**Coefficient of Utilization**



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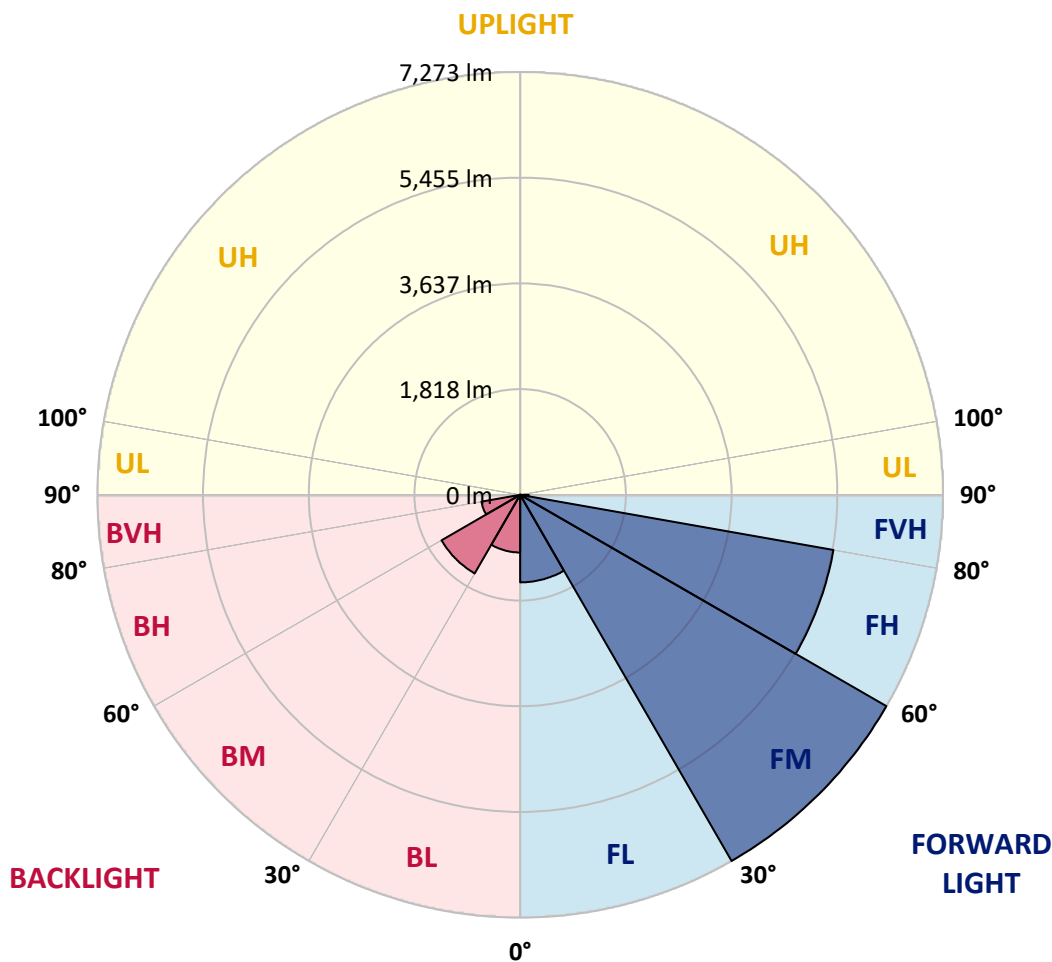
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1506.6	8.5			
FM (30°-60°)	7273.3	41.2			
FH (60°-80°)	5471.5	31.0			G3/7500
FVH (80°-90°)	147.5	0.8			G2/225
BL (0°-30°)	992.0	5.6	B2/1000		
BM (30°-60°)	1562.7	8.9	B2/2500		
BH (60°-80°)	676.2	3.8	B2/1000		G2/1000
BVH (80°-90°)	17.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2627.1	2627.1	2627.1	2627.1	2627.1	2627.1	2627.1	2627.1	2627.1	2627.1	2627.1
2.5°	2682.6	2692.7	2672.5	2667.5	2641.0	2644.8	2639.7	2627.1	2632.1	2622.0	2628.3
5°	2786.1	2759.6	2752.1	2736.9	2712.9	2699.0	2678.8	2672.5	2686.4	2675.1	2677.6
7.5°	2896.0	2901.0	2866.9	2837.9	2795.0	2784.9	2749.5	2728.1	2742.0	2726.8	2735.6
10°	3033.6	3041.2	3004.5	2965.4	2928.8	2875.8	2831.6	2797.5	2793.7	2786.1	2798.8
12.5°	3214.1	3212.8	3172.4	3124.5	3052.5	3015.9	2931.3	2883.4	2889.7	2861.9	2859.4
15°	3423.7	3406.0	3359.3	3310.0	3220.4	3148.5	3046.2	2986.9	2997.0	2965.4	2957.8
17.5°	3628.2	3610.5	3573.9	3519.6	3437.5	3326.5	3201.5	3115.6	3113.1	3098.0	3052.5
20°	3837.7	3845.3	3796.1	3746.8	3664.8	3515.8	3374.4	3263.3	3265.9	3239.4	3151.0
22.5°	4082.6	4068.8	4009.4	3986.7	3893.3	3730.4	3572.6	3445.1	3419.9	3414.8	3262.1
25°	4316.2	4307.4	4253.1	4226.6	4148.3	3999.3	3794.8	3642.1	3638.3	3621.9	3406.0
27.5°	4501.8	4511.9	4506.8	4487.9	4402.0	4255.6	4076.3	3893.3	3895.8	3871.8	3592.8
30°	4765.6	4735.3	4723.9	4739.1	4731.5	4573.7	4383.1	4250.5	4241.7	4179.8	3828.9
32.5°	4919.6	4934.8	4949.9	5002.9	5004.2	4886.8	4763.1	4700.0	4735.3	4745.4	4415.9
35°	5061.0	5061.0	5148.1	5281.9	5328.6	5288.2	5235.2	5314.8	5384.2	5524.3	5138.0
37.5°	5187.3	5223.9	5305.9	5473.8	5626.6	5665.7	5781.9	6000.2	6084.8	6212.3	5746.5
40°	5293.3	5319.8	5424.6	5630.4	5892.9	6072.2	6289.3	6636.5	6724.9	6700.9	6084.8
42.5°	5175.9	5218.8	5386.7	5809.6	6140.4	6477.4	6761.5	7136.4	7243.7	7021.5	6440.8
45°	5112.8	5129.2	5304.7	5784.4	6322.2	6887.7	7209.6	7611.1	7611.1	7362.4	6692.0
47.5°	4986.5	5015.6	5223.9	5751.6	6515.3	7229.8	7555.5	7964.6	7991.1	7684.3	6942.0
50°	4859.0	4895.6	5131.7	5693.5	6623.9	7573.2	7849.7	8260.0	8270.1	7905.2	7162.9
52.5°	4732.8	4751.7	5015.6	5655.6	6743.8	7750.0	8103.4	8499.8	8504.9	8236.0	7406.6
55°	4506.8	4553.5	4826.2	5516.7	6737.5	7830.7	8236.0	8820.5	8869.7	8595.8	7646.4
57.5°	4294.7	4308.6	4606.5	5316.0	6635.2	7924.2	8521.3	9280.0	9328.0	8922.7	7824.4
60°	4011.9	4027.1	4347.7	5077.4	6483.8	8017.6	8883.6	9816.5	9838.0	9266.1	7958.2
62.5°	3716.5	3768.3	4032.1	4711.3	6169.4	8034.0	9190.4	10311.4	10302.6	9564.0	8046.6
65°	3369.4	3388.3	3642.1	4283.4	5688.4	7909.0	9316.6	10551.2	10572.7	9773.6	7988.5
67.5°	2952.8	2960.4	3134.6	3750.6	5119.1	7478.5	9211.8	10746.9	10801.2	9937.7	7746.2
70°	2332.9	2344.3	2504.6	3090.4	4311.1	6819.6	9035.1	10769.6	10746.9	9790.0	7377.5
72.5°	1626.0	1609.6	1766.1	2167.6	3264.6	5608.9	8181.7	9853.1	9893.5	9057.8	6606.2
75°	778.9	784.0	1094.5	1333.1	1833.0	4006.9	6809.5	8484.7	8653.8	7893.9	5381.7
77.5°	132.6	135.1	289.1	525.2	738.5	1681.5	4515.7	6757.7	6901.6	6195.9	3643.3
80°	106.0	106.0	141.4	282.8	391.3	696.9	1710.6	2995.7	3152.2	2806.3	1343.2
82.5°	72.0	75.7	101.0	165.4	138.9	272.7	621.1	948.1	973.3	882.4	551.7
85°	40.4	41.7	51.8	66.9	58.1	101.0	127.5	130.0	137.6	107.3	82.1
87.5°	5.0	11.4	11.4	11.4	5.0	5.0	3.8	3.8	5.0	3.8	3.8
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°	2627.1	2627.1	2627.1	2627.1	2627.1	2627.1	2627.1	2627.1	2627.1	2627.1	2627.1
2.5°	2624.6	2609.4	2642.2	2635.9	2658.6	2654.9	2673.8	2683.9	2705.4	2733.1	2730.6
5°	2680.1	2678.8	2718.0	2736.9	2757.1	2776.0	2777.3	2796.2	2815.2	2856.8	2855.6
7.5°	2733.1	2744.5	2800.0	2801.3	2808.9	2822.8	2803.8	2810.1	2815.2	2830.3	2835.4
10°	2795.0	2816.4	2817.7	2812.7	2788.7	2787.4	2744.5	2749.5	2726.8	2744.5	2735.6
12.5°	2874.5	2856.8	2846.7	2812.7	2776.0	2726.8	2686.4	2630.9	2618.2	2618.2	2622.0
15°	2952.8	2926.3	2839.2	2784.9	2718.0	2639.7	2574.1	2510.9	2479.4	2465.5	2463.0
17.5°	3021.0	2965.4	2841.7	2771.0	2644.8	2529.9	2431.4	2330.4	2281.2	2249.6	2244.6
20°	3076.5	3017.2	2849.3	2725.5	2565.2	2396.1	2247.1	2119.6	2022.4	1950.4	1958.0
22.5°	3169.9	3075.2	2844.2	2671.3	2473.1	2253.4	2028.7	1853.2	1690.4	1650.0	1661.3
25°	3282.3	3158.6	2873.3	2638.4	2365.8	2074.1	1778.7	1575.5	1401.3	1345.7	1349.5
27.5°	3412.3	3259.5	2906.1	2584.2	2254.7	1853.2	1497.2	1246.0	1107.1	997.3	988.5
30°	3619.3	3397.2	2941.4	2548.8	2099.4	1607.1	1190.5	929.1	754.9	695.6	695.6
32.5°	4105.4	3676.1	2998.2	2464.2	1894.9	1331.8	868.5	608.5	454.5	401.4	402.7
35°	4722.7	4239.2	3127.0	2360.7	1653.8	1009.9	536.5	338.3	266.4	239.9	237.3
37.5°	5312.2	4756.8	3402.2	2239.5	1349.5	640.0	301.7	208.3	181.8	180.5	181.8
40°	5675.8	5165.8	3678.7	2077.9	985.9	352.2	195.7	170.4	166.6	162.9	162.9
42.5°	6011.6	5447.3	3888.2	1830.5	588.3	213.3	171.7	155.3	152.8	146.4	146.4
45°	6284.3	5649.3	3904.6	1501.0	311.8	189.4	157.8	141.4	136.3	132.6	131.3
47.5°	6543.1	5846.2	3845.3	1150.1	222.2	175.5	147.7	130.0	123.7	126.2	125.0
50°	6717.3	6043.2	3683.7	903.9	212.1	162.9	136.3	118.7	116.1	121.2	119.9
52.5°	6905.4	6204.8	3369.4	703.2	196.9	150.2	125.0	111.1	106.0	109.8	111.1
55°	7054.4	6202.2	3138.4	549.1	186.8	140.1	117.4	104.8	95.9	95.9	94.7
57.5°	7127.6	6142.9	2952.8	431.7	175.5	130.0	109.8	92.2	82.1	79.5	78.3
60°	7123.8	6084.8	2736.9	354.7	164.1	118.7	98.5	78.3	68.2	63.1	63.1
62.5°	7083.4	5948.5	2394.8	305.5	152.8	109.8	82.1	64.4	56.8	51.8	53.0
65°	6979.9	5685.9	1974.4	260.1	141.4	106.0	69.4	56.8	49.2	44.2	44.2
67.5°	6621.4	5245.3	1540.1	218.4	130.0	88.4	60.6	48.0	41.7	36.6	36.6
70°	6113.9	4573.7	1013.7	184.3	116.1	77.0	54.3	41.7	35.3	30.3	29.0
72.5°	5211.2	3654.7	515.1	157.8	99.7	68.2	48.0	36.6	30.3	25.2	24.0
75°	3996.8	2461.7	320.7	126.2	78.3	60.6	42.9	32.8	25.2	18.9	17.7
77.5°	2383.4	991.0	227.2	88.4	53.0	48.0	35.3	26.5	20.2	13.9	13.9
80°	752.4	438.1	154.0	60.6	34.1	32.8	26.5	18.9	13.9	10.1	10.1
82.5°	425.4	277.7	103.5	40.4	24.0	21.5	15.1	11.4	8.8	7.6	7.6
85°	70.7	55.5	31.6	15.1	11.4	10.1	6.3	3.8	2.5	1.3	2.5
87.5°	3.8	3.8	5.0	5.0	5.0	3.8	2.5	0.0	0.0	0.0	0.0
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)