

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: P553602

Luminaire Tested: **VERD-G-CA2-160-727-U-T3-HSS**

Issue Date: 7/12/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P553602  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/12/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-G-CA2-160-727-U-T3-HSS  
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2700K, 1460mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

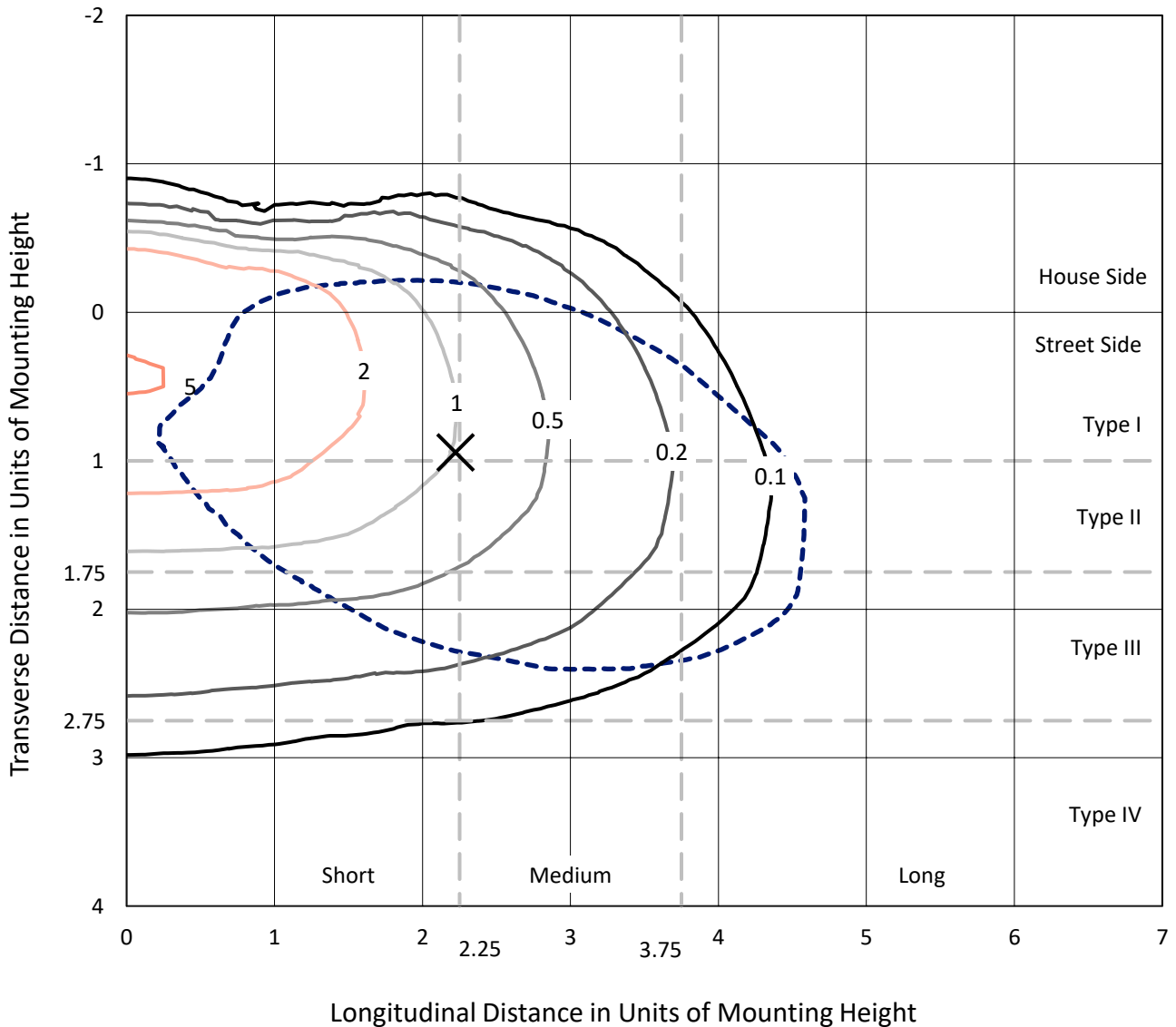
Lumens per Lamp: N/A  
Luminaire Lumens: 17813 lumens  
Efficiency: N/A  
Efficacy: 109.6 lumens/watt  
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 162.6  
Input Voltage (V): NR  
Input Current (Ain): 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



REPORT NUMBER: P553602  
 CATALOG NUMBER: VERD-G-CA2-160-727-U-T3-HSS

### Iso-Footcandle Lines of Horizontal Illumination

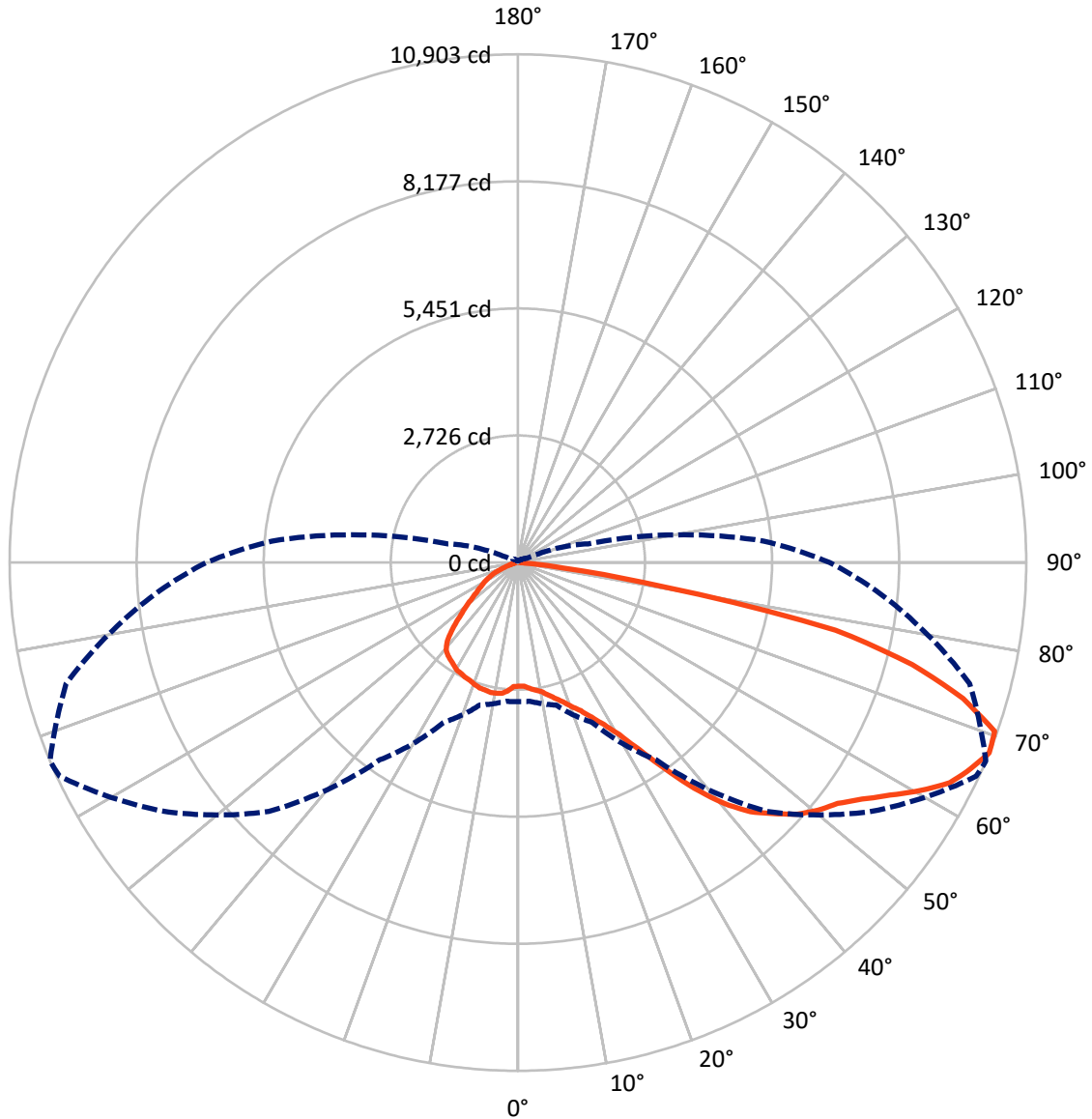
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc  
 Type III - Short - N/A

REPORT NUMBER: P553602  
CATALOG NUMBER: VERD-G-CA2-160-727-U-T3-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P553602

CATALOG NUMBER: VERD-G-CA2-160-727-U-T3-HSS

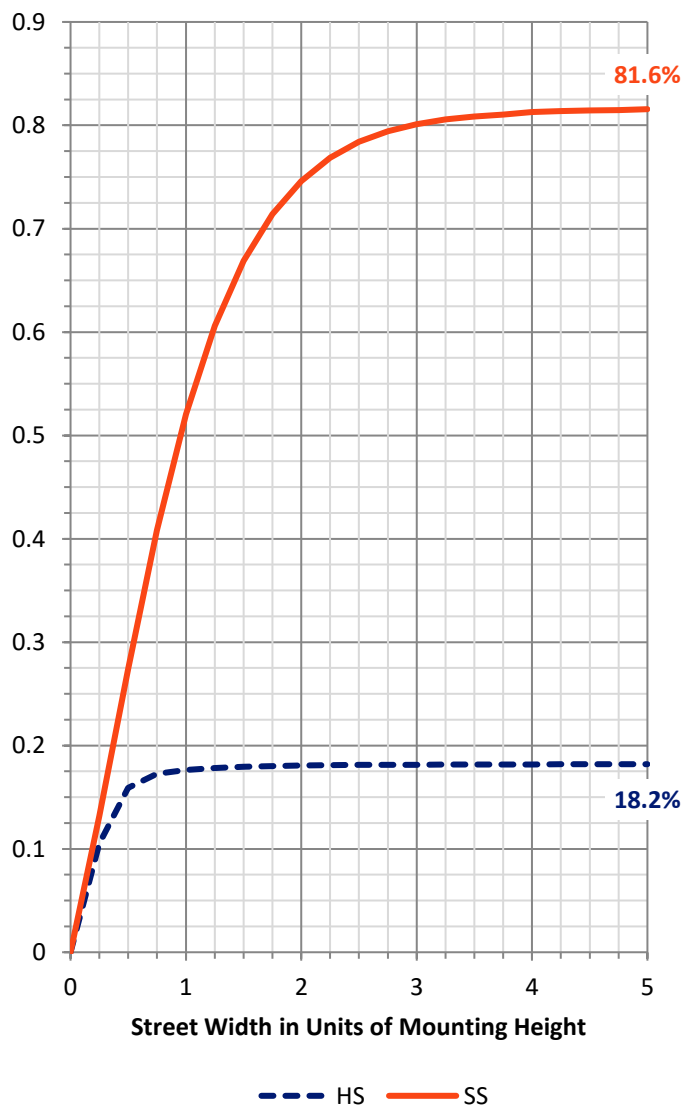
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3278.7	0.0	3278.7
	% Fixture	18.4	0.0	18.4
<b>Street Side</b>	Lumens	14534.3	0.0	14534.3
	% Fixture	81.6	0.0	81.6
<b>Total</b>	Lumens	17813.0	0.0	17813.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	266.7	1.5
10°-20°	833.8	4.7
20°-30°	1421.5	8.0
30°-40°	2168.2	12.2
40°-50°	3056.5	17.2
50°-60°	3694.4	20.7
60°-70°	3890.9	21.8
70°-80°	2314.6	13.0
80°-90°	166.4	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°	17813.0	100.0
0°-180°	17813.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P553602

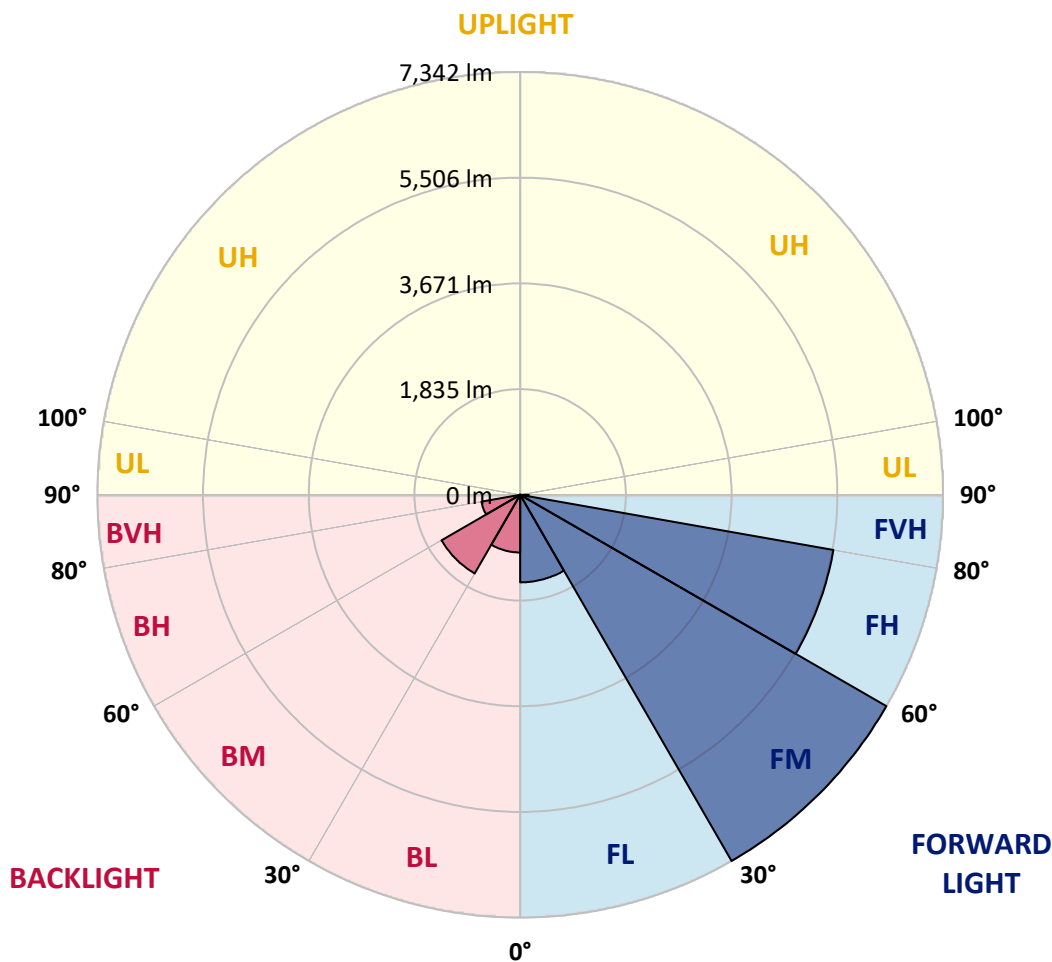
CATALOG NUMBER: VERD-G-CA2-160-727-U-T3-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1520.8	8.5			
FM (30°-60°)	7341.7	41.2			
FH (60°-80°)	5522.9	31.0			G3/7500
FVH (80°-90°)	148.9	0.8			G2/225
BL (0°-30°)	1001.3	5.6	B3/2500		
BM (30°-60°)	1577.4	8.9	B2/2500		
BH (60°-80°)	682.6	3.8	B2/1000		G2/1000
BVH (80°-90°)	17.5	0.1			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 III Short





REPORT NUMBER: P553602

CATALOG NUMBER: VERD-G-CA2-160-727-U-T3-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2651.8	2651.8	2651.8	2651.8	2651.8	2651.8	2651.8	2651.8	2651.8	2651.8	2651.8
2.5°	2707.9	2718.1	2697.7	2692.6	2665.8	2669.6	2664.5	2651.8	2656.9	2646.7	2653.1
5°	2812.4	2785.6	2777.9	2762.7	2738.4	2724.4	2704.0	2697.7	2711.7	2700.2	2702.8
7.5°	2923.2	2928.3	2893.9	2864.6	2821.3	2811.1	2775.4	2753.7	2767.8	2752.5	2761.4
10°	3062.1	3069.8	3032.8	2993.3	2956.3	2902.8	2858.2	2823.8	2820.0	2812.4	2825.1
12.5°	3244.3	3243.1	3202.3	3153.9	3081.2	3044.3	2958.9	2910.5	2916.8	2888.8	2886.3
15°	3455.9	3438.0	3390.9	3341.2	3250.7	3178.1	3074.9	3015.0	3025.2	2993.3	2985.7
17.5°	3662.3	3644.5	3607.5	3552.7	3469.9	3357.7	3231.6	3144.9	3142.4	3127.1	3081.2
20°	3873.8	3881.5	3831.8	3782.1	3699.3	3548.9	3406.2	3294.0	3296.6	3269.8	3180.6
22.5°	4121.0	4107.0	4047.1	4024.2	3929.9	3765.5	3606.2	3477.5	3452.0	3446.9	3292.8
25°	4356.8	4347.9	4293.1	4266.3	4187.3	4036.9	3830.5	3676.3	3672.5	3655.9	3438.0
27.5°	4544.1	4554.3	4549.2	4530.1	4443.4	4295.6	4114.7	3929.9	3932.5	3908.2	3626.6
30°	4810.4	4779.9	4768.4	4783.7	4776.0	4616.7	4424.3	4290.5	4281.6	4219.2	3864.9
32.5°	4965.9	4981.2	4996.5	5050.0	5051.3	4932.8	4807.9	4744.2	4779.9	4790.0	4457.5
35°	5108.6	5108.6	5196.5	5331.6	5378.8	5338.0	5284.5	5364.8	5434.8	5576.3	5186.4
37.5°	5236.0	5273.0	5355.8	5525.3	5679.5	5719.0	5836.2	6056.7	6142.1	6270.8	5800.6
40°	5343.1	5369.8	5475.6	5683.3	5948.4	6129.3	6348.5	6698.9	6788.1	6763.9	6142.1
42.5°	5224.6	5267.9	5437.4	5864.3	6198.1	6538.4	6825.1	7203.5	7311.9	7087.6	6501.4
45°	5160.9	5177.4	5354.6	5838.8	6381.6	6952.5	7277.5	7682.7	7682.7	7431.6	6755.0
47.5°	5033.4	5062.7	5273.0	5805.7	6576.6	7297.8	7626.6	8039.5	8066.2	7756.6	7007.3
50°	4904.7	4941.7	5180.0	5747.0	6686.2	7644.5	7923.5	8337.7	8347.9	7979.6	7230.3
52.5°	4777.3	4796.4	5062.7	5708.8	6807.2	7822.9	8179.7	8579.8	8584.9	8313.5	7476.2
55°	4549.2	4596.4	4871.6	5568.6	6800.9	7904.4	8313.5	8903.4	8953.1	8676.6	7718.4
57.5°	4335.1	4349.1	4649.9	5366.0	6697.7	7998.7	8601.4	9367.3	9415.7	9006.7	7898.0
60°	4049.7	4065.0	4388.6	5125.2	6544.7	8093.0	8967.2	9908.9	9930.5	9353.3	8033.1
62.5°	3751.5	3803.7	4070.1	4755.6	6227.4	8109.6	9276.8	10408.4	10399.5	9654.0	8122.3
65°	3401.1	3420.2	3676.3	4323.7	5741.9	7983.4	9404.2	10650.5	10672.2	9865.5	8063.7
67.5°	2980.6	2988.2	3164.1	3785.9	5167.2	7548.9	9298.5	10848.0	10902.8	10031.2	7819.0
70°	2354.9	2366.4	2528.2	3119.5	4351.7	6883.7	9120.1	10870.9	10848.0	9882.1	7446.9
72.5°	1641.3	1624.7	1782.7	2188.0	3295.3	5661.7	8258.7	9945.8	9986.6	9143.0	6668.3
75°	786.2	791.3	1104.8	1345.6	1850.3	4044.6	6873.5	8564.5	8735.2	7968.1	5432.3
77.5°	133.8	136.3	291.8	530.1	745.5	1697.4	4558.1	6821.3	6966.5	6254.2	3677.6
80°	107.0	107.0	142.7	285.4	395.0	703.4	1726.7	3023.9	3181.9	2832.7	1355.8
82.5°	72.6	76.5	101.9	166.9	140.2	275.2	626.9	957.0	982.5	890.7	556.9
85°	40.8	42.1	52.2	67.5	58.6	101.9	128.7	131.3	138.9	108.3	82.8
87.5°	5.1	11.5	11.5	11.5	5.1	5.1	3.8	3.8	5.1	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



REPORT NUMBER: P553602  
 CATALOG NUMBER: VERD-G-CA2-160-727-U-T3-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2651.8	2651.8	2651.8	2651.8	2651.8	2651.8	2651.8	2651.8	2651.8	2651.8	2651.8
2.5°	2649.2	2634.0	2667.1	2660.7	2683.7	2679.8	2698.9	2709.1	2730.8	2758.8	2756.3
5°	2705.3	2704.0	2743.5	2762.7	2783.0	2802.2	2803.4	2822.5	2841.7	2883.7	2882.4
7.5°	2758.8	2770.3	2826.4	2827.6	2835.3	2849.3	2830.2	2836.6	2841.7	2857.0	2862.1
10°	2821.3	2842.9	2844.2	2839.1	2814.9	2813.6	2770.3	2775.4	2752.5	2770.3	2761.4
12.5°	2901.6	2883.7	2873.5	2839.1	2802.2	2752.5	2711.7	2655.6	2642.9	2642.9	2646.7
15°	2980.6	2953.8	2865.9	2811.1	2743.5	2664.5	2598.3	2534.6	2502.7	2488.7	2486.1
17.5°	3049.4	2993.3	2868.4	2797.1	2669.6	2553.7	2454.3	2352.3	2302.6	2270.8	2265.7
20°	3105.4	3045.5	2876.1	2751.2	2589.4	2418.6	2268.2	2139.5	2041.4	1968.8	1976.4
22.5°	3199.7	3104.2	2871.0	2696.4	2496.3	2274.6	2047.8	1870.7	1706.3	1665.5	1677.0
25°	3313.1	3188.3	2900.3	2663.3	2388.0	2093.7	1795.5	1590.3	1414.5	1358.4	1362.2
27.5°	3444.4	3290.2	2933.4	2608.5	2275.9	1870.7	1511.3	1257.7	1117.6	1006.7	997.8
30°	3653.4	3429.1	2969.1	2572.8	2119.1	1622.2	1201.7	937.9	762.0	702.1	702.1
32.5°	4144.0	3710.7	3026.4	2487.4	1912.7	1344.4	876.7	614.2	458.7	405.2	406.5
35°	4767.1	4279.1	3156.4	2382.9	1669.3	1019.4	541.6	341.5	268.9	242.1	239.6
37.5°	5362.2	4801.5	3434.2	2260.6	1362.2	646.1	304.6	210.3	183.5	182.2	183.5
40°	5729.2	5214.4	3713.3	2097.5	995.2	355.5	197.5	172.0	168.2	164.4	164.4
42.5°	6068.2	5498.6	3924.8	1847.7	593.8	215.4	173.3	156.7	154.2	147.8	147.8
45°	6343.4	5702.4	3941.4	1515.1	314.7	191.1	159.3	142.7	137.6	133.8	132.5
47.5°	6604.6	5901.2	3881.5	1160.9	224.3	177.1	149.1	131.3	124.9	127.4	126.2
50°	6780.5	6100.0	3718.4	912.4	214.1	164.4	137.6	119.8	117.2	122.3	121.1
52.5°	6970.4	6263.1	3401.1	709.8	198.8	151.6	126.2	112.1	107.0	110.9	112.1
55°	7120.7	6260.6	3167.9	554.3	188.6	141.4	118.5	105.8	96.8	96.8	95.6
57.5°	7194.6	6200.7	2980.6	435.8	177.1	131.3	110.9	93.0	82.8	80.3	79.0
60°	7190.8	6142.1	2762.7	358.1	165.7	119.8	99.4	79.0	68.8	63.7	63.7
62.5°	7150.0	6004.4	2417.3	308.4	154.2	110.9	82.8	65.0	57.3	52.2	53.5
65°	7045.5	5739.4	1993.0	262.5	142.7	107.0	70.1	57.3	49.7	44.6	44.6
67.5°	6683.6	5294.7	1554.6	220.5	131.3	89.2	61.2	48.4	42.1	37.0	37.0
70°	6171.4	4616.7	1023.3	186.0	117.2	77.7	54.8	42.1	35.7	30.6	29.3
72.5°	5260.3	3689.1	519.9	159.3	100.7	68.8	48.4	37.0	30.6	25.5	24.2
75°	4034.4	2484.9	323.7	127.4	79.0	61.2	43.3	33.1	25.5	19.1	17.8
77.5°	2405.9	1000.3	229.4	89.2	53.5	48.4	35.7	26.8	20.4	14.0	14.0
80°	759.5	442.2	155.5	61.2	34.4	33.1	26.8	19.1	14.0	10.2	10.2
82.5°	429.4	280.3	104.5	40.8	24.2	21.7	15.3	11.5	8.9	7.6	7.6
85°	71.4	56.1	31.9	15.3	11.5	10.2	6.4	3.8	2.5	1.3	2.5
87.5°	3.8	3.8	5.1	5.1	5.1	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)