

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: P553600

Luminaire Tested: **VERD-G-CA2-160-727-U-T2-HSS**

Issue Date: 7/12/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P553600  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-3)  
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-T2-HSS  
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2700K, 1460mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17688 lumens  
Efficiency: N/A  
Efficacy: 108.8 lumens/watt  
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

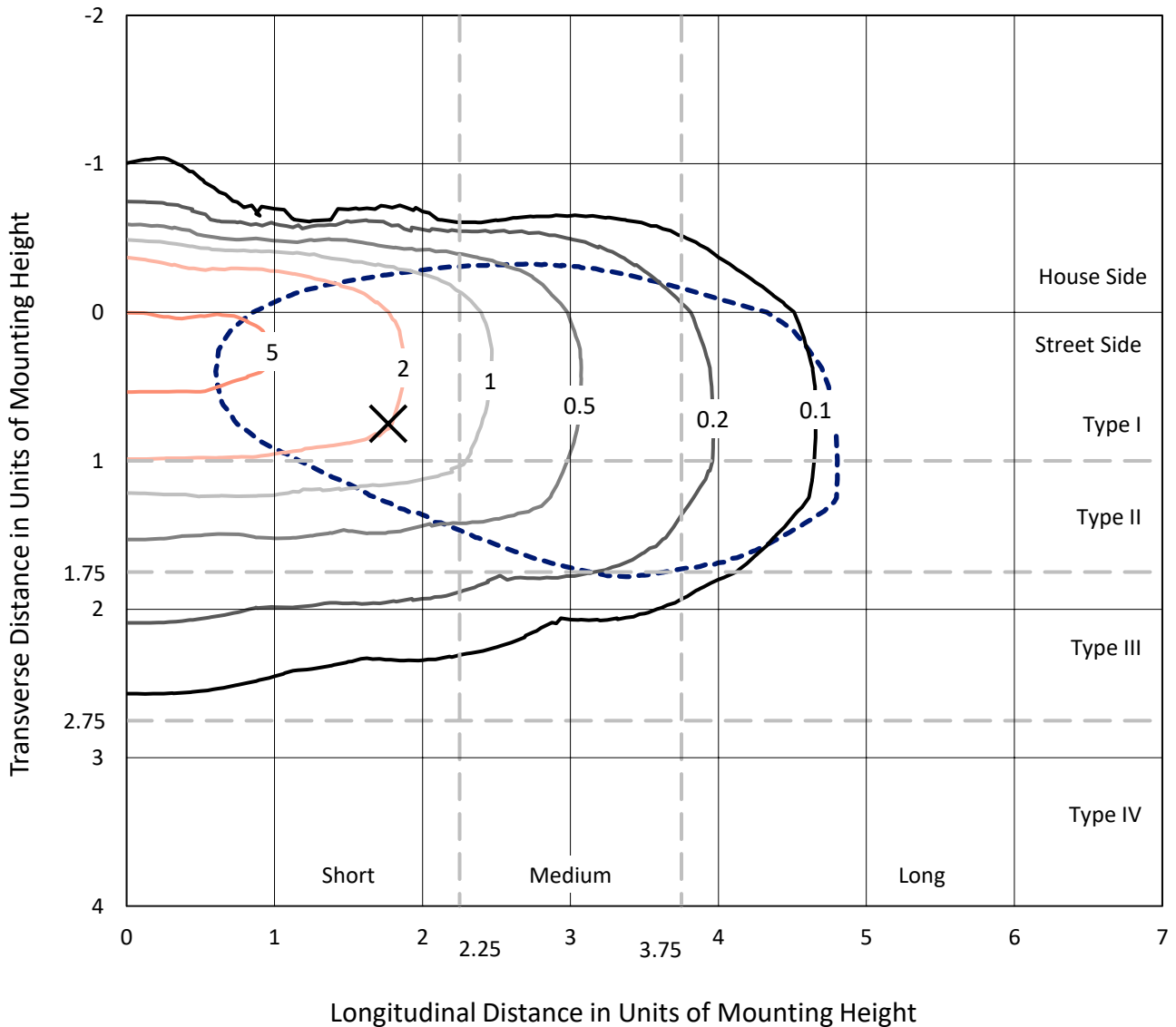
Input Watts (W): 162.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P553600  
 CATALOG NUMBER: VERD-G-CA2-160-727-U-T2-HSS

### Iso-Footcandle Lines of Horizontal Illumination

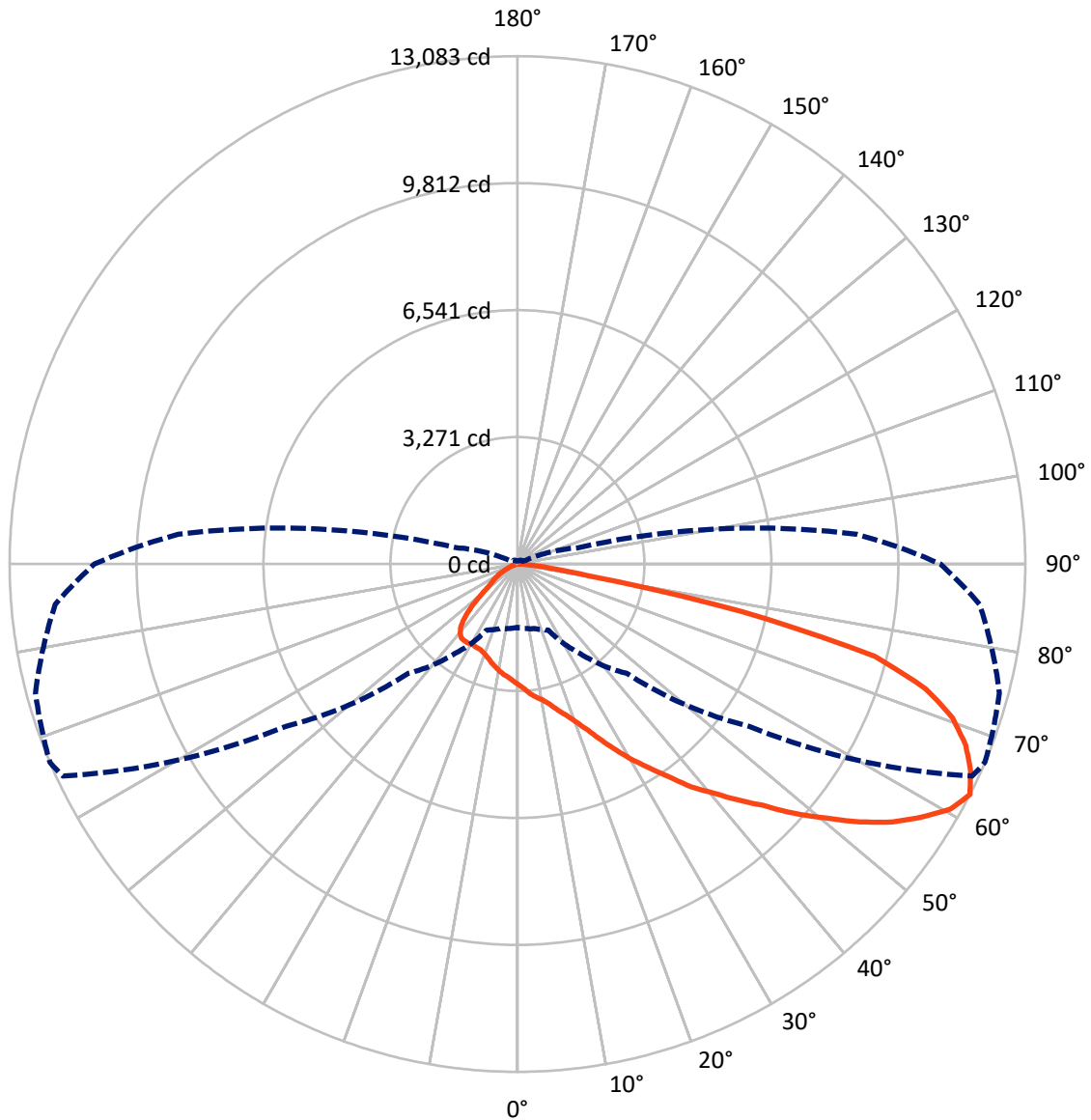
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc  
 Type II - Short - N/A

REPORT NUMBER: P553600  
CATALOG NUMBER: VERD-G-CA2-160-727-U-T2-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P553600

CATALOG NUMBER: VERD-G-CA2-160-727-U-T2-HSS

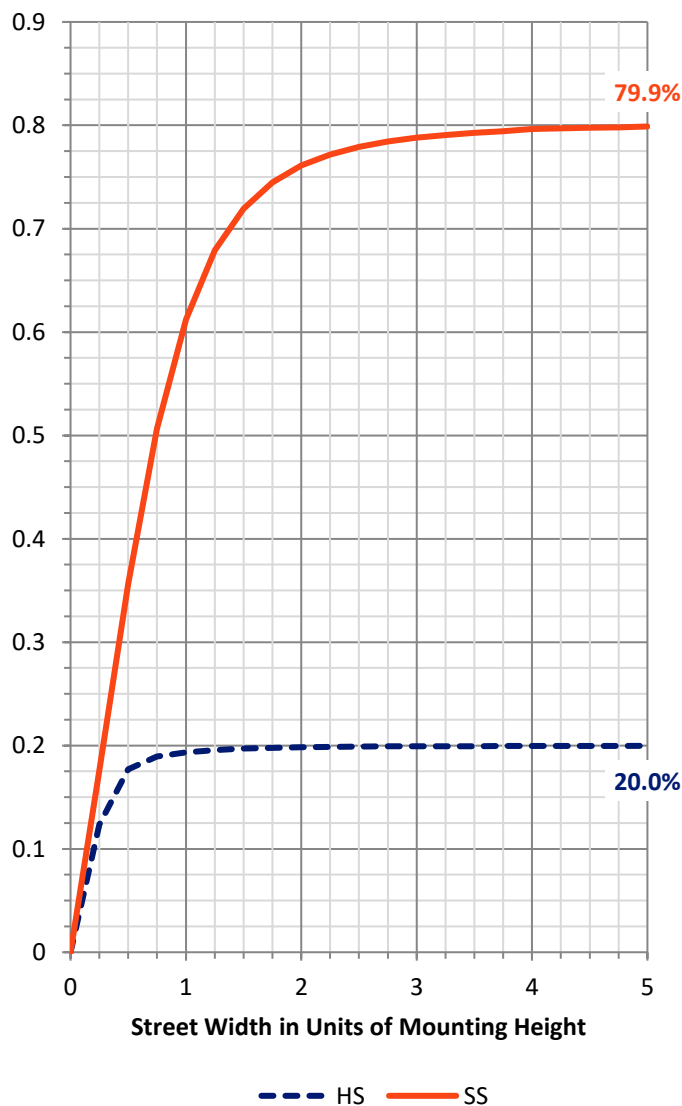
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3574.4	0.0	3574.4
	% Fixture	20.2	0.0	20.2
<b>Street Side</b>	Lumens	14113.7	0.0	14113.7
	% Fixture	79.8	0.0	79.8
<b>Total</b>	Lumens	17688.0	0.0	17688.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	300.3	1.7
10°-20°	905.7	5.1
20°-30°	1544.9	8.7
30°-40°	2263.3	12.8
40°-50°	2986.9	16.9
50°-60°	3515.1	19.9
60°-70°	3615.2	20.4
70°-80°	2342.3	13.2
80°-90°	214.4	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°	17688.0	100.0
0°-180°	17688.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P553600

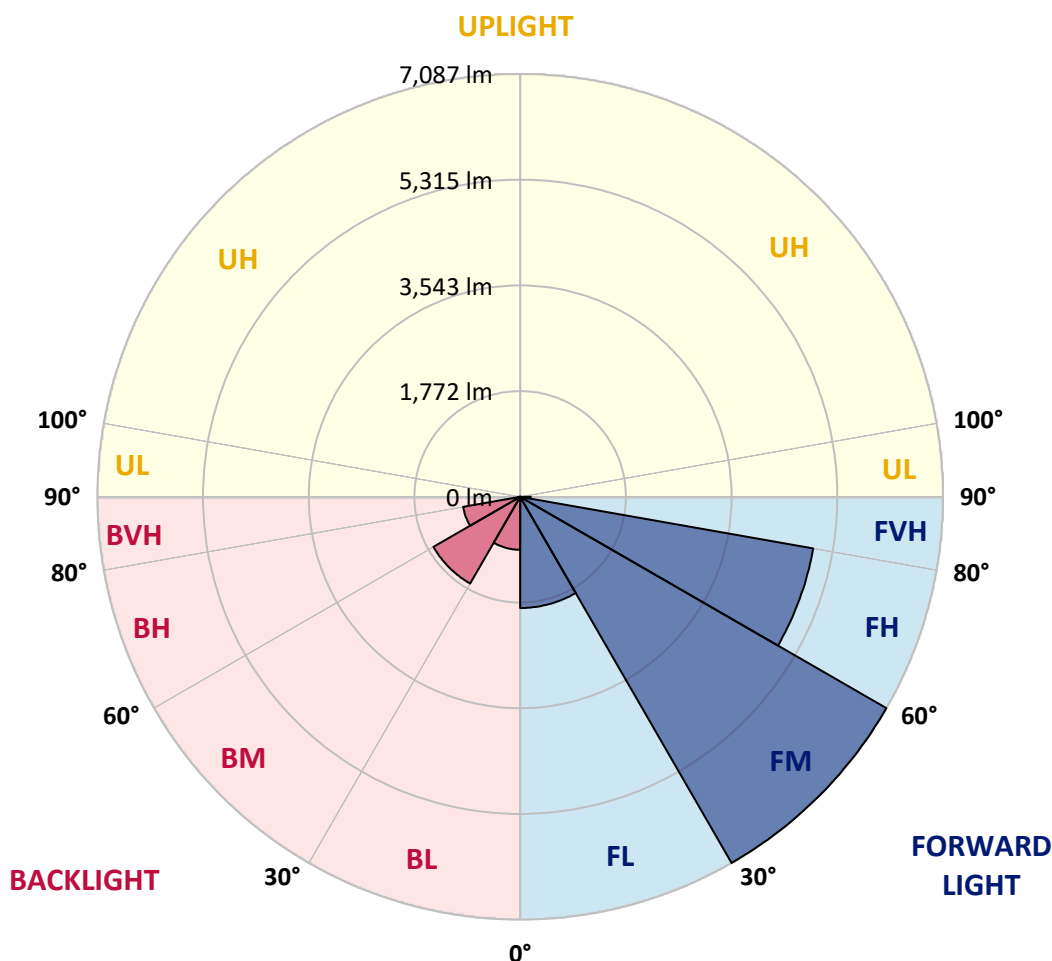
CATALOG NUMBER: VERD-G-CA2-160-727-U-T2-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1862.5	10.5			
FM (30°-60°)	7086.7	40.1			
FH (60°-80°)	4987.1	28.2			G2/5000
FVH (80°-90°)	177.3	1.0			G2/225
BL (0°-30°)	888.3	5.0	B2/1000		
BM (30°-60°)	1678.5	9.5	B2/2500		
BH (60°-80°)	970.4	5.5	B2/1000		G2/1000
BVH (80°-90°)	37.1	0.2			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





REPORT NUMBER: P553600

CATALOG NUMBER: VERD-G-CA2-160-727-U-T2-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3107.9	3107.9	3107.9	3107.9	3107.9	3107.9	3107.9	3107.9	3107.9	3107.9	3107.9
2.5°	3446.9	3443.0	3406.1	3371.7	3348.7	3347.5	3287.6	3234.1	3209.8	3181.8	3119.4
5°	3625.3	3655.8	3615.1	3564.1	3523.3	3492.7	3440.5	3379.3	3353.8	3287.6	3193.3
7.5°	3883.9	3883.9	3845.7	3802.4	3755.2	3673.7	3584.5	3477.4	3464.7	3390.8	3267.2
10°	4008.8	4039.4	3989.7	3938.7	3886.5	3844.4	3723.4	3592.1	3560.3	3449.4	3296.5
12.5°	4183.4	4183.4	4156.6	4113.3	4053.4	3969.3	3891.6	3759.1	3705.5	3539.9	3348.7
15°	4347.8	4333.7	4310.8	4239.4	4208.9	4156.6	4054.7	3915.8	3905.6	3722.1	3429.0
17.5°	4476.5	4453.5	4431.9	4393.6	4356.7	4336.3	4263.7	4142.6	4100.6	3932.4	3580.7
20°	4542.7	4561.8	4509.6	4508.3	4519.8	4504.5	4456.1	4365.6	4347.8	4147.7	3734.8
22.5°	4617.9	4643.4	4630.6	4643.4	4677.8	4703.3	4700.7	4681.6	4653.6	4435.7	3983.3
25°	4634.5	4617.9	4671.4	4789.9	4876.6	4937.7	5057.5	5033.3	5025.7	4833.3	4321.0
27.5°	4583.5	4598.8	4682.9	4853.6	5076.6	5243.6	5341.7	5462.7	5436.0	5286.9	4727.5
30°	4552.9	4579.7	4690.5	4890.6	5190.0	5492.0	5685.7	5836.1	5859.0	5740.5	5127.6
32.5°	4447.2	4482.8	4597.5	4919.9	5300.9	5758.4	5999.2	6279.5	6269.3	6220.9	5614.4
35°	4284.0	4331.2	4507.0	4881.7	5425.8	5997.9	6317.8	6725.5	6733.2	6753.6	6076.9
37.5°	4152.8	4168.1	4368.1	4768.3	5475.5	6191.6	6614.7	7166.4	7290.0	7260.7	6601.9
40°	3942.5	3988.4	4205.0	4629.4	5470.4	6322.9	6916.7	7682.5	7748.7	7840.5	7151.1
42.5°	3683.9	3733.6	3941.3	4440.8	5399.0	6437.5	7207.2	8208.8	8301.8	8445.8	7654.5
45°	3435.4	3457.1	3652.0	4165.5	5260.1	6528.0	7490.1	8727.4	8870.1	9076.5	8161.6
47.5°	3125.7	3184.4	3402.3	3877.6	4953.0	6561.1	7699.1	9339.0	9601.5	9727.7	8740.1
50°	2404.5	2441.5	3053.1	3624.0	4619.2	6457.9	7970.5	10115.0	10280.7	10411.9	9326.3
52.5°	2119.1	2152.2	2389.2	3330.9	4247.1	6190.3	8136.1	10836.3	11036.3	11008.3	9915.0
55°	1999.3	2015.9	2117.8	2718.0	3908.1	5693.4	8252.1	11623.8	11732.1	11551.1	10498.6
57.5°	1860.4	1879.5	1956.0	2278.4	3525.9	5063.9	8155.2	12254.5	12295.3	12071.0	11018.5
60°	1736.8	1749.6	1864.2	2038.8	3110.5	4453.5	7910.6	12708.1	12821.6	12453.3	11579.2
62.5°	1631.0	1661.6	1721.5	1875.7	2819.9	3980.8	7291.3	12922.2	13082.8	12853.4	11951.2
65°	1526.6	1540.6	1609.4	1745.7	2507.7	3701.7	6937.0	12640.6	12827.9	12906.9	12180.6
67.5°	1383.8	1404.2	1471.8	1569.9	2092.3	3430.3	6110.1	12183.2	12450.7	12625.3	12044.3
70°	1216.9	1234.8	1303.6	1385.1	1747.0	3030.2	5156.9	11716.8	11892.6	11904.1	11435.2
72.5°	1023.2	1039.8	1108.6	1190.2	1450.1	2523.0	4041.9	10612.0	11005.7	11255.5	10413.2
75°	651.1	722.5	893.3	985.0	1194.0	2041.4	2883.6	8472.5	9507.2	10220.8	9011.5
77.5°	105.8	118.5	350.4	499.5	694.5	1383.8	1601.7	4694.4	5904.9	8541.3	7276.0
80°	80.3	90.5	127.4	339.0	446.0	861.4	630.8	1524.0	1837.5	3993.5	4076.3
82.5°	34.4	40.8	76.5	189.9	210.3	229.4	169.5	681.7	806.6	1214.4	1414.4
85°	11.5	15.3	35.7	59.9	66.3	51.0	37.0	270.1	332.6	582.3	539.0
87.5°	0.0	1.3	7.6	8.9	7.6	5.1	3.8	2.5	2.5	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: P553600

CATALOG NUMBER: VERD-G-CA2-160-727-U-T2-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3107.9	3107.9	3107.9	3107.9	3107.9	3107.9	3107.9	3107.9	3107.9	3107.9	3107.9
2.5°	3106.6	3063.3	3058.2	3006.0	2958.8	2905.3	2872.2	2860.7	2876.0	2891.3	2906.6
5°	3144.9	3078.6	3012.3	2904.0	2855.6	2797.0	2719.3	2672.1	2650.5	2669.6	2675.9
7.5°	3172.9	3087.5	2985.6	2837.8	2733.3	2621.1	2547.2	2468.2	2424.9	2432.6	2438.9
10°	3178.0	3083.7	2910.4	2767.7	2599.5	2445.3	2348.5	2311.5	2282.2	2256.7	2260.5
12.5°	3225.1	3086.2	2846.7	2673.4	2496.3	2297.5	2189.2	2142.0	2136.9	2084.7	2079.6
15°	3288.9	3142.3	2813.6	2588.0	2361.2	2173.9	2045.2	1961.1	1963.6	1936.9	1933.0
17.5°	3392.1	3197.1	2789.3	2488.6	2219.8	2047.7	1884.6	1808.2	1784.0	1776.3	1769.9
20°	3508.0	3277.4	2760.0	2400.7	2096.1	1896.1	1713.9	1636.1	1568.6	1548.2	1550.8
22.5°	3678.8	3383.1	2784.2	2334.4	1958.5	1748.3	1567.3	1415.7	1299.7	1269.2	1265.3
25°	3980.8	3592.1	2856.9	2277.1	1873.2	1604.3	1360.9	1148.1	995.2	962.1	964.6
27.5°	4317.2	3867.4	2957.5	2252.9	1764.8	1445.0	1109.9	872.9	730.1	691.9	694.5
30°	4716.0	4194.8	3110.5	2185.3	1648.9	1213.1	827.0	639.7	528.8	484.2	486.8
32.5°	5099.6	4522.3	3306.7	2175.2	1503.6	911.1	597.6	465.1	374.6	341.5	345.3
35°	5522.6	4897.0	3513.1	2124.2	1265.3	653.7	419.2	322.4	274.0	263.8	262.5
37.5°	6001.7	5230.8	3666.0	2077.0	946.8	460.0	286.7	248.5	242.1	228.1	228.1
40°	6446.5	5578.7	3780.7	1952.2	662.6	312.2	224.3	225.5	219.2	200.1	196.2
42.5°	6856.8	5938.0	3886.5	1752.1	448.5	212.8	201.3	205.2	207.7	186.0	180.9
45°	7321.9	6381.5	3863.5	1451.4	285.4	192.4	180.9	192.4	205.2	183.5	178.4
47.5°	7831.6	6706.4	3912.0	1047.4	201.3	182.2	168.2	183.5	193.7	179.7	172.0
50°	8407.5	7132.0	3765.4	609.1	184.8	172.0	161.8	168.2	183.5	175.8	166.9
52.5°	8935.1	7511.7	3565.4	298.2	174.6	161.8	151.6	156.7	172.0	163.1	165.7
55°	9379.8	7906.8	3158.9	212.8	168.2	150.4	146.5	147.8	156.7	145.3	152.9
57.5°	9925.2	8231.7	2746.0	198.8	163.1	142.7	144.0	133.8	136.3	130.0	122.3
60°	10410.7	8538.8	2185.3	183.5	155.5	146.5	130.0	116.0	108.3	104.5	103.2
62.5°	10896.2	8772.0	1610.7	166.9	147.8	132.5	114.7	99.4	86.6	81.6	80.3
65°	11079.6	8896.9	1099.7	152.9	138.9	121.1	101.9	80.3	66.3	61.2	57.3
67.5°	10943.3	8505.7	637.1	137.6	133.8	110.9	89.2	65.0	51.0	47.1	44.6
70°	10311.3	7891.5	340.2	124.9	117.2	98.1	79.0	53.5	40.8	35.7	34.4
72.5°	9224.3	6786.7	178.4	104.5	98.1	80.3	62.4	44.6	33.1	26.8	25.5
75°	7832.8	5327.7	124.9	76.5	67.5	62.4	47.1	35.7	26.8	20.4	19.1
77.5°	6182.7	3462.2	94.3	49.7	39.5	40.8	34.4	29.3	21.7	15.3	15.3
80°	3193.3	1799.2	71.4	33.1	22.9	24.2	24.2	21.7	16.6	11.5	11.5
82.5°	1266.6	662.6	49.7	19.1	14.0	15.3	14.0	14.0	11.5	7.6	7.6
85°	418.0	145.3	17.8	11.5	8.9	8.9	7.6	6.4	3.8	2.5	2.5
87.5°	3.8	3.8	5.1	6.4	6.4	5.1	3.8	1.3	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)