

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: P553616

Luminaire Tested: **VERD-G-CA2-160-740-U-T2-HSS**

Issue Date: 7/12/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P553616  
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-CA2-160-740-U-T2-HSS  
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 4000K, 1460mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20888 lumens  
Efficiency: N/A  
Efficacy: 128.5 lumens/watt  
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

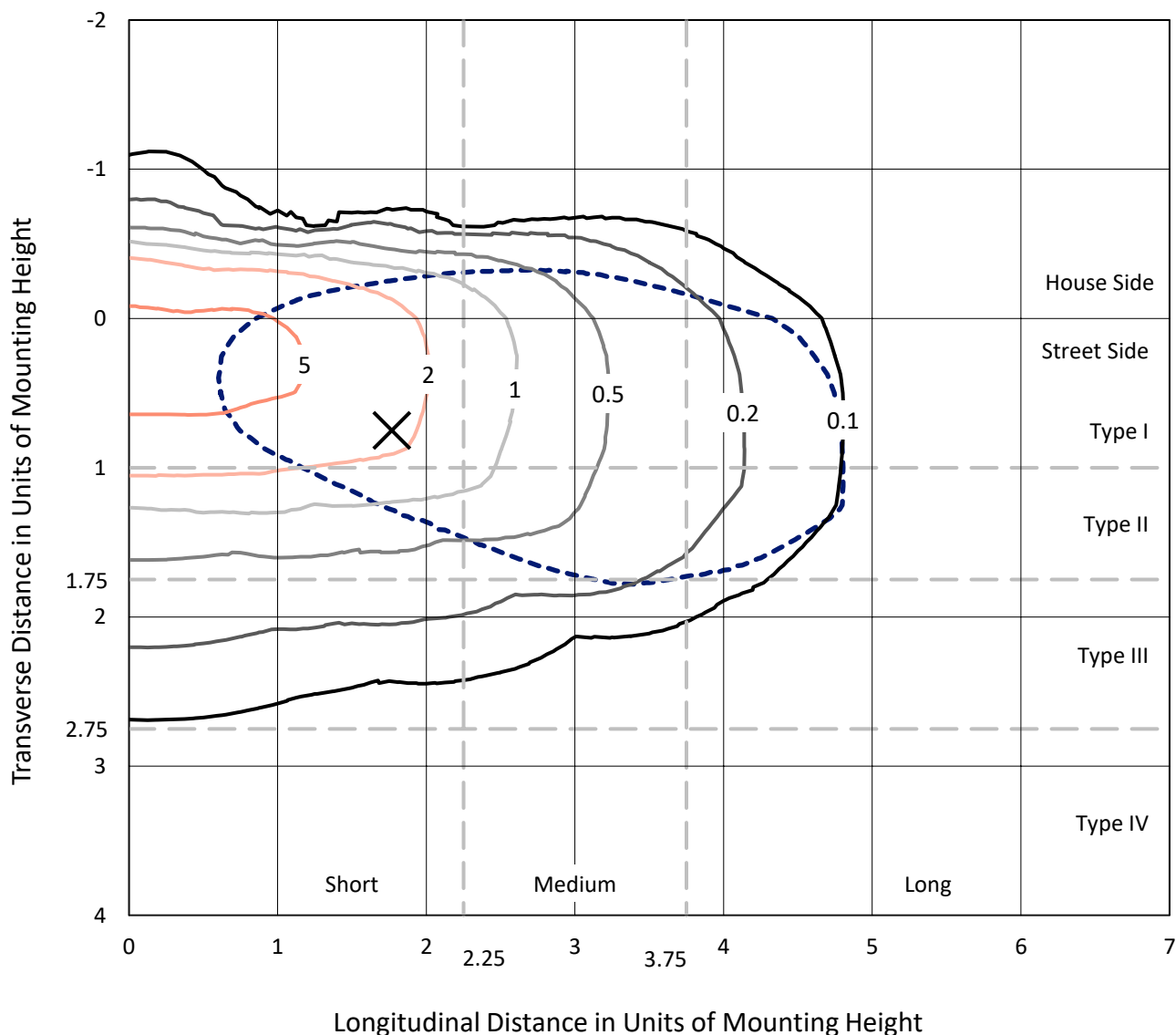
Input Watts (W): 162.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

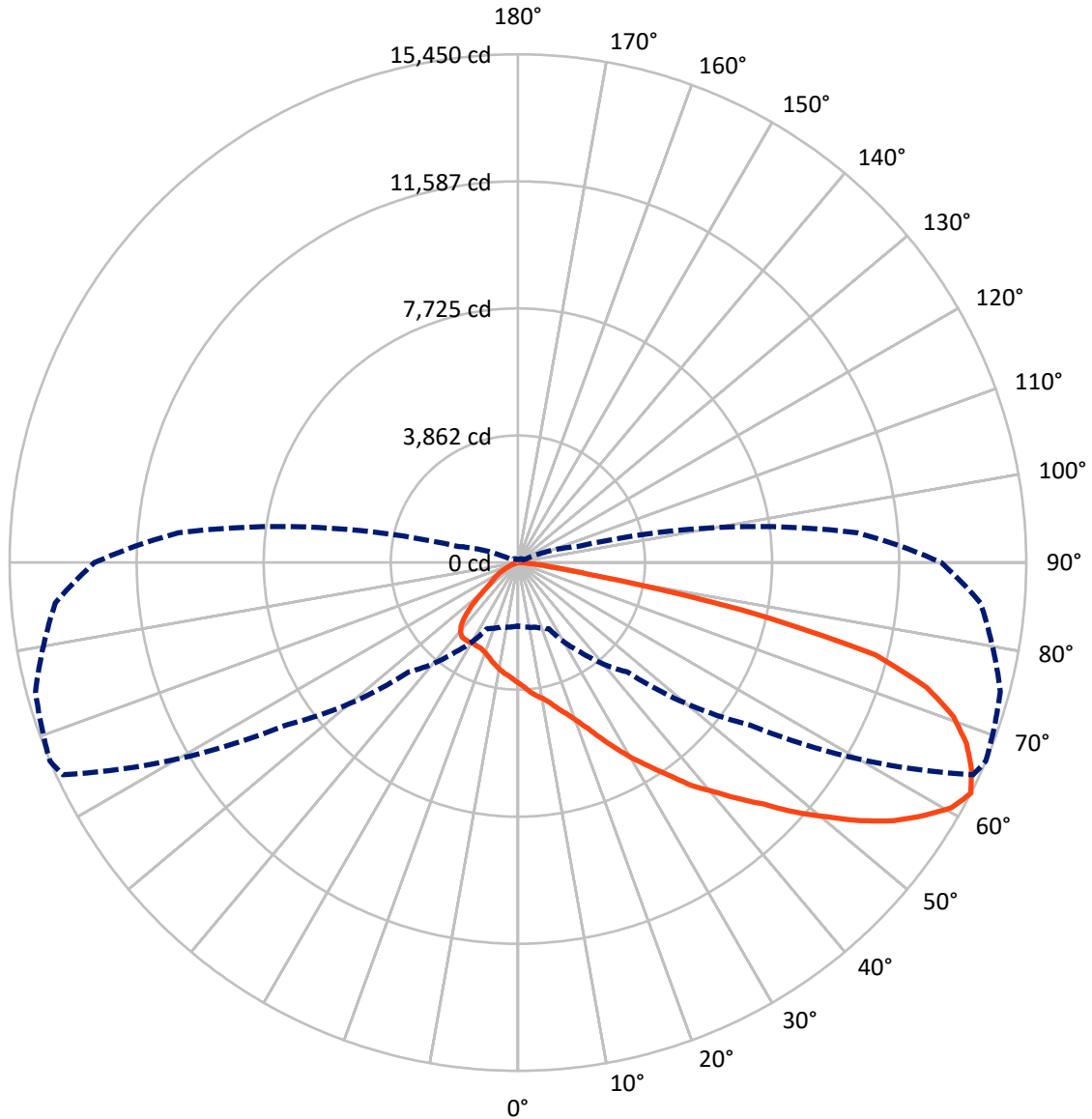
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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

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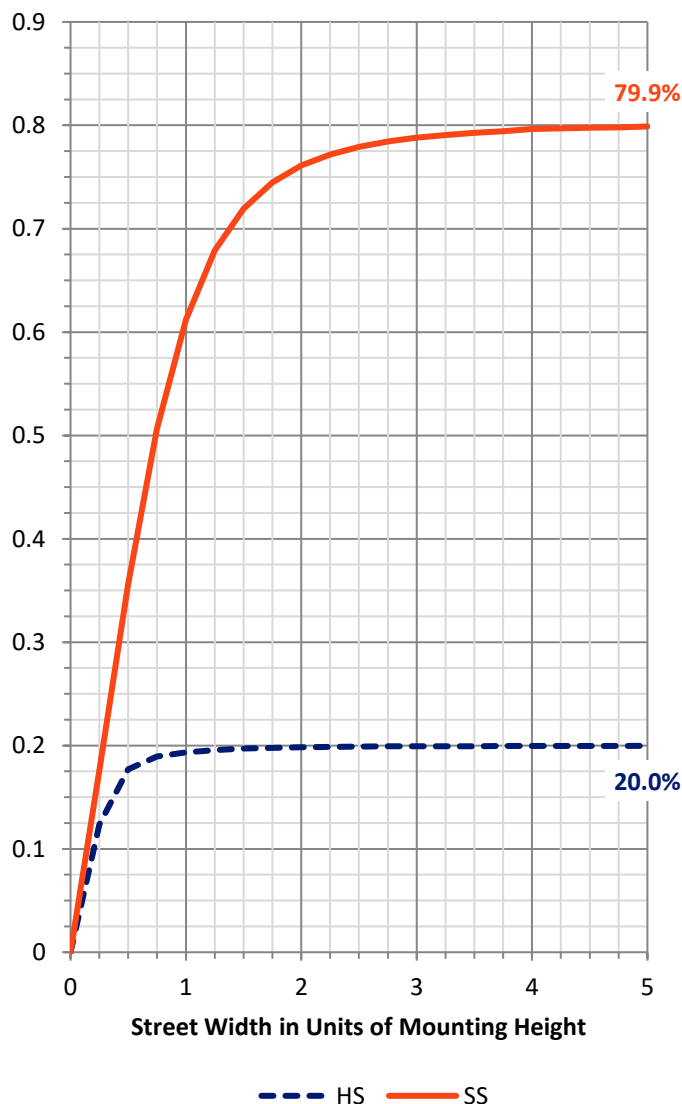
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4221.0	0.0	4221.0
	% Fixture	20.2	0.0	20.2
<b>Street Side</b>	Lumens	16667.0	0.0	16667.0
	% Fixture	79.8	0.0	79.8
<b>Total</b>	Lumens	20888.0	0.0	20888.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	354.6	1.7
10°-20°	1069.6	5.1
20°-30°	1824.4	8.7
30°-40°	2672.8	12.8
40°-50°	3527.2	16.9
50°-60°	4151.0	19.9
60°-70°	4269.3	20.4
70°-80°	2766.0	13.2
80°-90°	253.2	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°	20888.0	100.0
0°-180°	20888.0	100.0

**Coefficient of Utilization**



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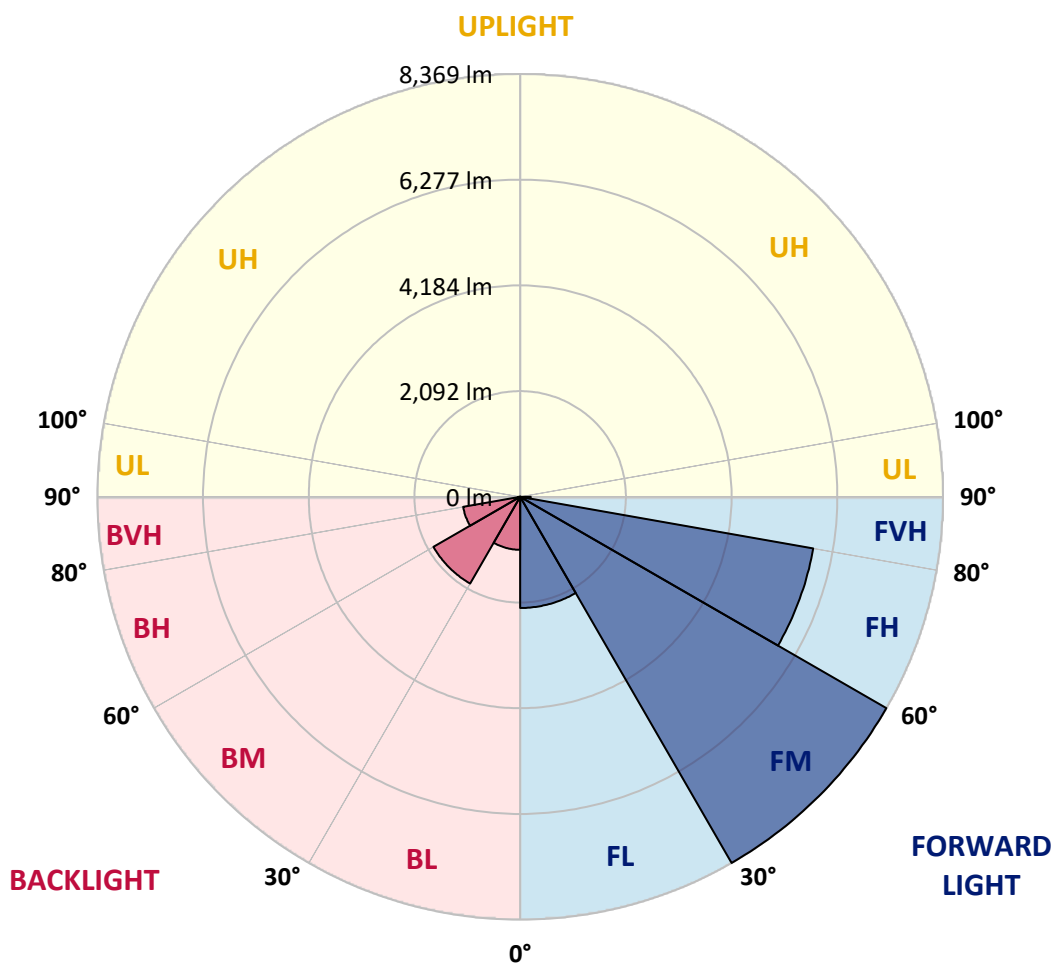
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2199.5	10.5			
FM (30°-60°)	8368.8	40.1			
FH (60°-80°)	5889.3	28.2			G3/7500
FVH (80°-90°)	209.4	1.0			G2/225
BL (0°-30°)	1049.1	5.0	B3/2500		
BM (30°-60°)	1982.1	9.5	B2/2500		
BH (60°-80°)	1146.0	5.5	B3/2500		G3/2500
BVH (80°-90°)	43.8	0.2			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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3670.2	3670.2	3670.2	3670.2	3670.2	3670.2	3670.2	3670.2	3670.2	3670.2	3670.2
2.5°	4070.4	4065.9	4022.3	3981.7	3954.6	3953.1	3882.3	3819.1	3790.6	3757.4	3683.7
5°	4281.1	4317.2	4269.1	4208.9	4160.7	4124.6	4062.9	3990.7	3960.6	3882.3	3771.0
7.5°	4586.6	4586.6	4541.4	4490.3	4434.6	4338.3	4233.0	4106.6	4091.5	4004.2	3858.3
10°	4734.1	4770.2	4711.5	4651.3	4589.6	4539.9	4397.0	4242.0	4204.4	4073.5	3892.9
12.5°	4940.2	4940.2	4908.6	4857.4	4786.7	4687.4	4595.6	4439.1	4375.9	4180.3	3954.6
15°	5134.3	5117.8	5090.7	5006.4	4970.3	4908.6	4788.2	4624.2	4612.2	4395.5	4049.4
17.5°	5286.3	5259.2	5233.6	5188.5	5144.9	5120.8	5035.0	4892.1	4842.4	4643.8	4228.4
20°	5364.6	5387.1	5325.4	5323.9	5337.5	5319.4	5262.2	5155.4	5134.3	4898.1	4410.5
22.5°	5453.3	5483.4	5468.4	5483.4	5524.1	5554.2	5551.2	5528.6	5495.5	5238.2	4704.0
25°	5472.9	5453.3	5516.5	5656.5	5758.8	5831.0	5972.5	5943.9	5934.9	5707.7	5102.7
27.5°	5412.7	5430.8	5530.1	5731.7	5995.1	6192.2	6308.1	6451.0	6419.4	6243.4	5582.8
30°	5376.6	5408.2	5539.1	5775.4	6129.0	6485.6	6714.4	6891.9	6919.0	6779.1	6055.3
32.5°	5251.7	5293.8	5429.3	5810.0	6259.9	6800.1	7084.5	7415.6	7403.5	7346.4	6630.1
35°	5059.1	5114.8	5322.4	5764.8	6407.4	7083.0	7460.7	7942.3	7951.3	7975.4	7176.3
37.5°	4904.1	4922.2	5158.4	5630.9	6466.1	7311.8	7811.3	8462.9	8608.9	8574.3	7796.3
40°	4655.8	4710.0	4965.8	5466.9	6460.0	7466.7	8168.0	9072.4	9150.6	9258.9	8444.9
42.5°	4350.3	4409.0	4654.3	5244.2	6375.8	7602.2	8511.1	9693.8	9803.7	9973.7	9039.2
45°	4056.9	4082.5	4312.7	4919.1	6211.8	7709.0	8845.1	10306.3	10474.8	10718.6	9638.2
47.5°	3691.2	3760.5	4017.8	4579.1	5849.1	7748.1	9091.9	11028.6	11338.6	11487.5	10321.3
50°	2839.5	2883.2	3605.5	4279.6	5454.8	7626.3	9412.4	11945.0	12140.6	12295.6	11013.5
52.5°	2502.5	2541.6	2821.5	3933.5	5015.4	7310.2	9608.1	12796.7	13032.9	12999.8	11708.7
55°	2361.0	2380.6	2501.0	3209.7	4615.2	6723.4	9745.0	13726.7	13854.6	13640.9	12397.9
57.5°	2197.0	2219.6	2309.8	2690.6	4163.7	5980.0	9630.6	14471.5	14519.7	14254.8	13011.9
60°	2051.0	2066.1	2201.5	2407.7	3673.2	5259.2	9341.7	15007.2	15141.2	14706.3	13674.0
62.5°	1926.1	1962.2	2033.0	2215.0	3330.1	4700.9	8610.4	15260.0	15449.6	15178.8	14113.4
65°	1802.7	1819.3	1900.5	2061.6	2961.4	4371.4	8192.1	14927.5	15148.7	15242.0	14384.2
67.5°	1634.2	1658.3	1738.0	1853.9	2470.9	4050.9	7215.4	14387.3	14703.3	14909.4	14223.2
70°	1437.1	1458.1	1539.4	1635.7	2063.1	3578.4	6089.9	13836.5	14044.2	14057.7	13503.9
72.5°	1208.3	1227.9	1309.2	1405.5	1712.4	2979.5	4773.2	12531.9	12996.8	13291.8	12297.1
75°	768.9	853.2	1054.9	1163.2	1410.0	2410.7	3405.3	10005.3	11227.2	12069.9	10641.8
77.5°	124.9	139.9	413.8	589.9	820.1	1634.2	1891.5	5543.6	6973.2	10086.6	8592.3
80°	94.8	106.8	150.5	400.3	526.7	1017.2	744.9	1799.7	2169.9	4716.0	4813.8
82.5°	40.6	48.2	90.3	224.2	248.3	270.9	200.1	805.1	952.5	1434.1	1670.3
85°	13.5	18.1	42.1	70.7	78.2	60.2	43.6	319.0	392.7	687.7	636.5
87.5°	0.0	1.5	9.0	10.5	9.0	6.0	4.5	3.0	3.0	4.5	4.5
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°	3670.2	3670.2	3670.2	3670.2	3670.2	3670.2	3670.2	3670.2	3670.2	3670.2	3670.2
2.5°	3668.7	3617.5	3611.5	3549.8	3494.1	3430.9	3391.8	3378.2	3396.3	3414.4	3432.4
5°	3713.8	3635.6	3557.3	3429.4	3372.2	3303.0	3211.2	3155.5	3130.0	3152.5	3160.0
7.5°	3746.9	3646.1	3525.7	3351.2	3227.8	3095.3	3008.1	2914.8	2863.6	2872.6	2880.2
10°	3752.9	3641.6	3436.9	3268.4	3069.8	2887.7	2773.3	2729.7	2695.1	2665.0	2669.5
12.5°	3808.6	3644.6	3361.7	3157.0	2947.9	2713.1	2585.2	2529.5	2523.5	2461.8	2455.8
15°	3883.9	3710.8	3322.6	3056.2	2788.4	2567.2	2415.2	2315.9	2318.9	2287.3	2282.8
17.5°	4005.7	3775.5	3294.0	2938.8	2621.3	2418.2	2225.6	2135.3	2106.7	2097.7	2090.1
20°	4142.7	3870.3	3259.4	2835.0	2475.4	2239.1	2023.9	1932.1	1852.4	1828.3	1831.3
22.5°	4344.3	3995.2	3288.0	2756.8	2312.9	2064.6	1850.9	1671.8	1534.9	1498.8	1494.3
25°	4700.9	4242.0	3373.7	2689.1	2212.0	1894.5	1607.1	1355.8	1175.2	1136.1	1139.1
27.5°	5098.2	4567.0	3492.6	2660.5	2084.1	1706.4	1310.7	1030.8	862.2	817.1	820.1
30°	5569.2	4953.8	3673.2	2580.7	1947.2	1432.6	976.6	755.4	624.5	571.8	574.8
32.5°	6022.2	5340.5	3904.9	2568.7	1775.6	1075.9	705.7	549.2	442.4	403.3	407.8
35°	6521.7	5782.9	4148.7	2508.5	1494.3	772.0	495.1	380.7	323.5	311.5	310.0
37.5°	7087.5	6177.1	4329.3	2452.8	1118.1	543.2	338.6	293.4	285.9	269.4	269.4
40°	7612.7	6588.0	4464.7	2305.3	782.5	368.7	264.8	266.3	258.8	236.3	231.7
42.5°	8097.2	7012.3	4589.6	2069.1	529.7	251.3	237.8	242.3	245.3	219.7	213.7
45°	8646.5	7536.0	4562.5	1714.0	337.1	227.2	213.7	227.2	242.3	216.7	210.7
47.5°	9248.4	7919.7	4619.7	1236.9	237.8	215.2	198.6	216.7	228.7	212.2	203.1
50°	9928.6	8422.3	4446.6	719.3	218.2	203.1	191.1	198.6	216.7	207.7	197.1
52.5°	10551.6	8870.7	4210.4	352.1	206.2	191.1	179.1	185.1	203.1	192.6	195.6
55°	11076.7	9337.2	3730.4	251.3	198.6	177.6	173.1	174.6	185.1	171.5	180.6
57.5°	11720.8	9720.9	3242.8	234.7	192.6	168.5	170.0	158.0	161.0	153.5	144.5
60°	12294.1	10083.6	2580.7	216.7	183.6	173.1	153.5	136.9	127.9	123.4	121.9
62.5°	12867.4	10358.9	1902.0	197.1	174.6	156.5	135.4	117.4	102.3	96.3	94.8
65°	13084.1	10506.4	1298.6	180.6	164.0	143.0	120.4	94.8	78.2	72.2	67.7
67.5°	12923.1	10044.4	752.4	162.5	158.0	130.9	105.3	76.7	60.2	55.7	52.7
70°	12176.7	9319.1	401.8	147.5	138.4	115.9	93.3	63.2	48.2	42.1	40.6
72.5°	10893.1	8014.5	210.7	123.4	115.9	94.8	73.7	52.7	39.1	31.6	30.1
75°	9249.9	6291.5	147.5	90.3	79.8	73.7	55.7	42.1	31.6	24.1	22.6
77.5°	7301.2	4088.5	111.4	58.7	46.6	48.2	40.6	34.6	25.6	18.1	18.1
80°	3771.0	2124.8	84.3	39.1	27.1	28.6	28.6	25.6	19.6	13.5	13.5
82.5°	1495.8	782.5	58.7	22.6	16.6	18.1	16.6	16.6	13.5	9.0	9.0
85°	493.6	171.5	21.1	13.5	10.5	10.5	9.0	7.5	4.5	3.0	3.0
87.5°	4.5	4.5	6.0	7.5	7.5	6.0	4.5	1.5	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)