

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: P553624

Luminaire Tested: **VERD-G-CA2-160-750-U-T2-HSS**

Issue Date: 7/12/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P553624  
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-CA2-160-750-U-T2-HSS  
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 5000K, 1460mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

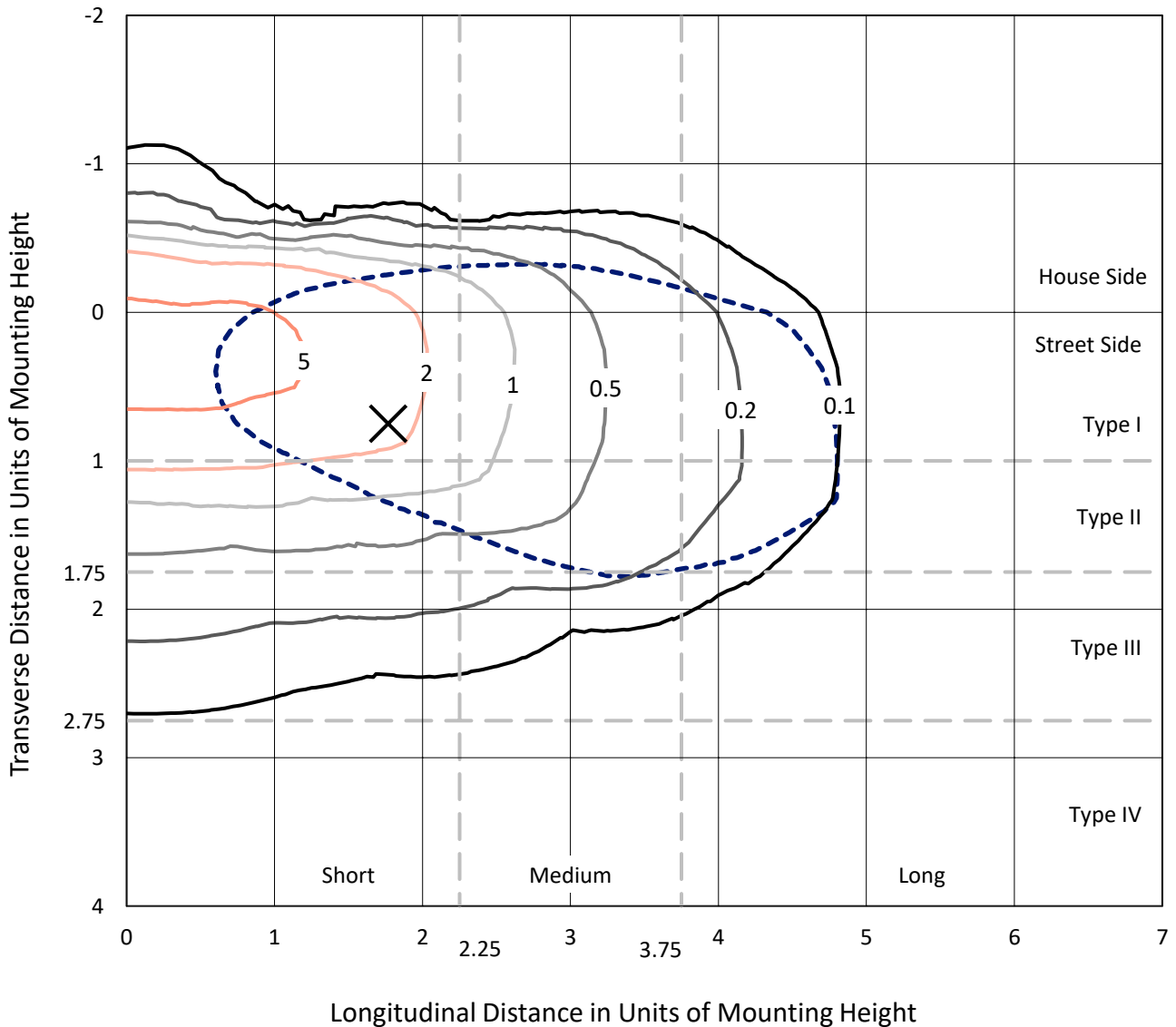
Lumens per Lamp: N/A  
Luminaire Lumens: 21271 lumens  
Efficiency: N/A  
Efficacy: 130.8 lumens/watt  
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 162.6  
Input Voltage (V): NR  
Input Current (Ain): 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

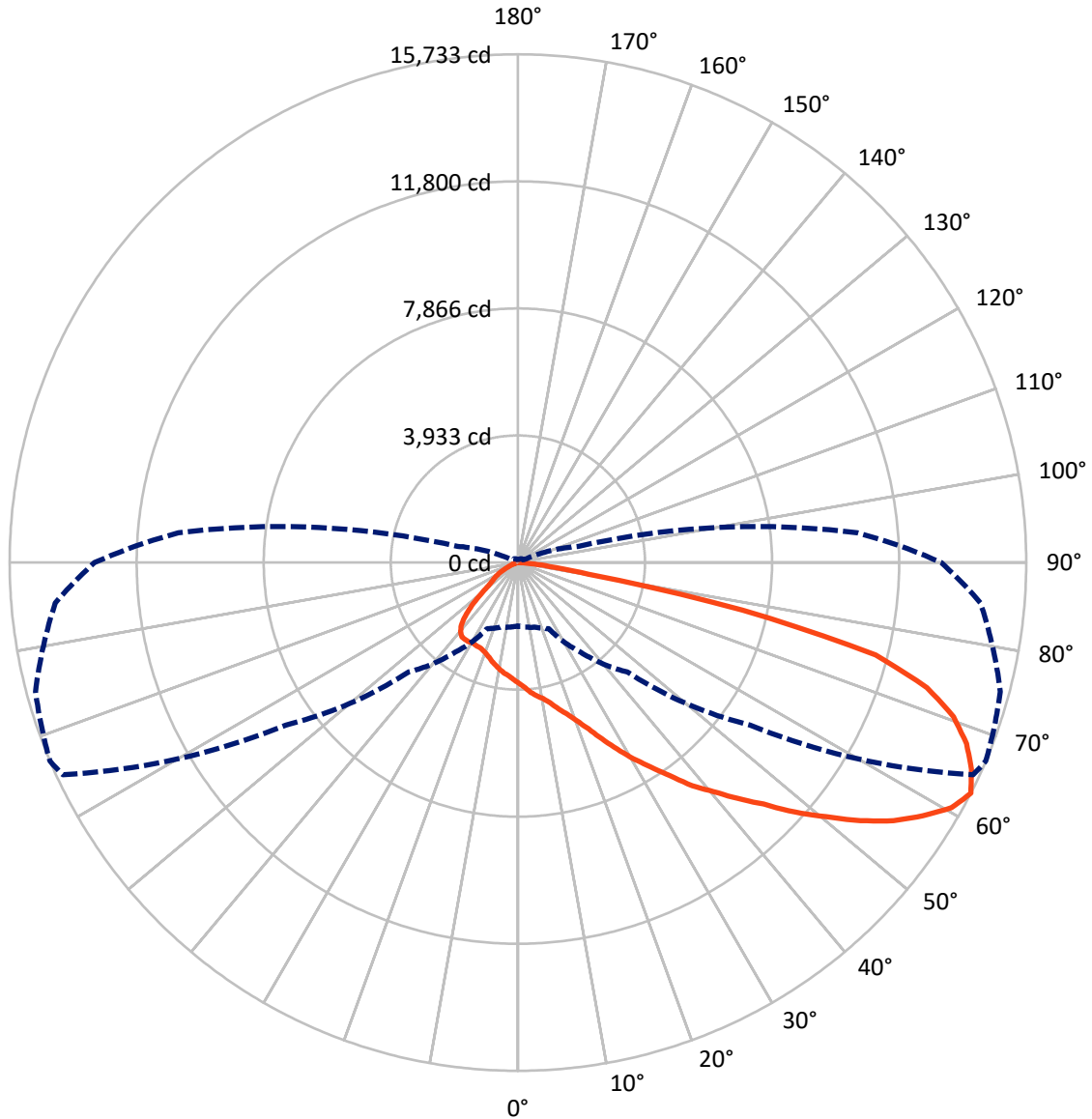
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 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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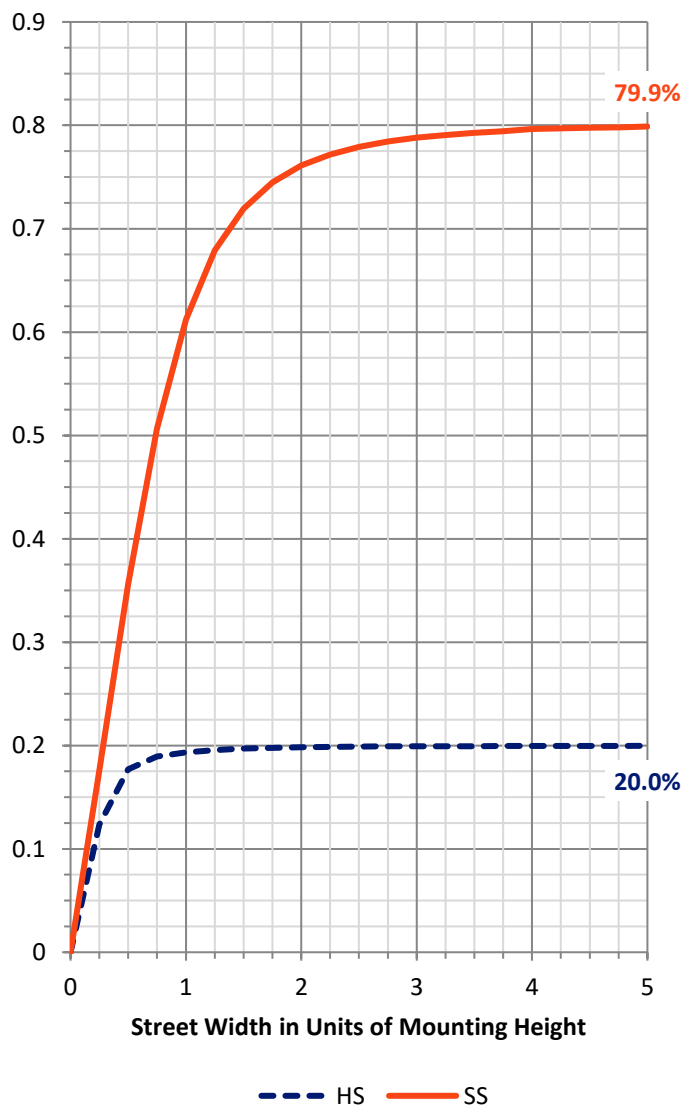
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4298.4	0.0	4298.4
	% Fixture	20.2	0.0	20.2
<b>Street Side</b>	Lumens	16972.6	0.0	16972.6
	% Fixture	79.8	0.0	79.8
<b>Total</b>	Lumens	21271.0	0.0	21271.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	361.1	1.7
10°-20°	1089.2	5.1
20°-30°	1857.8	8.7
30°-40°	2721.8	12.8
40°-50°	3591.9	16.9
50°-60°	4227.1	19.9
60°-70°	4347.6	20.4
70°-80°	2816.7	13.2
80°-90°	257.8	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°	21271.0	100.0
0°-180°	21271.0	100.0

**Coefficient of Utilization**



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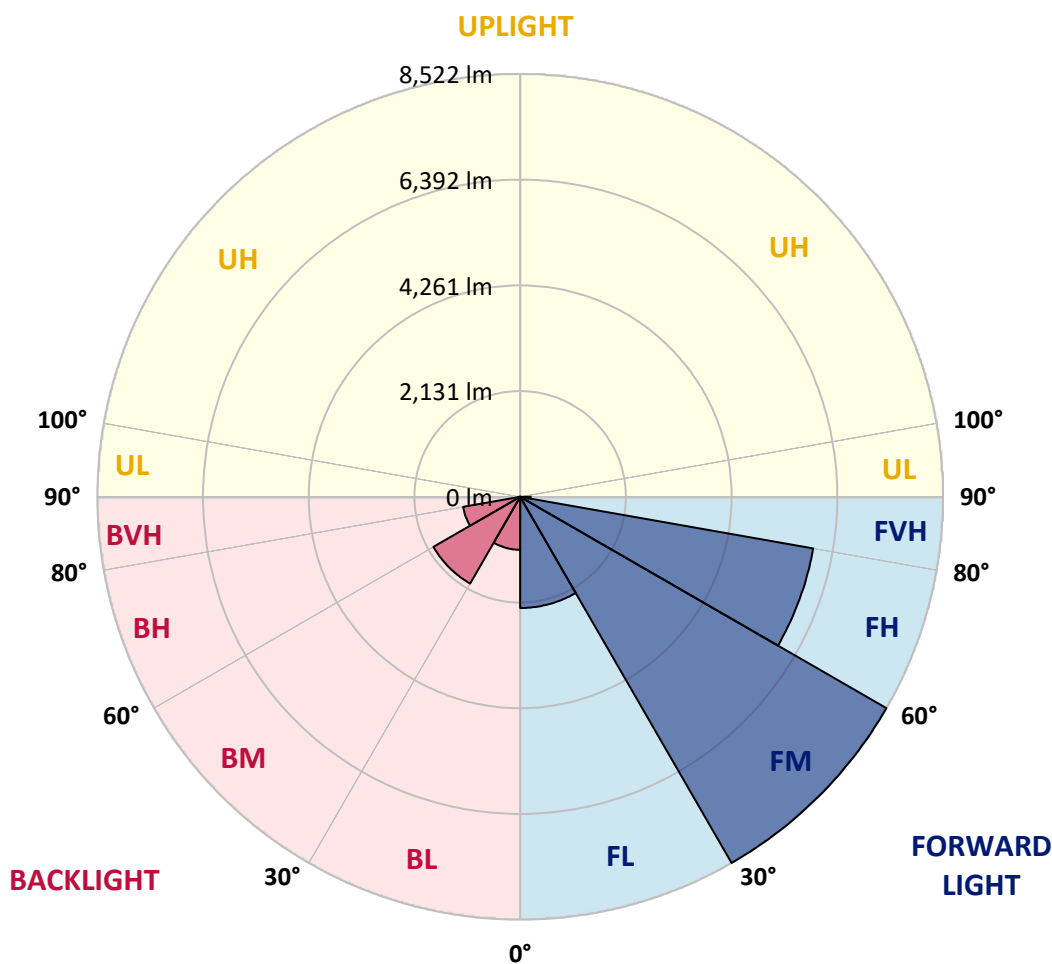
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2239.8	10.5			
FM (30°-60°)	8522.3	40.1			
FH (60°-80°)	5997.3	28.2			G3/7500
FVH (80°-90°)	213.2	1.0			G2/225
BL (0°-30°)	1068.3	5.0	B3/2500		
BM (30°-60°)	2018.5	9.5	B2/2500		
BH (60°-80°)	1167.0	5.5	B3/2500		G3/2500
BVH (80°-90°)	44.6	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°	3737.5	3737.5	3737.5	3737.5	3737.5	3737.5	3737.5	3737.5	3737.5	3737.5	3737.5
2.5°	4145.1	4140.5	4096.0	4054.7	4027.1	4025.6	3953.5	3889.2	3860.1	3826.3	3751.3
5°	4359.6	4396.4	4347.4	4286.1	4237.0	4200.2	4137.4	4063.9	4033.2	3953.5	3840.1
7.5°	4670.7	4670.7	4624.7	4572.6	4515.9	4417.8	4310.6	4181.9	4166.5	4077.7	3929.0
10°	4820.9	4857.6	4797.9	4736.6	4673.7	4623.2	4477.6	4319.8	4281.5	4148.1	3964.3
12.5°	5030.8	5030.8	4998.6	4946.5	4874.5	4773.4	4679.9	4520.5	4456.2	4256.9	4027.1
15°	5228.5	5211.6	5184.0	5098.2	5061.4	4998.6	4876.0	4709.0	4696.7	4476.1	4123.6
17.5°	5383.2	5355.7	5329.6	5283.6	5239.2	5214.7	5127.3	4981.8	4931.2	4728.9	4306.0
20°	5462.9	5485.9	5423.1	5421.5	5435.3	5417.0	5358.7	5249.9	5228.5	4987.9	4491.4
22.5°	5553.3	5584.0	5568.7	5584.0	5625.4	5656.0	5652.9	5630.0	5596.2	5334.2	4790.2
25°	5573.3	5553.3	5617.7	5760.2	5864.4	5938.0	6082.0	6052.9	6043.7	5812.3	5196.3
27.5°	5512.0	5530.3	5631.5	5836.8	6105.0	6305.7	6423.7	6569.3	6537.1	6357.8	5685.1
30°	5475.2	5507.4	5640.7	5881.3	6241.4	6604.5	6837.5	7018.3	7045.9	6903.4	6166.3
32.5°	5348.0	5390.9	5528.8	5916.5	6374.7	6924.8	7214.4	7551.6	7539.3	7481.1	6751.7
35°	5151.9	5208.5	5420.0	5870.5	6524.9	7212.9	7597.5	8087.9	8097.1	8121.6	7307.9
37.5°	4994.0	5012.4	5253.0	5734.2	6584.6	7445.8	7954.6	8618.1	8766.7	8731.5	7939.2
40°	4741.2	4796.3	5056.8	5567.1	6578.5	7603.7	8317.7	9238.7	9318.4	9428.7	8599.7
42.5°	4430.1	4489.9	4739.6	5340.3	6492.7	7741.6	8667.1	9871.6	9983.4	10156.6	9205.0
45°	4131.3	4157.3	4391.8	5009.3	6325.7	7850.4	9007.3	10495.2	10666.9	10915.1	9814.9
47.5°	3758.9	3829.4	4091.4	4663.0	5956.3	7890.2	9258.6	11230.8	11546.5	11698.2	10510.6
50°	2891.6	2936.0	3671.6	4358.1	5554.9	7766.1	9585.0	12164.0	12363.2	12521.1	11215.5
52.5°	2548.3	2588.2	2873.2	4005.6	5107.4	7444.3	9784.2	13031.3	13271.9	13238.2	11923.4
55°	2404.3	2424.2	2546.8	3268.6	4699.8	6846.7	9923.7	13978.3	14108.6	13891.0	12625.3
57.5°	2237.3	2260.3	2352.2	2739.9	4240.1	6089.7	9807.2	14736.9	14785.9	14516.2	13250.5
60°	2088.6	2104.0	2241.9	2451.8	3740.5	5355.7	9513.0	15282.4	15418.8	14975.9	13924.7
62.5°	1961.4	1998.2	2070.2	2255.7	3391.2	4787.1	8768.3	15539.8	15732.9	15457.1	14372.2
65°	1835.8	1852.6	1935.4	2099.4	3015.7	4451.6	8342.3	15201.2	15426.4	15521.4	14648.0
67.5°	1664.2	1688.7	1769.9	1887.9	2516.2	4125.2	7347.7	14651.1	14972.9	15182.8	14484.0
70°	1463.4	1484.9	1567.6	1665.7	2100.9	3644.0	6201.5	14090.2	14301.7	14315.5	13751.6
72.5°	1230.5	1250.4	1333.2	1431.2	1743.8	3034.1	4860.7	12761.6	13235.1	13535.5	12522.6
75°	783.0	868.9	1074.2	1184.5	1435.8	2454.9	3467.8	10188.8	11433.1	12291.2	10837.0
77.5°	127.2	142.5	421.4	600.7	835.1	1664.2	1926.2	5645.3	7101.0	10271.5	8749.9
80°	96.5	108.8	153.2	407.6	536.3	1035.9	758.5	1832.7	2209.7	4802.5	4902.1
82.5°	41.4	49.0	91.9	228.3	252.8	275.8	203.8	819.8	970.0	1460.4	1700.9
85°	13.8	18.4	42.9	72.0	79.7	61.3	44.4	324.9	400.0	700.3	648.2
87.5°	0.0	1.5	9.2	10.7	9.2	6.1	4.6	3.1	3.1	4.6	4.6
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°	3737.5	3737.5	3737.5	3737.5	3737.5	3737.5	3737.5	3737.5	3737.5	3737.5	3737.5
2.5°	3735.9	3683.8	3677.7	3614.9	3558.2	3493.8	3454.0	3440.2	3458.6	3477.0	3495.4
5°	3781.9	3702.2	3622.5	3492.3	3434.1	3363.6	3270.1	3213.4	3187.3	3210.3	3218.0
7.5°	3815.6	3712.9	3590.4	3412.6	3286.9	3152.1	3063.2	2968.2	2916.1	2925.3	2933.0
10°	3821.7	3708.4	3499.9	3328.3	3126.0	2940.6	2824.2	2779.7	2744.5	2713.8	2718.4
12.5°	3878.4	3711.4	3423.3	3214.9	3001.9	2762.9	2632.6	2575.9	2569.8	2507.0	2500.8
15°	3955.1	3778.8	3383.5	3112.3	2839.5	2614.2	2459.5	2358.3	2361.4	2329.2	2324.6
17.5°	4079.2	3844.7	3354.4	2992.7	2669.4	2462.5	2266.4	2174.4	2145.3	2136.1	2128.5
20°	4218.6	3941.3	3319.1	2887.0	2520.8	2280.2	2061.0	1967.6	1886.4	1861.8	1864.9
22.5°	4424.0	4068.5	3348.2	2807.3	2355.3	2102.4	1884.8	1702.5	1563.0	1526.2	1521.7
25°	4787.1	4319.8	3435.6	2738.4	2252.6	1929.3	1636.6	1380.7	1196.8	1156.9	1160.0
27.5°	5191.7	4650.8	3556.6	2709.2	2122.3	1737.7	1334.7	1049.7	878.1	832.1	835.1
30°	5671.3	5044.6	3740.5	2628.0	1982.9	1458.8	994.5	769.3	635.9	582.3	585.4
32.5°	6132.6	5438.4	3976.5	2615.8	1808.2	1095.6	718.7	559.3	450.5	410.7	415.3
35°	6641.3	5888.9	4224.8	2554.5	1521.7	786.1	504.2	387.7	329.5	317.2	315.7
37.5°	7217.5	6290.4	4408.6	2497.8	1138.6	553.2	344.8	298.8	291.2	274.3	274.3
40°	7752.3	6708.7	4546.6	2347.6	796.8	375.4	269.7	271.2	263.6	240.6	236.0
42.5°	8245.7	7140.9	4673.7	2107.0	539.4	255.9	242.1	246.7	249.8	223.7	217.6
45°	8805.0	7674.1	4646.2	1745.4	343.3	231.4	217.6	231.4	246.7	220.7	214.5
47.5°	9418.0	8064.9	4704.4	1259.6	242.1	219.1	202.3	220.7	232.9	216.1	206.9
50°	10110.6	8576.7	4528.2	732.5	222.2	206.9	194.6	202.3	220.7	211.5	200.7
52.5°	10745.0	9033.4	4287.6	358.6	209.9	194.6	182.4	188.5	206.9	196.1	199.2
55°	11279.8	9508.4	3798.8	255.9	202.3	180.8	176.2	177.8	188.5	174.7	183.9
57.5°	11935.7	9899.2	3302.3	239.1	196.1	171.6	173.2	160.9	164.0	156.3	147.1
60°	12519.5	10268.5	2628.0	220.7	186.9	176.2	156.3	139.4	130.3	125.7	124.1
62.5°	13103.4	10548.9	1936.9	200.7	177.8	159.4	137.9	119.5	104.2	98.1	96.5
65°	13324.0	10699.1	1322.4	183.9	167.0	145.6	122.6	96.5	79.7	73.6	69.0
67.5°	13160.1	10228.6	766.2	165.5	160.9	133.3	107.3	78.2	61.3	56.7	53.6
70°	12400.0	9490.0	409.1	150.2	141.0	118.0	95.0	64.4	49.0	42.9	41.4
72.5°	11092.9	8161.4	214.5	125.7	118.0	96.5	75.1	53.6	39.8	32.2	30.6
75°	9419.5	6406.9	150.2	91.9	81.2	75.1	56.7	42.9	32.2	24.5	23.0
77.5°	7435.1	4163.5	113.4	59.8	47.5	49.0	41.4	35.2	26.1	18.4	18.4
80°	3840.1	2163.7	85.8	39.8	27.6	29.1	29.1	26.1	19.9	13.8	13.8
82.5°	1523.2	796.8	59.8	23.0	16.9	18.4	16.9	16.9	13.8	9.2	9.2
85°	502.6	174.7	21.5	13.8	10.7	10.7	9.2	7.7	4.6	3.1	3.1
87.5°	4.6	4.6	6.1	7.7	7.7	6.1	4.6	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)