

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: P509844

Luminaire Tested: **VERD-M-CA3-150-740-U-T2-HSS**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509844  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/6/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-M-CA3-150-740-U-T2-HSS  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 4000K, 940mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20248 lumens  
Efficiency: N/A  
Efficacy: 132.3 lumens/watt  
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

Input Watts (W): 153  
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

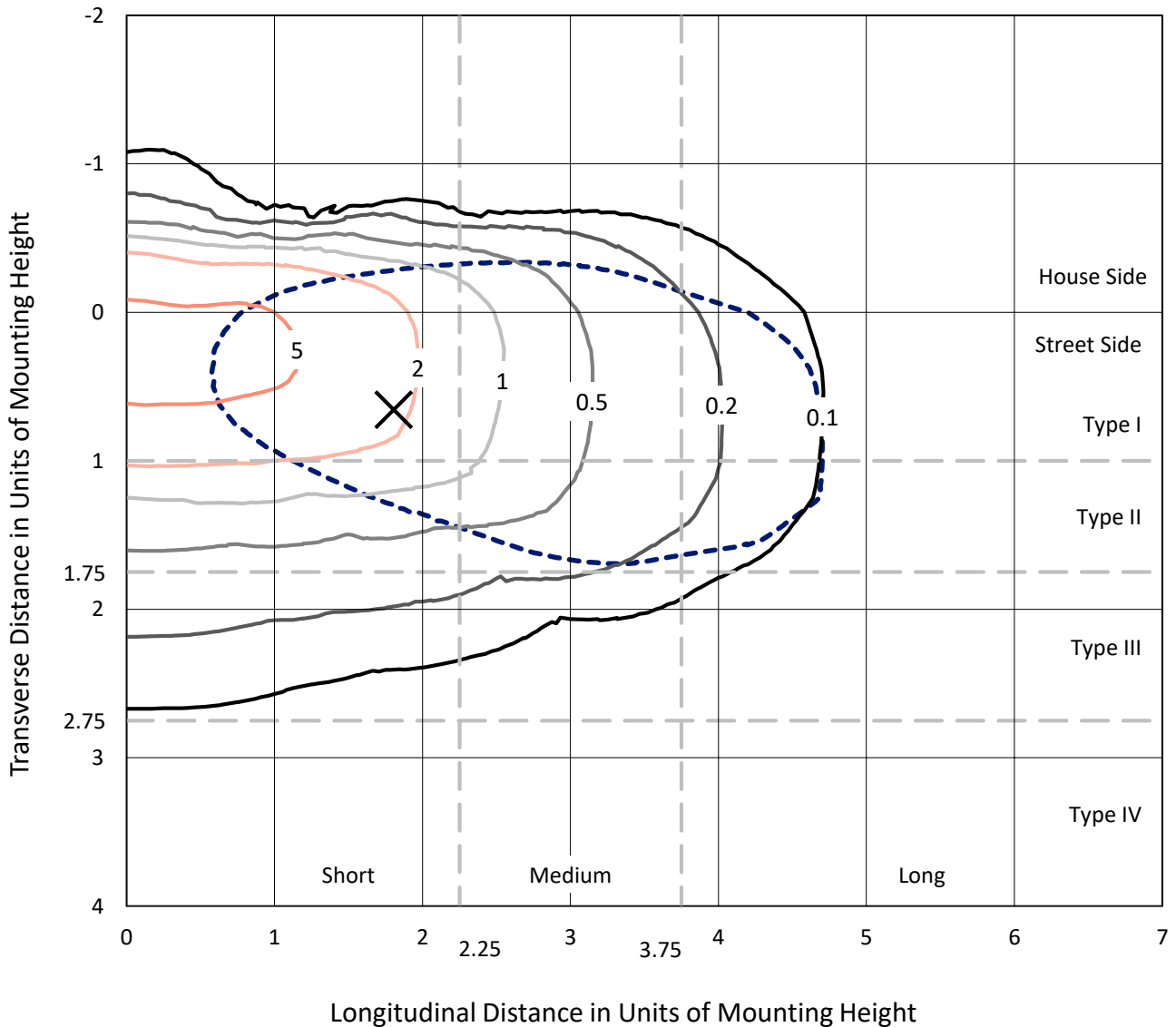


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### Iso-Footcandle Lines of Horizontal Illumination

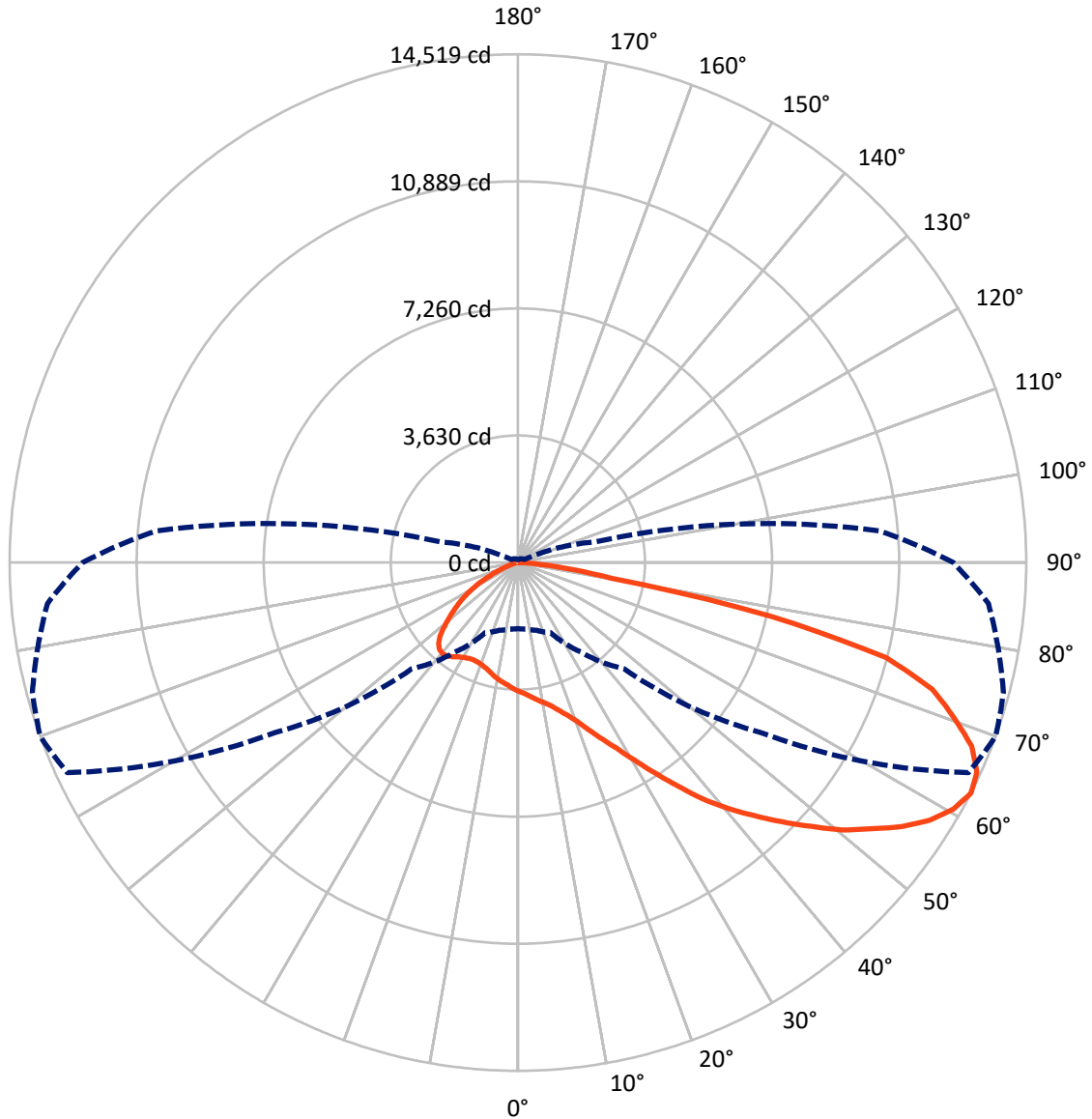
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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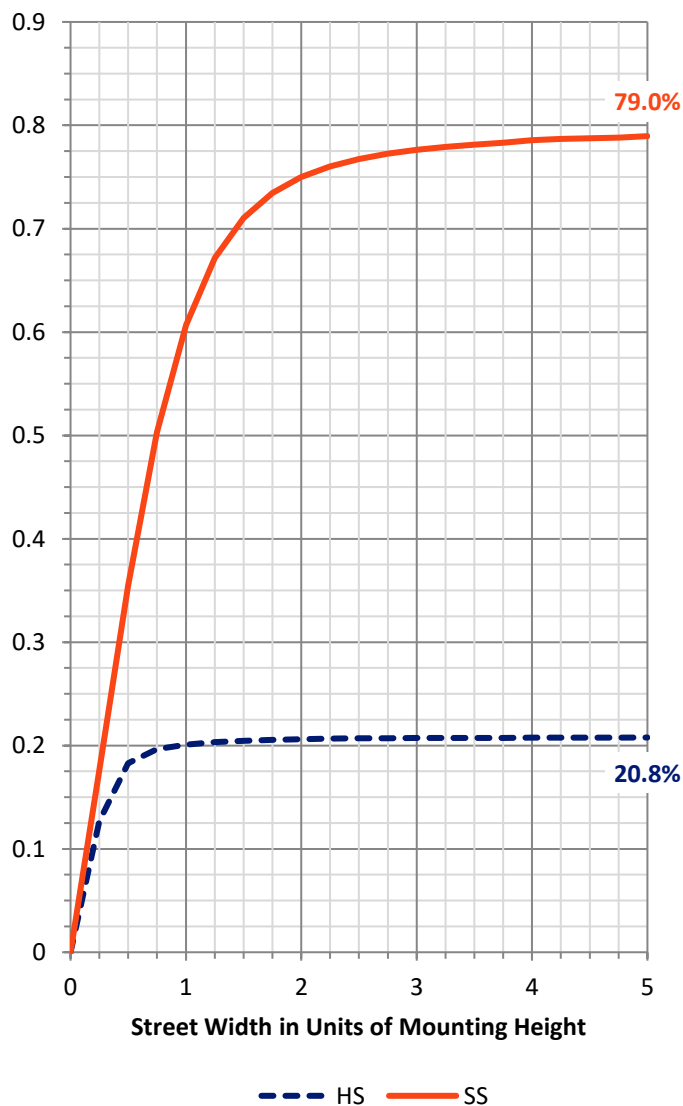
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4257.9	0.0	4257.9
	% Fixture	21.0	0.0	21.0
<b>Street Side</b>	Lumens	15990.0	0.0	15990.0
	% Fixture	79.0	0.0	79.0
<b>Total</b>	Lumens	20248.0	0.0	20248.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	349.5	1.7
10°-20°	1043.0	5.2
20°-30°	1768.2	8.7
30°-40°	2600.2	12.8
40°-50°	3462.6	17.1
50°-60°	4050.5	20.0
60°-70°	4073.9	20.1
70°-80°	2578.8	12.7
80°-90°	321.3	1.6
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°	20248.0	100.0
0°-180°	20248.0	100.0



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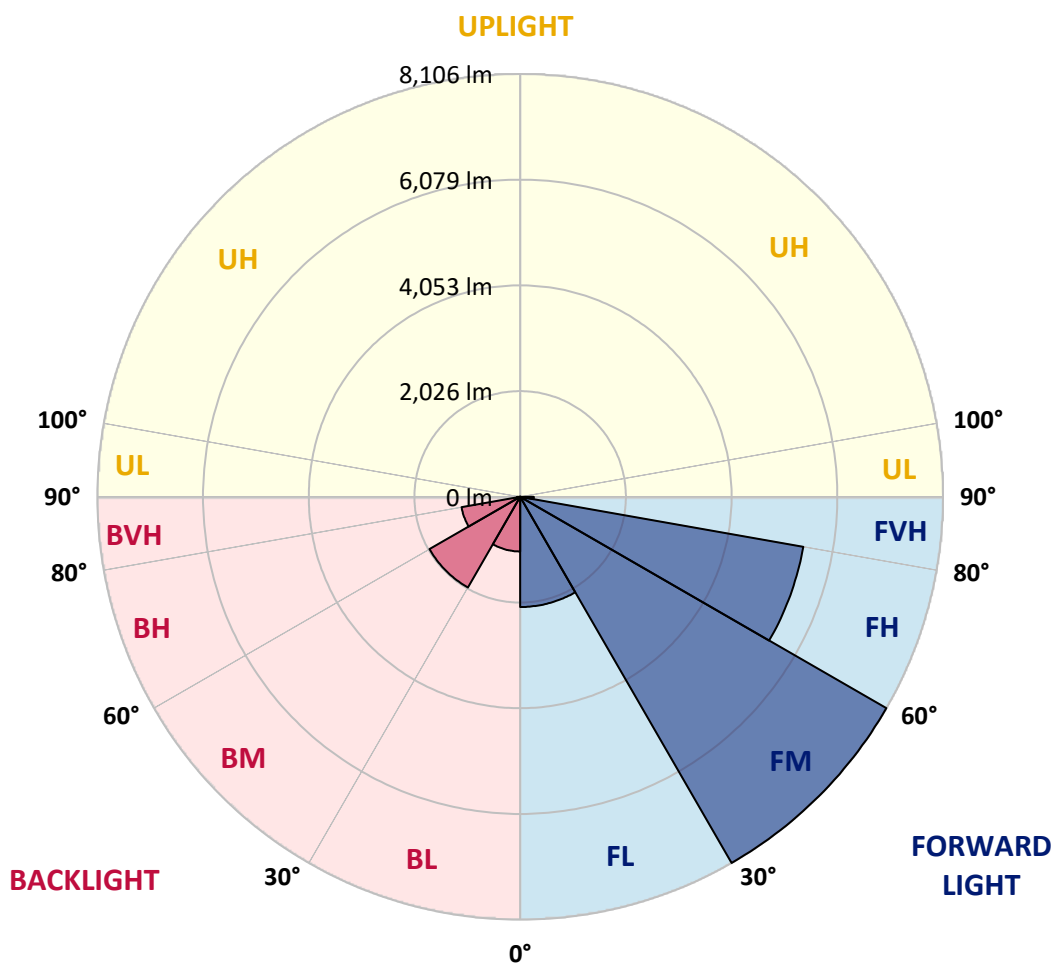
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2112.3	10.4			
FM	(30°-60°)	8105.6	40.0			
FH	(60°-80°)	5511.5	27.2			G3/7500
FVH	(80°-90°)	260.6	1.3			G3/500
BL	(0°-30°)	1048.3	5.2	B3/2500		
BM	(30°-60°)	2007.7	9.9	B2/2500		
BH	(60°-80°)	1141.2	5.6	B3/2500		G3/2500
BVH	(80°-90°)	60.8	0.3			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°	70°	75°	85°
0°	3681.0	3681.0	3681.0	3681.0	3681.0	3681.0	3681.0	3681.0	3681.0	3681.0	3681.0
2.5°	3883.0	3917.0	3891.0	3881.0	3889.0	3849.0	3817.0	3771.0	3749.0	3733.0	3707.0
5°	4080.0	4136.0	4102.0	4081.0	4078.0	4005.0	3962.0	3899.0	3850.0	3807.0	3741.0
7.5°	4288.0	4321.0	4308.0	4284.0	4268.0	4179.0	4103.0	4014.0	3960.0	3903.0	3792.0
10°	4470.0	4510.0	4497.0	4454.0	4439.0	4348.0	4261.0	4140.0	4066.0	3995.0	3842.0
12.5°	4658.1	4703.1	4676.1	4633.1	4620.1	4528.0	4438.0	4291.0	4199.0	4119.0	3907.0
15°	4831.1	4872.1	4853.1	4804.1	4791.1	4713.1	4614.1	4477.0	4377.0	4271.0	3999.0
17.5°	4969.1	5010.1	4986.1	4963.1	4959.1	4882.1	4823.1	4683.1	4588.1	4444.0	4140.0
20°	5070.1	5112.1	5100.1	5111.1	5153.1	5096.1	5060.1	4942.1	4845.1	4689.1	4343.0
22.5°	5150.1	5204.1	5252.1	5274.1	5352.1	5348.1	5340.1	5270.1	5194.1	5032.1	4585.1
25°	5158.1	5220.1	5315.1	5418.1	5560.1	5628.1	5678.1	5667.1	5578.1	5418.1	4920.1
27.5°	5170.1	5234.1	5332.1	5509.1	5763.1	5922.1	6005.1	6056.1	6004.1	5897.1	5301.1
30°	5144.1	5210.1	5333.1	5559.1	5902.1	6197.1	6345.1	6534.1	6540.1	6450.1	5876.1
32.5°	5026.1	5113.1	5262.1	5565.1	6037.1	6484.1	6712.1	7075.1	7154.1	7087.1	6469.1
35°	4829.1	4908.1	5121.1	5512.1	6119.1	6723.1	7140.1	7706.1	7823.1	7819.1	7167.1
37.5°	4611.1	4691.1	4931.1	5387.1	6172.1	6936.1	7517.1	8332.1	8565.1	8516.1	7826.1
40°	4370.0	4454.0	4731.1	5230.1	6146.1	7126.1	7916.1	8939.1	9228.1	9234.1	8456.1
42.5°	4090.0	4159.0	4437.0	5013.1	6060.1	7266.1	8287.1	9578.1	9882.1	9865.1	9050.1
45°	3822.0	3894.0	4137.0	4677.1	5861.1	7344.1	8651.1	10225.1	10558.1	10504.1	9710.1
47.5°	3498.0	3601.0	3878.0	4395.0	5554.1	7338.1	8969.1	10887.1	11261.1	11217.1	10280.1
50°	2692.0	2753.0	3380.0	4104.0	5138.1	7198.1	9280.1	11537.1	12010.1	11924.1	10888.1
52.5°	2425.0	2480.0	2682.0	3755.0	4760.1	6895.1	9539.1	12281.1	12635.1	12568.1	11509.1
55°	2292.0	2322.0	2445.0	3097.0	4391.0	6403.1	9712.1	12942.1	13310.1	13162.1	12090.1
57.5°	2125.0	2162.0	2305.0	2645.0	3937.0	5648.1	9672.1	13538.1	13878.2	13651.1	12602.1
60°	1997.0	2025.0	2159.0	2381.0	3468.0	4866.1	9263.1	14123.2	14294.2	14070.2	13112.1
62.5°	1889.0	1905.0	1999.0	2210.0	3111.0	4295.0	8465.1	14201.2	14519.2	14357.2	13492.1
65°	1755.0	1759.0	1870.0	2035.0	2781.0	3952.0	7780.1	13801.2	14407.2	14353.2	13629.1
67.5°	1598.0	1606.0	1718.0	1844.0	2384.0	3587.0	6713.1	13586.1	13972.2	13938.2	13358.1
70°	1401.0	1417.0	1520.0	1616.0	2019.0	3149.0	5343.1	12736.1	13194.1	13144.1	12465.1
72.5°	1211.0	1202.0	1298.0	1393.0	1682.0	2629.0	4050.0	11273.1	12376.1	12328.1	11305.1
75°	995.0	989.0	1088.0	1178.0	1379.0	2124.0	2849.0	8337.1	10874.1	11022.1	9748.1
77.5°	613.0	618.0	675.0	735.0	934.0	1587.0	1818.0	4638.1	7387.1	8760.1	7650.1
80°	444.0	444.0	486.0	522.0	618.0	967.0	905.0	1934.0	2700.0	4228.0	4771.1
82.5°	288.0	276.0	302.0	333.0	344.0	419.0	414.0	970.0	1376.0	1656.0	1987.0
85°	150.0	166.0	100.0	141.0	149.0	139.0	143.0	455.0	611.0	783.0	862.0
87.5°	23.0	18.0	24.0	33.0	38.0	32.0	28.0	53.0	82.0	109.0	129.0
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°	3681.0	3681.0	3681.0	3681.0	3681.0	3681.0	3681.0	3681.0	3681.0	3681.0	3681.0
2.5°	3690.0	3685.0	3639.0	3572.0	3517.0	3471.0	3441.0	3421.0	3443.0	3403.0	3398.0
5°	3700.0	3666.0	3566.0	3470.0	3396.0	3297.0	3230.0	3185.0	3203.0	3168.0	3154.0
7.5°	3727.0	3665.0	3527.0	3374.0	3234.0	3128.0	3025.0	2926.0	2911.0	2889.0	2890.0
10°	3751.0	3662.0	3482.0	3282.0	3119.0	2932.0	2808.0	2706.0	2683.0	2657.0	2644.0
12.5°	3789.0	3669.0	3426.0	3184.0	2966.0	2750.0	2616.0	2496.0	2473.0	2422.0	2411.0
15°	3865.0	3694.0	3371.0	3063.0	2794.0	2576.0	2403.0	2298.0	2256.0	2199.0	2198.0
17.5°	3964.0	3767.0	3343.0	2949.0	2648.0	2404.0	2221.0	2115.0	2044.0	2010.0	2001.0
20°	4105.0	3862.0	3342.0	2846.0	2496.0	2220.0	2010.0	1890.0	1830.0	1802.0	1785.0
22.5°	4322.0	4002.0	3360.0	2774.0	2343.0	2042.0	1833.0	1668.0	1569.0	1492.0	1503.0
25°	4592.1	4212.0	3401.0	2708.0	2210.0	1872.0	1610.0	1381.0	1204.0	1127.0	1133.0
27.5°	4935.1	4463.0	3507.0	2641.0	2059.0	1689.0	1319.0	1028.0	894.0	804.0	811.0
30°	5374.1	4775.1	3646.0	2589.0	1919.0	1433.0	993.0	758.0	640.0	566.0	559.0
32.5°	5899.1	5227.1	3798.0	2554.0	1766.0	1113.0	716.0	556.0	441.0	399.0	405.0
35°	6549.1	5735.1	4030.0	2503.0	1504.0	792.0	511.0	376.0	317.0	309.0	310.0
37.5°	7142.1	6255.1	4260.0	2417.0	1187.0	563.0	347.0	286.0	273.0	270.0	274.0
40°	7723.1	6729.1	4468.0	2292.0	816.0	386.0	255.0	258.0	247.0	239.0	235.0
42.5°	8267.1	7186.1	4631.1	2062.0	558.0	255.0	226.0	235.0	233.0	217.0	210.0
45°	8854.1	7669.1	4721.1	1740.0	351.0	217.0	203.0	219.0	229.0	211.0	203.0
47.5°	9355.1	8140.1	4717.1	1333.0	238.0	205.0	191.0	205.0	217.0	204.0	197.0
50°	9933.1	8530.1	4589.1	846.0	211.0	190.0	183.0	188.0	204.0	195.0	188.0
52.5°	10575.1	9064.1	4395.0	472.0	200.0	180.0	170.0	176.0	190.0	179.0	183.0
55°	11107.1	9507.1	3939.0	322.0	195.0	168.0	162.0	166.0	172.0	161.0	167.0
57.5°	11582.1	9873.1	3478.0	264.0	188.0	160.0	159.0	151.0	150.0	143.0	137.0
60°	12063.1	10162.1	2856.0	239.0	181.0	161.0	144.0	133.0	124.0	117.0	114.0
62.5°	12432.1	10362.1	2259.0	216.0	171.0	151.0	132.0	114.0	99.0	90.0	90.0
65°	12540.1	10273.1	1590.0	196.0	160.0	142.0	118.0	93.0	75.0	69.0	66.0
67.5°	12194.1	9762.1	1107.0	181.0	149.0	132.0	104.0	76.0	60.0	52.0	50.0
70°	11313.1	8907.1	653.0	160.0	135.0	115.0	95.0	62.0	49.0	41.0	39.0
72.5°	10011.1	7625.1	407.0	136.0	116.0	94.0	71.0	51.0	39.0	32.0	31.0
75°	8269.1	5944.1	266.0	105.0	92.0	74.0	54.0	41.0	34.0	27.0	25.0
77.5°	6631.1	4205.0	238.0	80.0	68.0	53.0	41.0	34.0	28.0	24.0	24.0
80°	3816.0	2400.0	195.0	55.0	42.0	40.0	32.0	28.0	26.0	23.0	22.0
82.5°	1875.0	1153.0	126.0	34.0	24.0	26.0	27.0	25.0	22.0	20.0	20.0
85°	646.0	384.0	51.0	22.0	16.0	16.0	17.0	18.0	17.0	16.0	16.0
87.5°	100.0	73.0	14.0	13.0	10.0	9.0	10.0	11.0	11.0	10.0	10.0
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)