

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: P509846

Luminaire Tested: **VERD-M-CA3-150-740-U-T3-HSS**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509846  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-5)  
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-T3-HSS  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 4000K, 940mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20668 lumens  
Efficiency: N/A  
Efficacy: 135.1 lumens/watt  
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G3

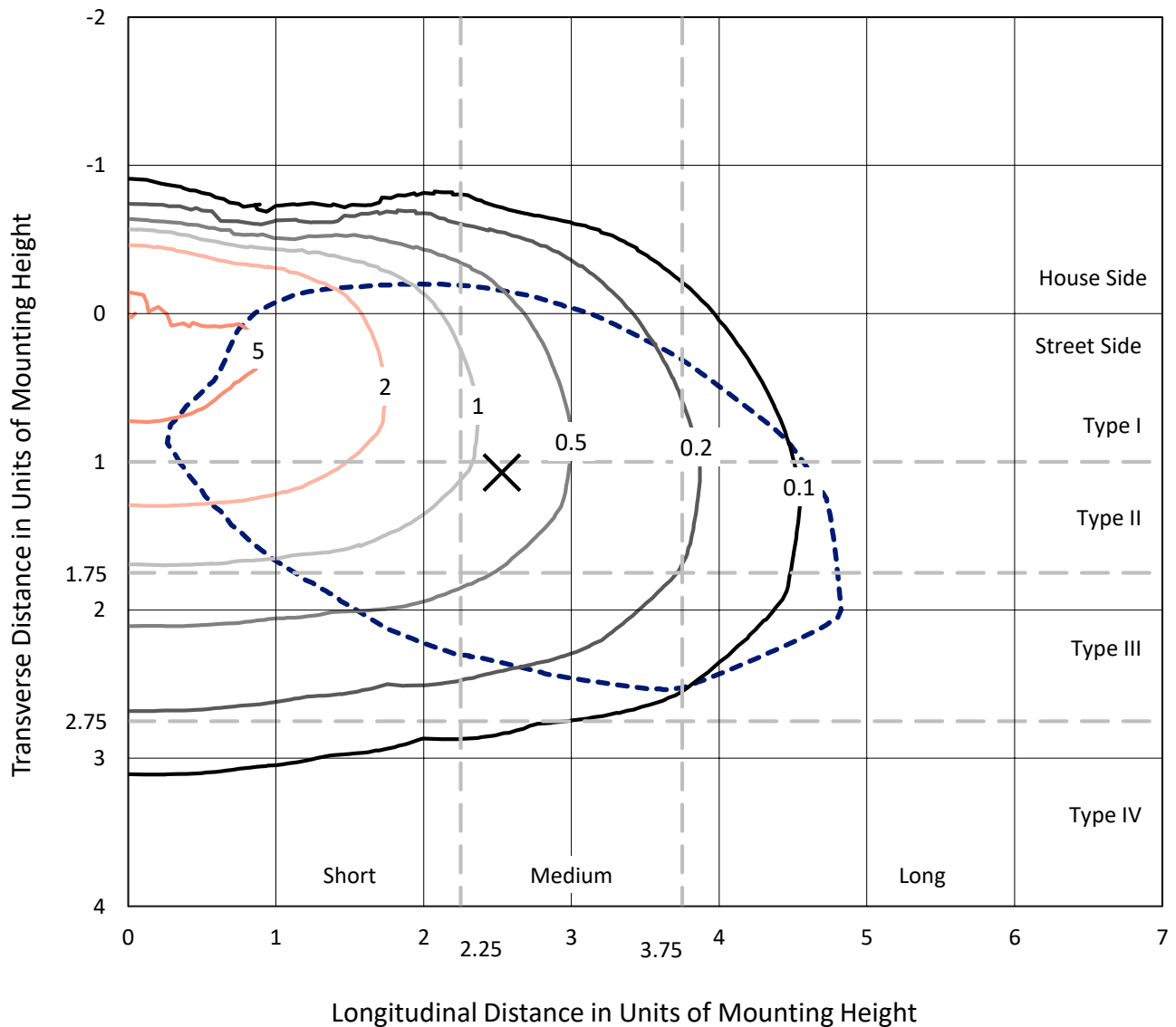
Input Watts (W): 153  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

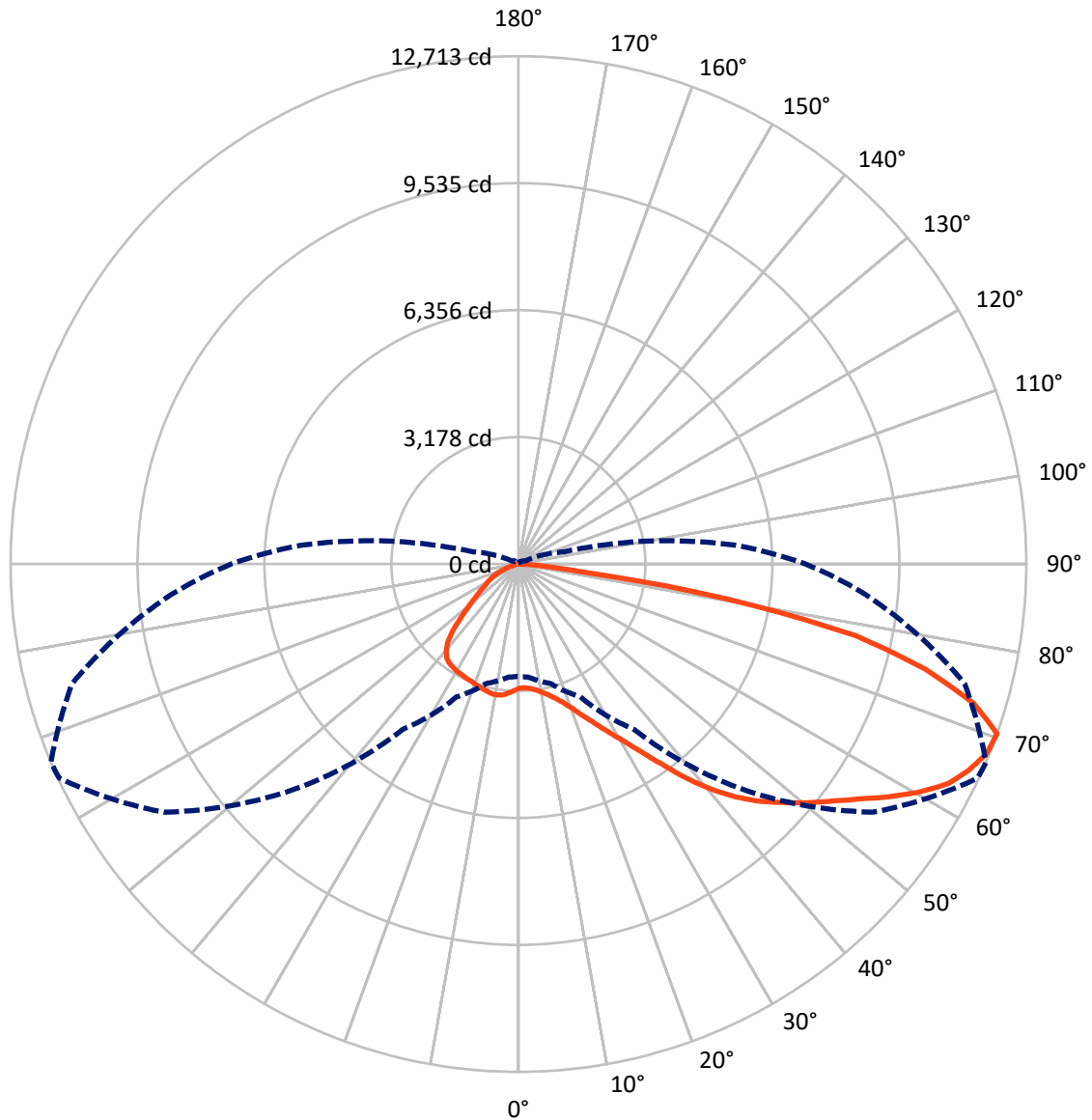
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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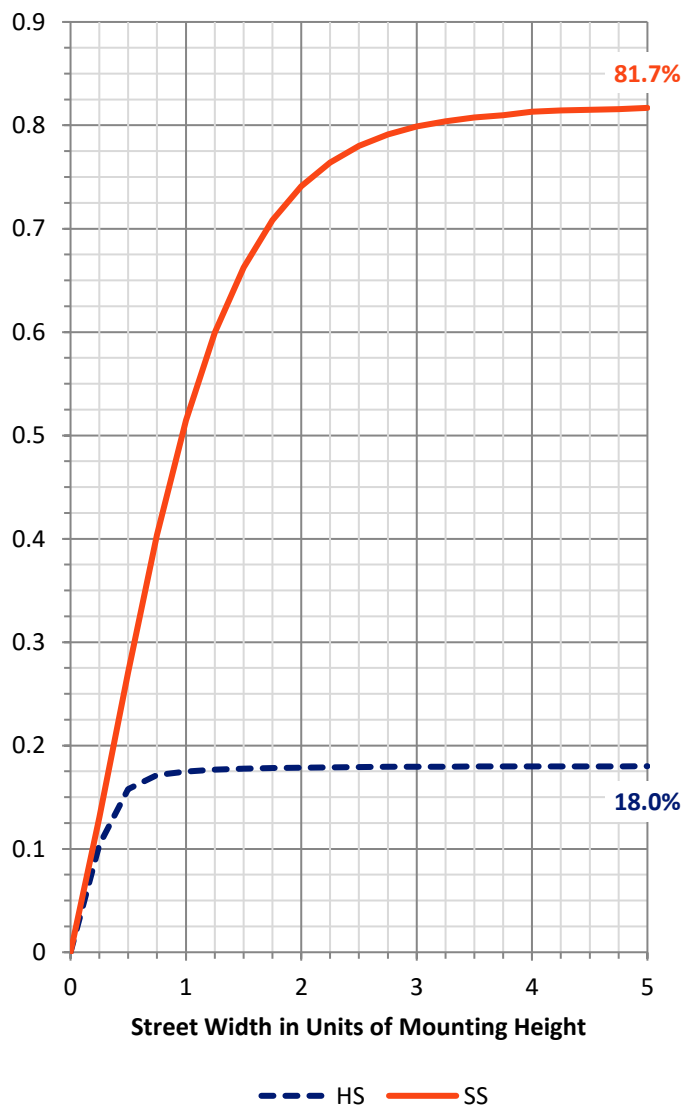
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3765.9	0.0	3765.9
	% Fixture	18.2	0.0	18.2
<b>Street Side</b>	Lumens	16902.1	0.0	16902.1
	% Fixture	81.8	0.0	81.8
<b>Total</b>	Lumens	20668.0	0.0	20668.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	309.7	1.5
10°-20°	966.3	4.7
20°-30°	1676.6	8.1
30°-40°	2490.2	12.0
40°-50°	3416.4	16.5
50°-60°	4195.5	20.3
60°-70°	4498.0	21.8
70°-80°	2855.4	13.8
80°-90°	259.9	1.3
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°	20668.0	100.0
0°-180°	20668.0	100.0

**Coefficient of Utilization**



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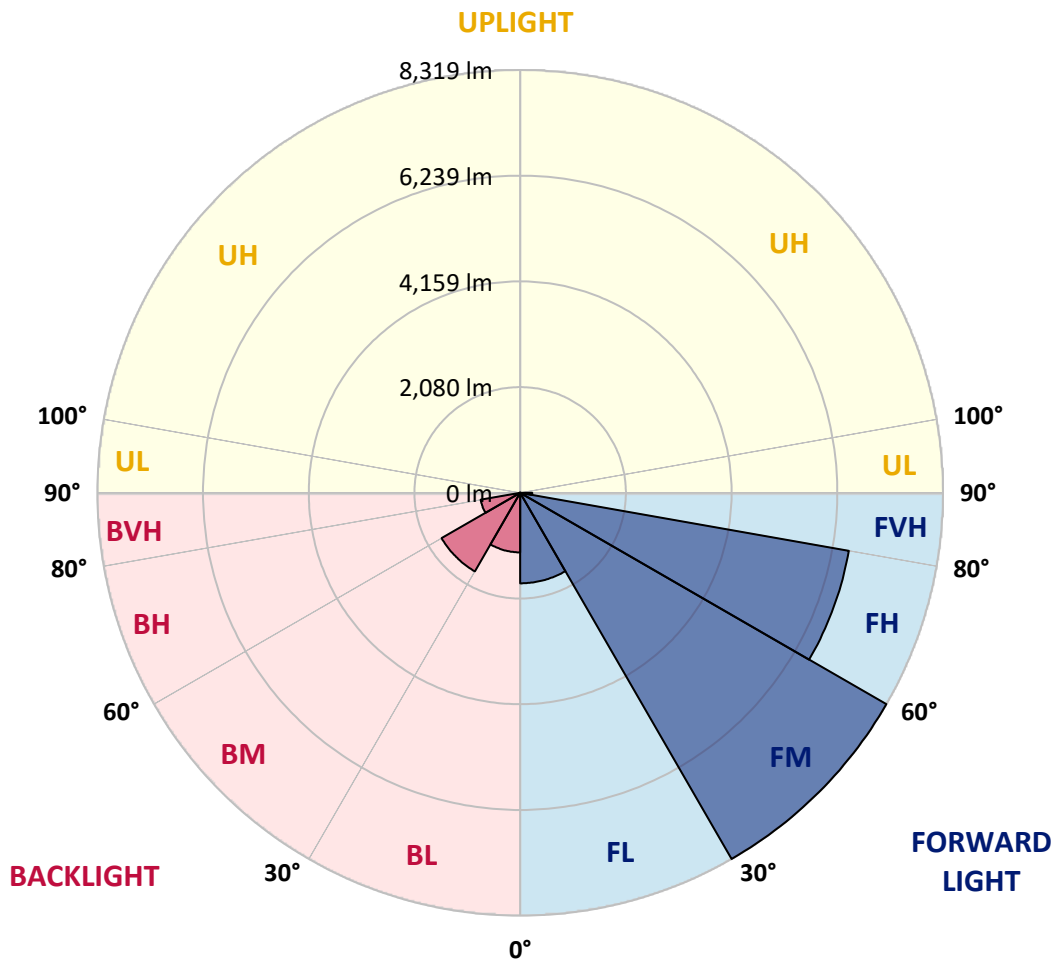
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1780.7	8.6			
FM (30°-60°)	8318.7	40.2			
FH (60°-80°)	6565.7	31.8			G3/7500
FVH (80°-90°)	237.0	1.1			G3/500
BL (0°-30°)	1172.0	5.7	B3/2500		
BM (30°-60°)	1783.4	8.6	B2/2500		
BH (60°-80°)	787.7	3.8	B2/1000		G2/1000
BVH (80°-90°)	22.8	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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3108.9	3108.9	3108.9	3108.9	3108.9	3108.9	3108.9	3108.9	3108.9	3108.9	3108.9
2.5°	3080.9	3109.9	3092.9	3090.9	3110.9	3091.9	3104.9	3101.9	3099.9	3102.9	3123.9
5°	3161.9	3195.9	3172.9	3165.9	3176.9	3142.9	3139.9	3132.9	3130.9	3131.9	3161.9
7.5°	3274.9	3314.9	3305.9	3287.9	3281.9	3225.9	3215.9	3190.9	3182.9	3184.9	3214.9
10°	3452.9	3492.9	3474.9	3434.9	3409.9	3345.9	3309.9	3277.9	3261.9	3263.9	3295.9
12.5°	3680.9	3718.9	3688.9	3615.9	3601.9	3498.9	3442.9	3374.9	3363.9	3347.9	3381.9
15°	3895.9	3928.9	3914.9	3846.9	3808.9	3686.9	3583.9	3499.9	3489.9	3474.9	3473.9
17.5°	4133.9	4166.9	4140.9	4090.9	4040.9	3895.9	3784.9	3676.9	3650.9	3637.9	3590.9
20°	4387.9	4439.9	4434.9	4393.9	4333.9	4163.9	4006.9	3884.9	3856.9	3832.9	3733.9
22.5°	4649.9	4717.9	4702.9	4680.9	4655.9	4464.9	4281.9	4140.9	4119.9	4068.9	3912.9
25°	4939.9	4986.9	4975.9	4986.9	4969.9	4800.9	4600.9	4428.9	4400.9	4352.9	4113.9
27.5°	5220.9	5269.9	5288.9	5265.9	5276.9	5155.9	4918.9	4764.9	4737.9	4649.9	4355.9
30°	5474.9	5535.9	5562.9	5572.9	5609.9	5484.9	5309.9	5122.9	5113.9	5023.9	4674.9
32.5°	5677.9	5745.9	5811.9	5854.9	5913.9	5858.9	5684.9	5571.9	5572.9	5491.9	5153.9
35°	5824.9	5902.9	5998.9	6112.9	6236.9	6213.9	6110.9	6112.9	6128.9	6155.9	5764.9
37.5°	5987.9	6050.9	6163.9	6322.9	6511.9	6559.9	6545.9	6704.9	6782.9	6830.9	6301.9
40°	6084.9	6148.9	6289.9	6503.9	6778.9	6893.8	7022.8	7301.8	7403.8	7353.8	6760.9
42.5°	5977.9	6034.9	6279.9	6649.9	6997.8	7258.8	7489.8	7897.8	7971.8	7808.8	7147.8
45°	5838.9	5912.9	6170.9	6689.9	7191.8	7616.8	7975.8	8416.8	8471.8	8240.8	7489.8
47.5°	5724.9	5789.9	6090.9	6646.9	7370.8	7983.8	8402.8	8906.8	8920.8	8635.8	7843.8
50°	5578.9	5657.9	5971.9	6593.9	7478.8	8308.8	8793.8	9363.8	9394.8	9044.8	8143.8
52.5°	5425.9	5502.9	5827.9	6506.9	7556.8	8578.8	9199.8	9849.8	9852.8	9477.8	8463.8
55°	5199.9	5281.9	5641.9	6380.9	7580.8	8757.8	9607.8	10345.8	10376.8	9916.8	8753.8
57.5°	4960.9	5030.9	5417.9	6184.9	7491.8	8926.8	10026.8	10896.8	10981.8	10411.8	9002.8
60°	4643.9	4713.9	5122.9	5927.9	7302.8	9116.8	10506.8	11560.7	11569.7	10812.8	9183.8
62.5°	4302.9	4363.9	4739.9	5524.9	7009.8	9189.8	10918.8	12091.7	12090.7	11169.8	9273.8
65°	3897.9	3922.9	4305.9	5029.9	6554.9	9082.8	11100.8	12441.7	12407.7	11426.8	9243.8
67.5°	3417.9	3444.9	3734.9	4414.9	5894.9	8664.8	11019.8	12610.7	12644.7	11655.7	9113.8
70°	2809.9	2841.9	3094.9	3668.9	5053.9	7997.8	10829.8	12683.7	12712.7	11563.7	8712.8
72.5°	2074.0	2117.0	2272.0	2730.9	3835.9	6719.9	9949.8	11884.7	11900.7	10795.8	7877.8
75°	1288.0	1367.0	1513.0	1815.0	2488.9	4712.9	8504.8	10624.8	10524.8	9629.8	6518.9
77.5°	515.0	528.0	601.0	850.0	1214.0	2453.9	6164.9	8445.8	8636.8	7704.8	4662.9
80°	300.0	298.0	315.0	396.0	521.0	839.0	2397.9	4737.9	5280.9	4231.9	2098.0
82.5°	242.0	233.0	233.0	254.0	250.0	353.0	786.0	1384.0	1518.0	1347.0	597.0
85°	127.0	124.0	101.0	125.0	125.0	176.0	302.0	392.0	414.0	361.0	224.0
87.5°	32.0	32.0	32.0	39.0	31.0	37.0	51.0	62.0	64.0	52.0	33.0
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°	3108.9	3108.9	3108.9	3108.9	3108.9	3108.9	3108.9	3108.9	3108.9	3108.9	3108.9
2.5°	3131.9	3140.9	3175.9	3170.9	3176.9	3176.9	3186.9	3197.9	3230.9	3211.9	3203.9
5°	3167.9	3185.9	3229.9	3245.9	3269.9	3272.9	3292.9	3299.9	3335.9	3315.9	3315.9
7.5°	3236.9	3257.9	3298.9	3304.9	3315.9	3296.9	3301.9	3279.9	3303.9	3279.9	3280.9
10°	3314.9	3328.9	3356.9	3316.9	3299.9	3254.9	3244.9	3190.9	3209.9	3178.9	3170.9
12.5°	3389.9	3384.9	3363.9	3292.9	3245.9	3171.9	3140.9	3067.9	3063.9	3022.9	3014.9
15°	3460.9	3425.9	3357.9	3247.9	3167.9	3064.9	2990.9	2910.9	2882.9	2835.9	2831.9
17.5°	3547.9	3487.9	3366.9	3204.9	3073.9	2923.9	2818.9	2728.9	2670.9	2627.9	2626.9
20°	3653.9	3561.9	3370.9	3155.9	2976.9	2784.9	2637.9	2523.9	2440.9	2386.9	2385.9
22.5°	3786.9	3661.9	3407.9	3099.9	2852.9	2616.9	2433.9	2237.0	2123.0	2013.0	1993.0
25°	3942.9	3762.9	3439.9	3070.9	2730.9	2441.9	2170.0	1882.0	1705.0	1617.0	1584.0
27.5°	4161.9	3930.9	3486.9	3015.9	2615.9	2226.0	1830.0	1516.0	1303.0	1228.0	1228.0
30°	4414.9	4142.9	3574.9	2982.9	2455.9	1923.0	1457.0	1120.0	922.0	809.0	806.0
32.5°	4800.9	4395.9	3654.9	2911.9	2262.0	1593.0	1054.0	722.0	563.0	493.0	489.0
35°	5355.9	4877.9	3783.9	2840.9	1981.0	1186.0	669.0	414.0	321.0	281.0	279.0
37.5°	5889.9	5336.9	4061.9	2699.9	1582.0	745.0	371.0	239.0	196.0	191.0	189.0
40°	6265.9	5732.9	4257.9	2484.9	1124.0	395.0	215.0	173.0	170.0	168.0	167.0
42.5°	6675.9	6026.9	4396.9	2211.0	667.0	229.0	175.0	156.0	151.0	149.0	149.0
45°	7008.8	6309.9	4422.9	1819.0	336.0	189.0	160.0	142.0	136.0	140.0	141.0
47.5°	7315.8	6576.9	4334.9	1368.0	227.0	176.0	150.0	132.0	128.0	138.0	138.0
50°	7577.8	6802.9	4132.9	1021.0	213.0	166.0	140.0	122.0	121.0	130.0	131.0
52.5°	7838.8	6984.8	3814.9	771.0	202.0	155.0	130.0	113.0	110.0	116.0	117.0
55°	8045.8	7049.8	3578.9	574.0	194.0	145.0	121.0	104.0	97.0	96.0	98.0
57.5°	8159.8	6992.8	3347.9	422.0	185.0	136.0	112.0	92.0	81.0	81.0	81.0
60°	8161.8	6923.8	3100.9	334.0	175.0	126.0	102.0	79.0	68.0	66.0	66.0
62.5°	8139.8	6800.9	2741.9	290.0	164.0	118.0	89.0	67.0	59.0	56.0	56.0
65°	8042.8	6568.9	2306.9	248.0	151.0	112.0	76.0	60.0	53.0	49.0	49.0
67.5°	7740.8	6133.9	1776.0	216.0	139.0	99.0	69.0	54.0	47.0	43.0	42.0
70°	7186.8	5430.9	1172.0	184.0	127.0	88.0	63.0	49.0	42.0	38.0	37.0
72.5°	6257.9	4419.9	589.0	156.0	109.0	81.0	57.0	43.0	36.0	32.0	32.0
75°	4903.9	3067.9	321.0	124.0	86.0	71.0	50.0	36.0	31.0	28.0	28.0
77.5°	3006.9	1521.0	219.0	96.0	65.0	58.0	40.0	30.0	27.0	26.0	26.0
80°	1097.0	498.0	147.0	68.0	49.0	45.0	32.0	26.0	25.0	25.0	25.0
82.5°	396.0	253.0	99.0	46.0	31.0	34.0	26.0	22.0	21.0	22.0	23.0
85°	163.0	111.0	36.0	26.0	17.0	18.0	16.0	15.0	16.0	17.0	17.0
87.5°	25.0	22.0	13.0	13.0	10.0	9.0	7.0	8.0	10.0	12.0	12.0
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)