

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: P510014

Luminaire Tested: **VERD-M-CA4-190-722-U-T3-HSS**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510014  
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-CA4-190-722-U-T3-HSS  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(4) 70 CRI, 2200K, 870mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21045 lumens  
Efficiency: N/A  
Efficacy: 109.0 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

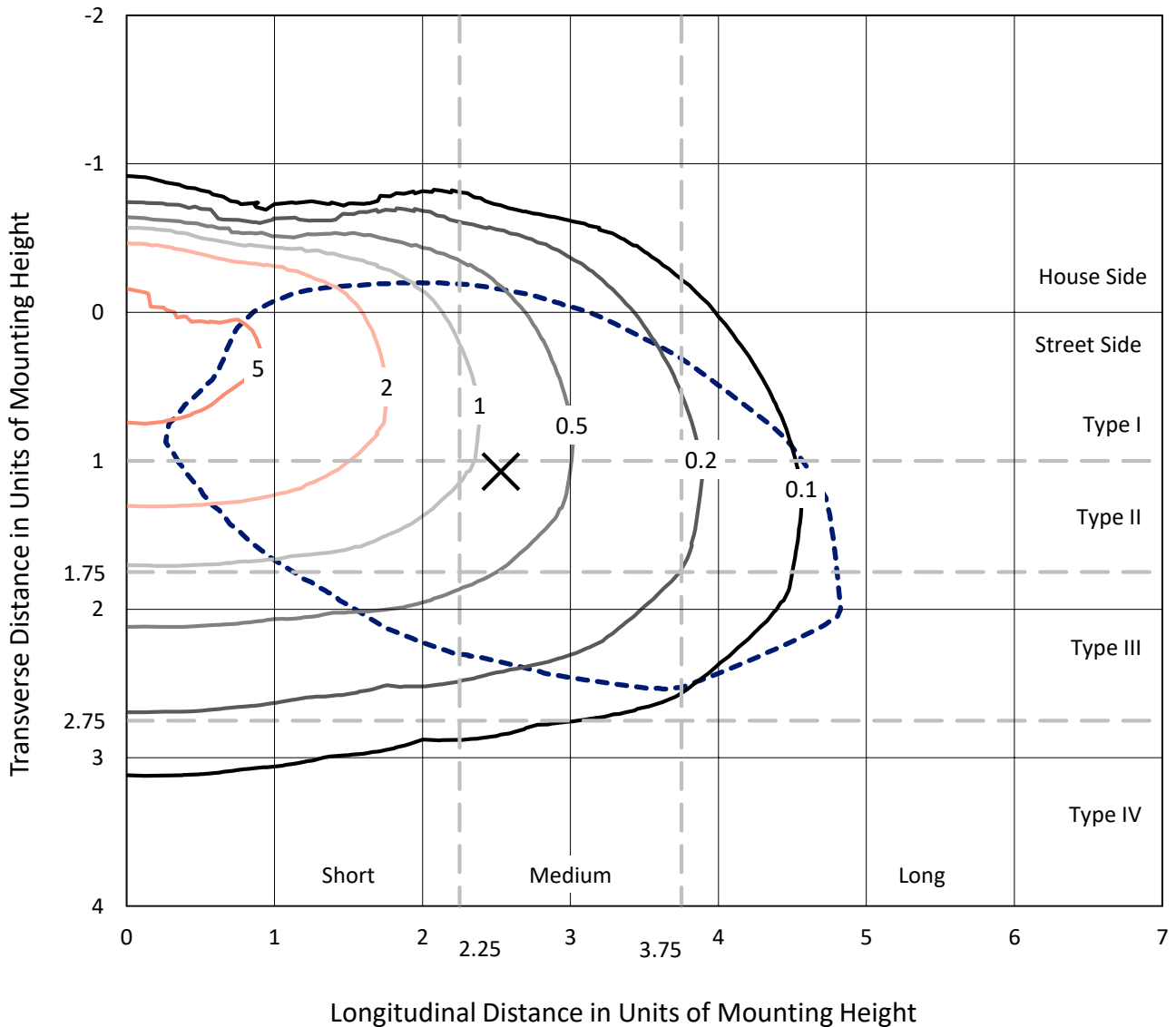
Input Watts (W): 193.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

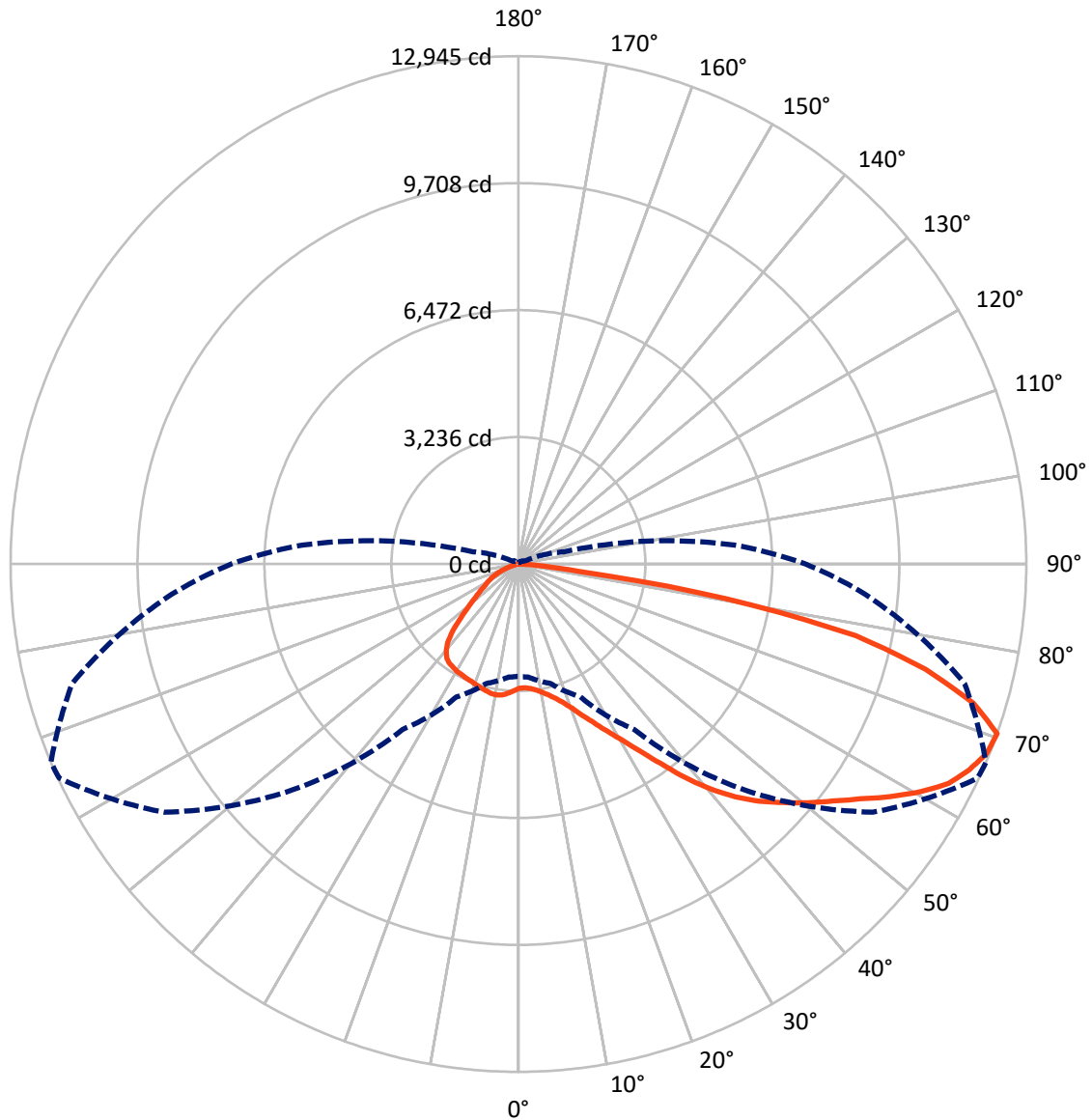
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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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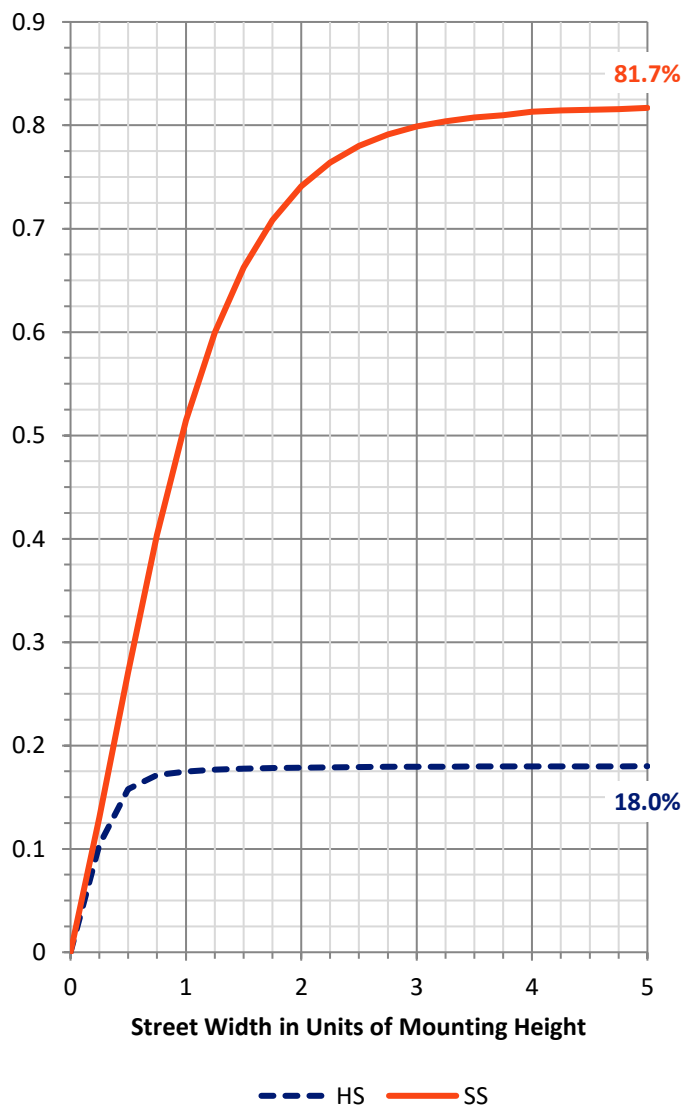
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3834.6	0.0	3834.6
	% Fixture	18.2	0.0	18.2
<b>Street Side</b>	Lumens	17210.4	0.0	17210.4
	% Fixture	81.8	0.0	81.8
<b>Total</b>	Lumens	21045.0	0.0	21045.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	315.4	1.5
10°-20°	984.0	4.7
20°-30°	1707.2	8.1
30°-40°	2535.6	12.0
40°-50°	3478.7	16.5
50°-60°	4272.0	20.3
60°-70°	4580.1	21.8
70°-80°	2907.5	13.8
80°-90°	264.6	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°	21045.0	100.0
0°-180°	21045.0	100.0

**Coefficient of Utilization**



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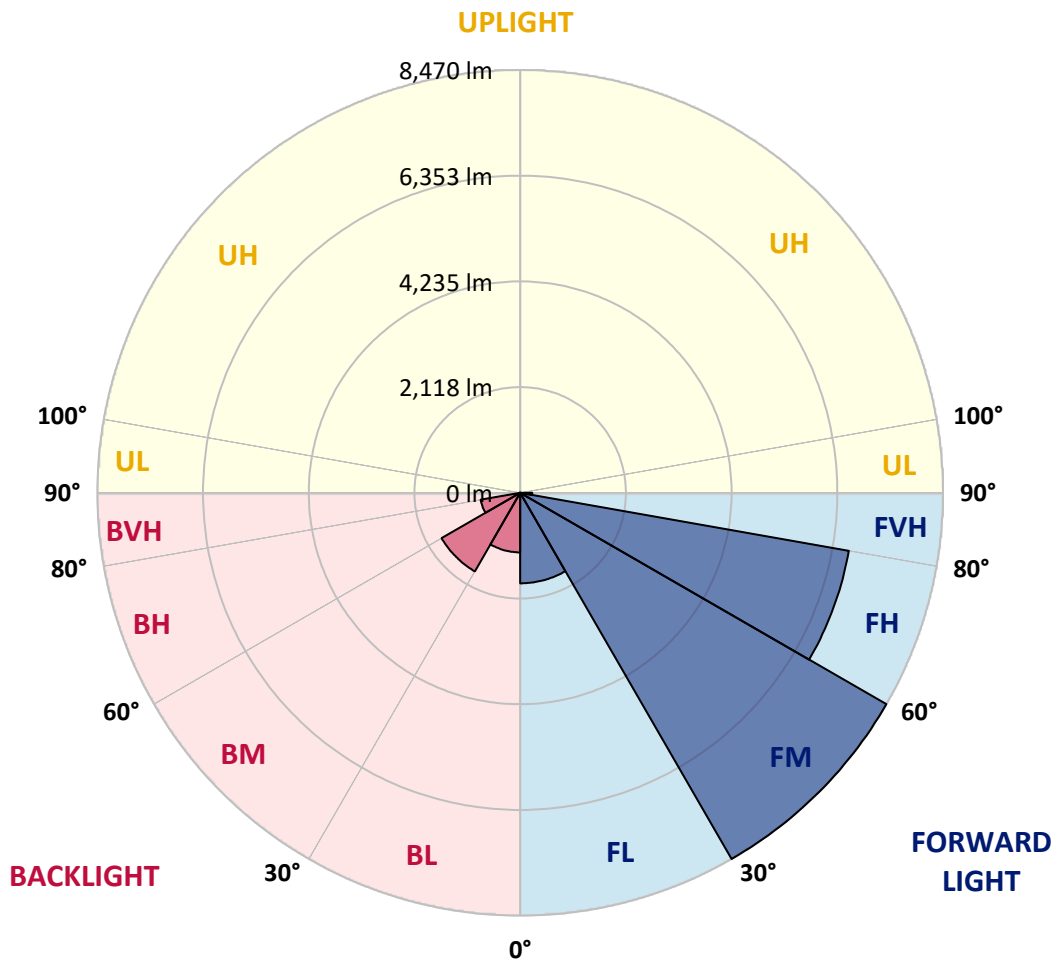
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1813.2	8.6			
FM (30°-60°)	8470.4	40.2			
FH (60°-80°)	6685.5	31.8			G3/7500
FVH (80°-90°)	241.3	1.1			G3/500
BL (0°-30°)	1193.4	5.7	B3/2500		
BM (30°-60°)	1815.9	8.6	B2/2500		
BH (60°-80°)	802.1	3.8	B2/1000		G2/1000
BVH (80°-90°)	23.3	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°	3165.6	3165.6	3165.6	3165.6	3165.6	3165.6	3165.6	3165.6	3165.6	3165.6	3165.6
2.5°	3137.1	3166.7	3149.3	3147.3	3167.7	3148.3	3161.6	3158.5	3156.5	3159.5	3180.9
5°	3219.6	3254.2	3230.8	3223.7	3234.9	3200.3	3197.2	3190.1	3188.0	3189.1	3219.6
7.5°	3334.7	3375.4	3366.2	3347.9	3341.8	3284.8	3274.6	3249.1	3241.0	3243.0	3273.6
10°	3515.9	3556.6	3538.3	3497.6	3472.1	3407.0	3370.3	3337.7	3321.4	3323.5	3356.0
12.5°	3748.1	3786.8	3756.2	3681.9	3667.6	3562.7	3505.7	3436.5	3425.3	3409.0	3443.6
15°	3967.0	4000.6	3986.3	3917.1	3878.4	3754.2	3649.3	3563.8	3553.6	3538.3	3537.3
17.5°	4209.3	4242.9	4216.4	4165.5	4114.6	3967.0	3854.0	3744.0	3717.5	3704.3	3656.4
20°	4467.9	4520.9	4515.8	4474.1	4413.0	4239.9	4080.0	3955.8	3927.3	3902.8	3802.0
22.5°	4734.7	4804.0	4788.7	4766.3	4740.8	4546.3	4360.0	4216.4	4195.1	4143.1	3984.3
25°	5030.0	5077.9	5066.7	5077.9	5060.5	4888.5	4684.8	4509.7	4481.2	4432.3	4189.0
27.5°	5316.1	5366.0	5385.4	5361.9	5373.1	5249.9	5008.6	4851.8	4824.3	4734.7	4435.4
30°	5574.7	5636.9	5664.3	5674.5	5712.2	5584.9	5406.7	5216.3	5207.2	5115.5	4760.2
32.5°	5781.4	5850.7	5917.9	5961.7	6021.7	5965.7	5788.6	5673.5	5674.5	5592.1	5247.9
35°	5931.1	6010.5	6108.3	6224.4	6350.6	6327.2	6222.3	6224.4	6240.7	6268.2	5870.0
37.5°	6097.1	6161.2	6276.3	6438.2	6630.6	6679.5	6665.3	6827.2	6906.6	6955.5	6416.8
40°	6195.9	6261.0	6404.6	6622.5	6902.5	7019.6	7150.9	7435.0	7538.9	7488.0	6884.2
42.5°	6086.9	6144.9	6394.4	6771.2	7125.5	7391.2	7626.5	8041.9	8117.2	7951.3	7278.2
45°	5945.4	6020.7	6283.4	6811.9	7323.0	7755.8	8121.3	8570.3	8626.3	8391.1	7626.5
47.5°	5829.3	5895.5	6202.0	6768.1	7505.3	8129.5	8556.1	9069.3	9083.5	8793.3	7986.9
50°	5680.6	5761.1	6080.8	6714.1	7615.3	8460.4	8954.2	9534.6	9566.2	9209.8	8292.4
52.5°	5524.9	5603.3	5934.2	6625.5	7694.7	8735.3	9367.6	10029.5	10032.5	9650.7	8618.2
55°	5294.7	5378.2	5744.8	6497.3	7719.1	8917.6	9783.0	10534.5	10566.1	10097.7	8913.5
57.5°	5051.4	5122.7	5516.7	6297.7	7628.5	9089.6	10209.7	11095.5	11182.1	10601.7	9167.0
60°	4728.6	4799.9	5216.3	6036.0	7436.0	9283.1	10698.4	11771.6	11780.8	11010.0	9351.3
62.5°	4381.4	4443.5	4826.4	5625.7	7137.7	9357.4	11117.9	12312.3	12311.3	11373.5	9443.0
65°	3969.0	3994.5	4384.4	5121.6	6674.4	9248.5	11303.2	12668.7	12634.1	11635.2	9412.4
67.5°	3480.3	3507.8	3803.0	4495.4	6002.4	8822.9	11220.8	12840.8	12875.4	11868.4	9280.0
70°	2861.2	2893.8	3151.4	3735.8	5146.1	8143.7	11027.3	12915.1	12944.6	11774.7	8871.7
72.5°	2111.8	2155.6	2313.4	2780.8	3905.9	6842.4	10131.3	12101.5	12117.8	10992.7	8021.5
75°	1311.5	1391.9	1540.6	1848.1	2534.3	4798.9	8659.9	10818.6	10716.7	9805.4	6637.8
77.5°	524.4	537.6	611.9	865.5	1236.1	2498.7	6277.3	8599.9	8794.4	7845.4	4748.0
80°	305.5	303.4	320.7	403.2	530.5	854.3	2441.7	4824.3	5377.2	4309.1	2136.2
82.5°	246.4	237.2	237.2	258.6	254.6	359.4	800.3	1409.2	1545.7	1371.5	607.9
85°	129.3	126.3	102.8	127.3	127.3	179.2	307.5	399.1	421.5	367.6	228.1
87.5°	32.6	32.6	32.6	39.7	31.6	37.7	51.9	63.1	65.2	52.9	33.6
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°	3165.6	3165.6	3165.6	3165.6	3165.6	3165.6	3165.6	3165.6	3165.6	3165.6	3165.6
2.5°	3189.1	3198.2	3233.9	3228.8	3234.9	3234.9	3245.1	3256.3	3289.9	3270.5	3262.4
5°	3225.7	3244.0	3288.8	3305.1	3329.6	3332.6	3353.0	3360.1	3396.8	3376.4	3376.4
7.5°	3296.0	3317.4	3359.1	3365.2	3376.4	3357.1	3362.2	3339.8	3364.2	3339.8	3340.8
10°	3375.4	3389.6	3418.2	3377.4	3360.1	3314.3	3304.1	3249.1	3268.5	3236.9	3228.8
12.5°	3451.8	3446.7	3425.3	3353.0	3305.1	3229.8	3198.2	3123.9	3119.8	3078.1	3069.9
15°	3524.1	3488.4	3419.2	3307.2	3225.7	3120.8	3045.5	2964.0	2935.5	2887.7	2883.6
17.5°	3612.6	3551.5	3428.3	3263.4	3130.0	2977.3	2870.4	2778.7	2719.7	2675.9	2674.9
20°	3720.6	3626.9	3432.4	3213.5	3031.2	2835.7	2686.1	2570.0	2485.5	2430.5	2429.5
22.5°	3856.0	3728.7	3470.1	3156.5	2905.0	2664.7	2478.3	2277.8	2161.7	2049.7	2029.3
25°	4014.8	3831.6	3502.7	3126.9	2780.8	2486.5	2209.5	1916.3	1736.1	1646.5	1612.9
27.5°	4237.8	4002.6	3550.5	3070.9	2663.7	2266.6	1863.3	1543.6	1326.7	1250.4	1250.4
30°	4495.4	4218.5	3640.1	3037.3	2500.7	1958.0	1483.5	1140.4	938.8	823.7	820.7
32.5°	4888.5	4476.1	3721.6	2965.1	2303.2	1622.0	1073.2	735.2	573.3	502.0	497.9
35°	5453.6	4966.9	3852.9	2892.8	2017.1	1207.6	681.2	421.5	326.8	286.1	284.1
37.5°	5997.3	5434.2	4136.0	2749.2	1610.8	758.6	377.8	243.4	199.6	194.5	192.4
40°	6380.2	5837.4	4335.6	2530.3	1144.5	402.2	218.9	176.2	173.1	171.1	170.0
42.5°	6797.6	6136.8	4477.1	2251.3	679.2	233.2	178.2	158.8	153.8	151.7	151.7
45°	7136.7	6425.0	4503.6	1852.1	342.1	192.4	162.9	144.6	138.5	142.6	143.6
47.5°	7449.3	6696.8	4414.0	1392.9	231.1	179.2	152.7	134.4	130.3	140.5	140.5
50°	7716.1	6926.9	4208.3	1039.6	216.9	169.0	142.6	124.2	123.2	132.4	133.4
52.5°	7981.8	7112.3	3884.5	785.0	205.7	157.8	132.4	115.1	112.0	118.1	119.1
55°	8192.6	7178.4	3644.2	584.5	197.5	147.6	123.2	105.9	98.8	97.7	99.8
57.5°	8308.7	7120.4	3409.0	429.7	188.4	138.5	114.0	93.7	82.5	82.5	82.5
60°	8310.7	7050.1	3157.5	340.1	178.2	128.3	103.9	80.4	69.2	67.2	67.2
62.5°	8288.3	6924.9	2792.0	295.3	167.0	120.1	90.6	68.2	60.1	57.0	57.0
65°	8189.5	6688.7	2349.0	252.5	153.8	114.0	77.4	61.1	54.0	49.9	49.9
67.5°	7882.0	6245.8	1808.4	219.9	141.5	100.8	70.3	55.0	47.9	43.8	42.8
70°	7317.9	5529.9	1193.4	187.4	129.3	89.6	64.1	49.9	42.8	38.7	37.7
72.5°	6372.0	4500.5	599.7	158.8	111.0	82.5	58.0	43.8	36.7	32.6	32.6
75°	4993.3	3123.9	326.8	126.3	87.6	72.3	50.9	36.7	31.6	28.5	28.5
77.5°	3061.8	1548.7	223.0	97.7	66.2	59.1	40.7	30.5	27.5	26.5	26.5
80°	1117.0	507.1	149.7	69.2	49.9	45.8	32.6	26.5	25.5	25.5	25.5
82.5°	403.2	257.6	100.8	46.8	31.6	34.6	26.5	22.4	21.4	22.4	23.4
85°	166.0	113.0	36.7	26.5	17.3	18.3	16.3	15.3	16.3	17.3	17.3
87.5°	25.5	22.4	13.2	13.2	10.2	9.2	7.1	8.1	10.2	12.2	12.2
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)