

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: P509910

Luminaire Tested: **VERD-M-CA3-160-760-U-T3-HSS**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509910  
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-CA3-160-760-U-T3-HSS  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 5700K, 1000mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

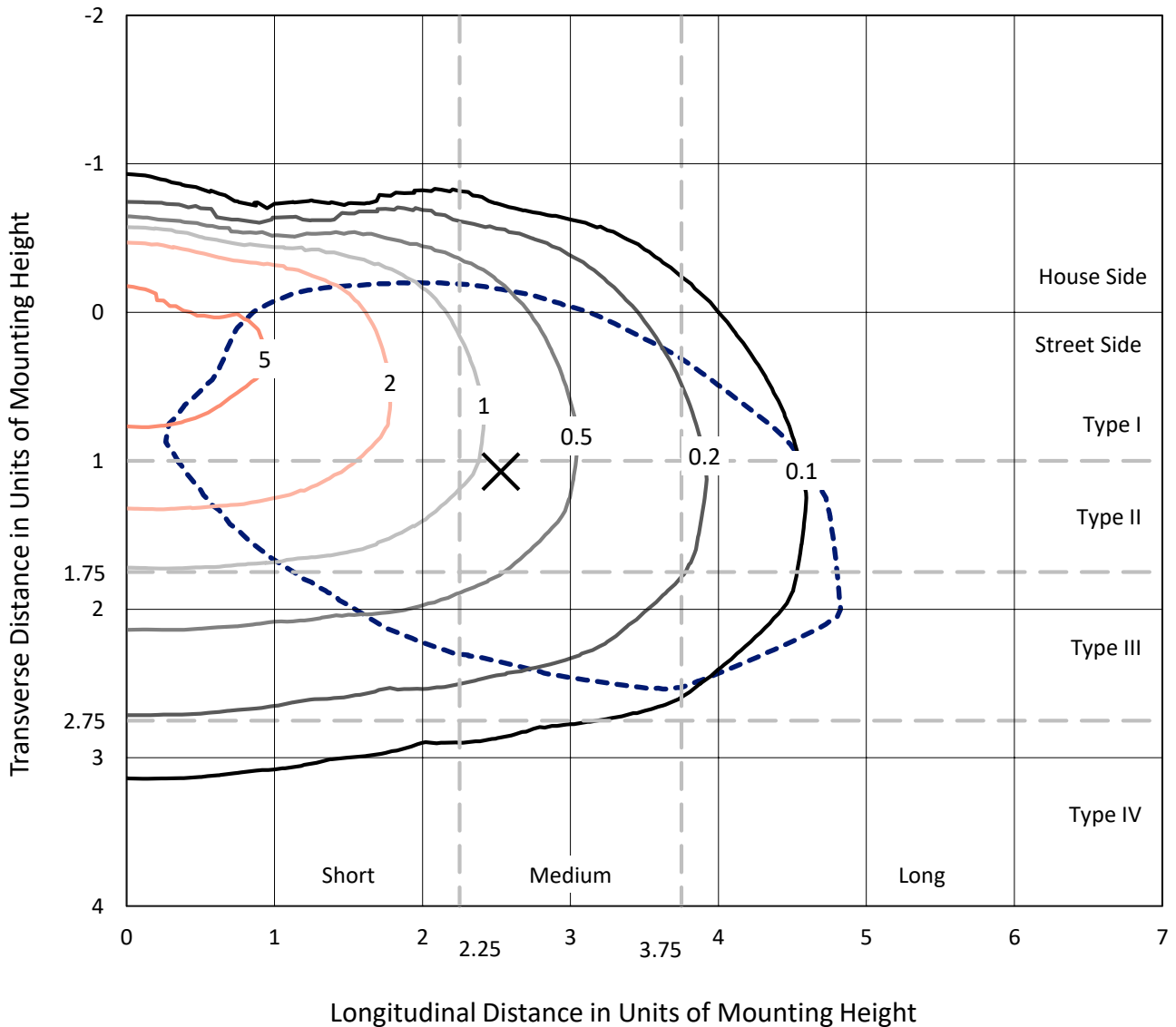
Lumens per Lamp: N/A  
Luminaire Lumens: 21708 lumens  
Efficiency: N/A  
Efficacy: 133.4 lumens/watt  
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 162.7  
Input Voltage (V): NR  
Input Current (Ain): 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

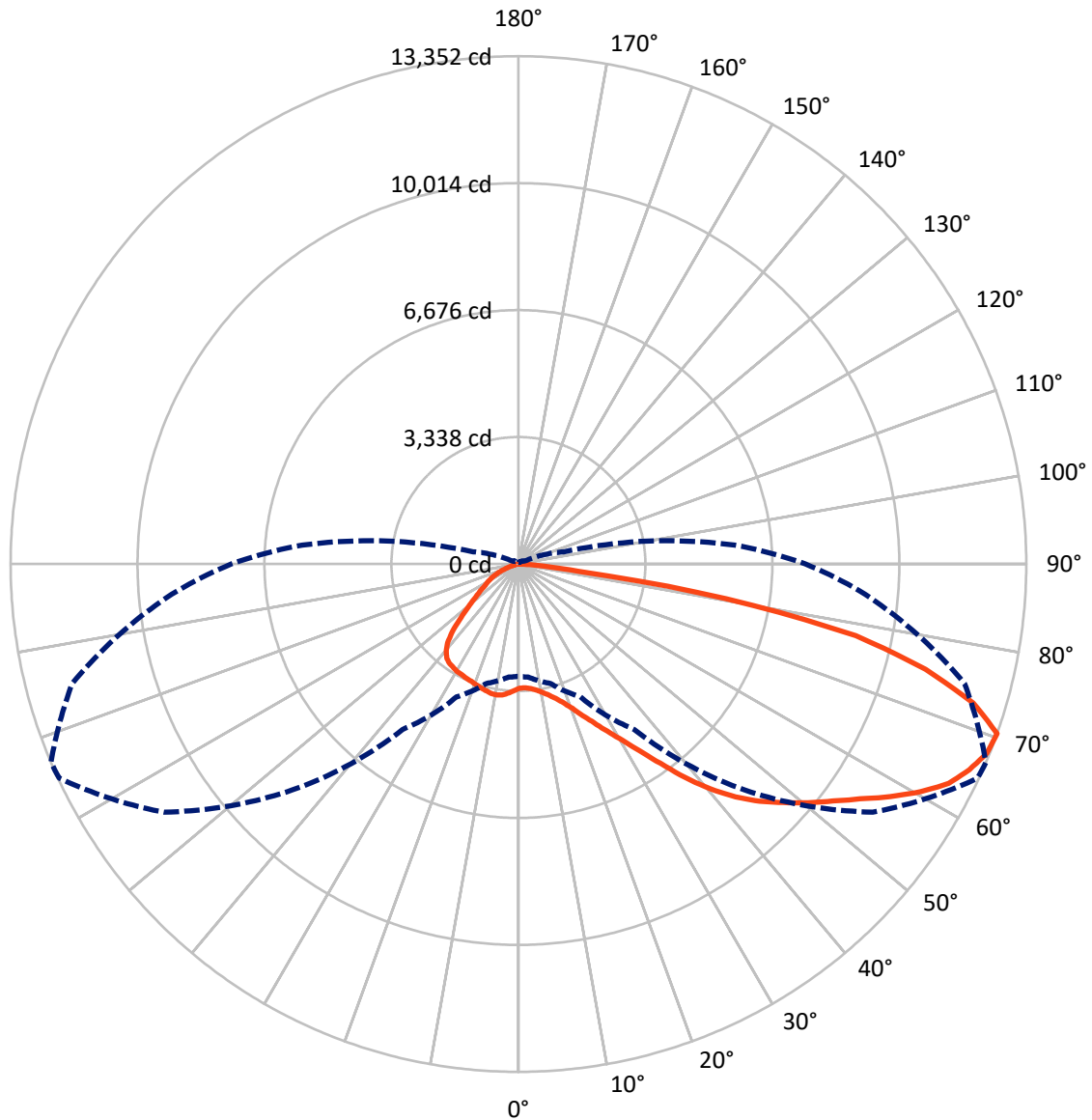
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 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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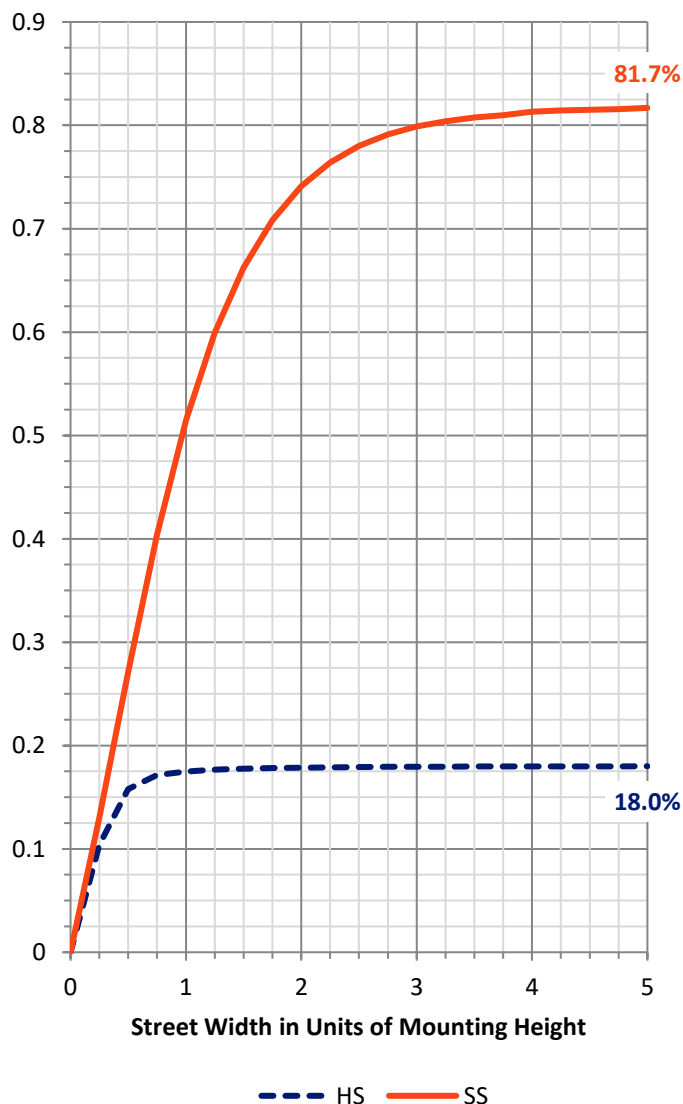
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3955.4	0.0	3955.4
	% Fixture	18.2	0.0	18.2
<b>Street Side</b>	Lumens	17752.6	0.0	17752.6
	% Fixture	81.8	0.0	81.8
<b>Total</b>	Lumens	21708.0	0.0	21708.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	325.3	1.5
10°-20°	1015.0	4.7
20°-30°	1761.0	8.1
30°-40°	2615.5	12.0
40°-50°	3588.3	16.5
50°-60°	4406.6	20.3
60°-70°	4724.3	21.8
70°-80°	2999.1	13.8
80°-90°	272.9	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°	21708.0	100.0
0°-180°	21708.0	100.0

**Coefficient of Utilization**



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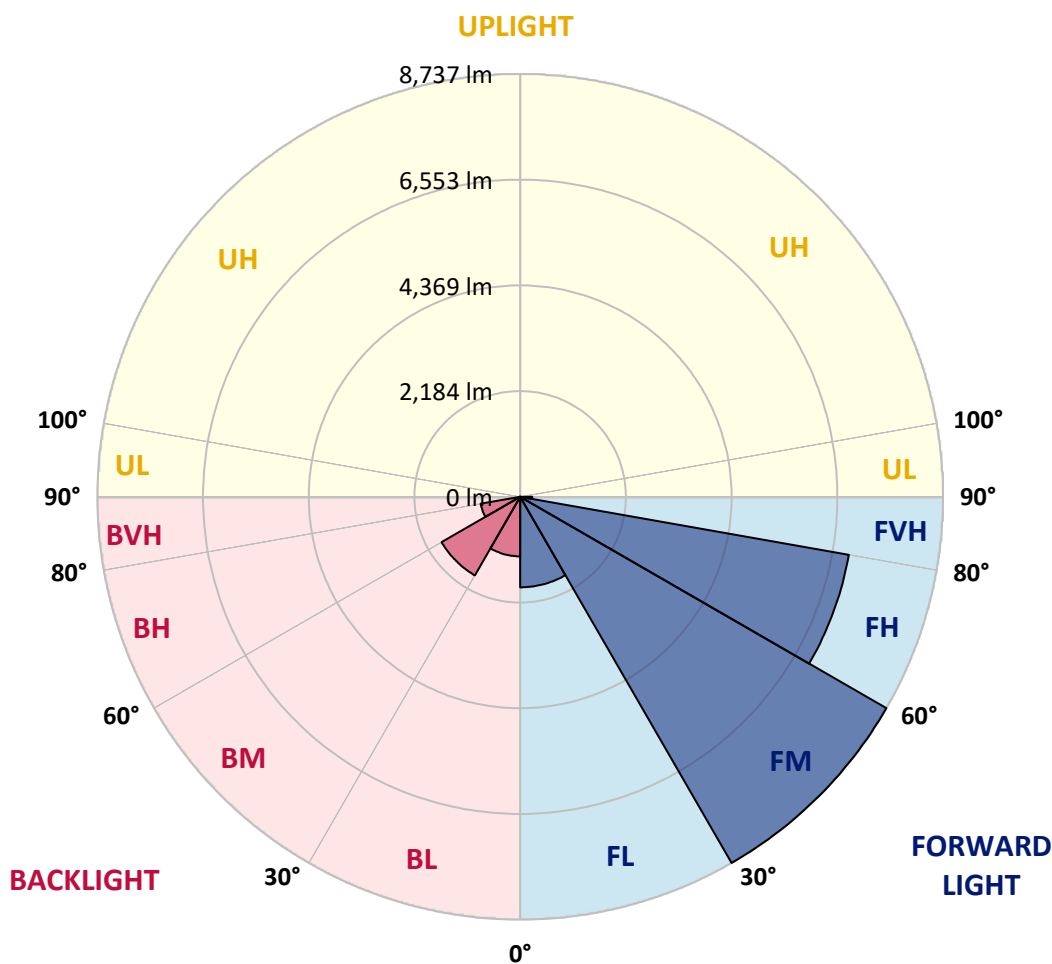
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1870.3	8.6			
FM (30°-60°)	8737.3	40.2			
FH (60°-80°)	6896.1	31.8			G3/7500
FVH (80°-90°)	248.9	1.1			G3/500
BL (0°-30°)	1231.0	5.7	B3/2500		
BM (30°-60°)	1873.1	8.6	B2/2500		
BH (60°-80°)	827.3	3.8	B2/1000		G2/1000
BVH (80°-90°)	24.0	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°	3265.4	3265.4	3265.4	3265.4	3265.4	3265.4	3265.4	3265.4	3265.4	3265.4	3265.4
2.5°	3236.0	3266.4	3248.6	3246.5	3267.5	3247.5	3261.2	3258.0	3255.9	3259.1	3281.1
5°	3321.0	3356.7	3332.6	3325.2	3336.8	3301.1	3297.9	3290.6	3288.5	3289.5	3321.0
7.5°	3439.7	3481.7	3472.3	3453.4	3447.1	3388.3	3377.8	3351.5	3343.1	3345.2	3376.7
10°	3626.7	3668.7	3649.8	3607.8	3581.5	3514.3	3476.5	3442.9	3426.1	3428.2	3461.8
12.5°	3866.1	3906.1	3874.5	3797.9	3783.2	3675.0	3616.2	3544.8	3533.2	3516.4	3552.1
15°	4092.0	4126.6	4111.9	4040.5	4000.6	3872.4	3764.3	3676.0	3665.5	3649.8	3648.7
17.5°	4341.9	4376.6	4349.3	4296.8	4244.2	4092.0	3975.4	3861.9	3834.6	3821.0	3771.6
20°	4608.7	4663.3	4658.1	4615.0	4552.0	4373.4	4208.5	4080.4	4051.0	4025.8	3921.8
22.5°	4883.9	4955.3	4939.5	4916.4	4890.2	4689.6	4497.4	4349.3	4327.2	4273.7	4109.8
25°	5188.5	5237.8	5226.3	5237.8	5220.0	5042.5	4832.4	4651.8	4622.4	4571.9	4320.9
27.5°	5483.6	5535.1	5555.0	5530.9	5542.4	5415.3	5166.4	5004.7	4976.3	4883.9	4575.1
30°	5750.4	5814.4	5842.8	5853.3	5892.2	5760.9	5577.1	5380.7	5371.2	5276.7	4910.1
32.5°	5963.6	6035.0	6104.3	6149.5	6211.5	6153.7	5970.9	5852.3	5853.3	5768.2	5413.2
35°	6118.0	6199.9	6300.7	6420.5	6550.7	6526.5	6418.4	6420.5	6437.3	6465.6	6055.0
37.5°	6289.2	6355.3	6474.0	6641.0	6839.5	6889.9	6875.2	7042.2	7124.2	7174.6	6619.0
40°	6391.1	6458.3	6606.4	6831.1	7120.0	7240.7	7376.2	7669.3	7776.4	7723.9	7101.1
42.5°	6278.7	6338.5	6595.9	6984.5	7350.0	7624.1	7866.7	8295.2	8373.0	8201.8	7507.5
45°	6132.7	6210.4	6481.4	7026.5	7553.7	8000.1	8377.2	8840.3	8898.1	8655.5	7866.7
47.5°	6012.9	6081.2	6397.4	6981.3	7741.7	8385.6	8825.6	9355.0	9369.7	9070.4	8238.5
50°	5859.6	5942.6	6272.4	6925.7	7855.2	8726.9	9236.3	9835.0	9867.5	9499.9	8553.6
52.5°	5698.9	5779.8	6121.1	6834.3	7937.1	9010.5	9662.7	10345.4	10348.6	9954.7	8889.7
55°	5461.5	5547.7	5925.8	6701.9	7962.3	9198.5	10091.2	10866.4	10898.9	10415.8	9194.3
57.5°	5210.5	5284.0	5690.5	6496.1	7868.8	9376.0	10531.3	11445.1	11534.4	10935.7	9455.8
60°	4877.6	4951.1	5380.7	6226.2	7670.3	9575.6	11035.5	12142.5	12151.9	11356.9	9645.9
62.5°	4519.4	4583.5	4978.4	5802.9	7362.6	9652.2	11468.2	12700.2	12699.1	11731.8	9740.4
65°	4094.1	4120.3	4522.6	5283.0	6884.7	9539.8	11659.3	13067.8	13032.1	12001.7	9708.9
67.5°	3589.9	3618.3	3922.9	4637.1	6191.5	9100.8	11574.3	13245.3	13281.0	12242.3	9572.4
70°	2951.3	2984.9	3250.7	3853.5	5308.2	8400.3	11374.7	13322.0	13352.4	12145.6	9151.2
72.5°	2178.3	2223.5	2386.3	2868.4	4028.9	7058.0	10450.4	12482.8	12499.6	11339.0	8274.2
75°	1352.8	1435.8	1589.1	1906.3	2614.2	4950.0	8932.8	11159.4	11054.4	10114.4	6846.9
77.5°	540.9	554.6	631.2	892.8	1275.1	2577.4	6475.1	8870.8	9071.4	8092.5	4897.5
80°	315.1	313.0	330.8	415.9	547.2	881.2	2518.6	4976.3	5546.6	4444.9	2203.5
82.5°	254.2	244.7	244.7	266.8	262.6	370.8	825.5	1453.6	1594.3	1414.7	627.0
85°	133.4	130.2	106.1	131.3	131.3	184.9	317.2	411.7	434.8	379.2	235.3
87.5°	33.6	33.6	33.6	41.0	32.6	38.9	53.6	65.1	67.2	54.6	34.7
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°	3265.4	3265.4	3265.4	3265.4	3265.4	3265.4	3265.4	3265.4	3265.4	3265.4	3265.4
2.5°	3289.5	3299.0	3335.7	3330.5	3336.8	3336.8	3347.3	3358.8	3393.5	3373.6	3365.1
5°	3327.3	3346.2	3392.5	3409.3	3434.5	3437.6	3458.6	3466.0	3503.8	3482.8	3482.8
7.5°	3399.8	3421.9	3464.9	3471.2	3482.8	3462.8	3468.1	3445.0	3470.2	3445.0	3446.0
10°	3481.7	3496.4	3525.8	3483.8	3466.0	3418.7	3408.2	3351.5	3371.5	3338.9	3330.5
12.5°	3560.5	3555.3	3533.2	3458.6	3409.3	3331.5	3299.0	3222.3	3218.1	3175.0	3166.6
15°	3635.1	3598.3	3526.9	3411.4	3327.3	3219.2	3141.4	3057.4	3028.0	2978.6	2974.4
17.5°	3726.5	3663.4	3536.3	3366.2	3228.6	3071.1	2960.8	2866.3	2805.3	2760.2	2759.1
20°	3837.8	3741.2	3540.5	3314.7	3126.7	2925.1	2770.7	2650.9	2563.8	2507.1	2506.0
22.5°	3977.5	3846.2	3579.4	3255.9	2996.5	2748.6	2556.4	2349.5	2229.8	2114.2	2093.2
25°	4141.3	3952.3	3613.0	3225.5	2868.4	2564.8	2279.1	1976.7	1790.8	1698.3	1663.7
27.5°	4371.3	4128.7	3662.4	3167.7	2747.6	2338.0	1922.0	1592.2	1368.5	1289.8	1289.8
30°	4637.1	4351.4	3754.8	3133.0	2579.5	2019.7	1530.3	1176.3	968.4	849.7	846.5
32.5°	5042.5	4617.1	3838.8	3058.5	2375.8	1673.1	1107.0	758.3	591.3	517.8	513.6
35°	5625.4	5123.3	3974.3	2983.9	2080.6	1245.7	702.6	434.8	337.1	295.1	293.0
37.5°	6186.2	5605.4	4266.3	2835.8	1661.6	782.5	389.7	251.0	205.9	200.6	198.5
40°	6581.2	6021.3	4472.2	2610.0	1180.5	414.9	225.8	181.7	178.6	176.4	175.4
42.5°	7011.8	6330.1	4618.2	2322.2	700.5	240.5	183.8	163.8	158.6	156.5	156.5
45°	7361.5	6627.4	4645.5	1910.5	352.9	198.5	168.0	149.1	142.8	147.0	148.1
47.5°	7684.0	6907.8	4553.0	1436.8	238.4	184.9	157.5	138.6	134.4	144.9	144.9
50°	7959.1	7145.2	4340.9	1072.4	223.7	174.3	147.0	128.1	127.1	136.5	137.6
52.5°	8233.3	7336.3	4006.9	809.8	212.2	162.8	136.5	118.7	115.5	121.8	122.9
55°	8450.7	7404.6	3759.0	602.9	203.8	152.3	127.1	109.2	101.9	100.8	102.9
57.5°	8570.4	7344.7	3516.4	443.2	194.3	142.8	117.6	96.6	85.1	85.1	85.1
60°	8572.5	7272.3	3257.0	350.8	183.8	132.3	107.1	83.0	71.4	69.3	69.3
62.5°	8549.4	7143.1	2879.9	304.6	172.2	123.9	93.5	70.4	62.0	58.8	58.8
65°	8447.5	6899.4	2423.0	260.5	158.6	117.6	79.8	63.0	55.7	51.5	51.5
67.5°	8130.3	6442.5	1865.3	226.9	146.0	104.0	72.5	56.7	49.4	45.2	44.1
70°	7548.5	5704.2	1230.9	193.3	133.4	92.4	66.2	51.5	44.1	39.9	38.9
72.5°	6572.8	4642.3	618.6	163.8	114.5	85.1	59.9	45.2	37.8	33.6	33.6
75°	5150.7	3222.3	337.1	130.2	90.3	74.6	52.5	37.8	32.6	29.4	29.4
77.5°	3158.2	1597.5	230.0	100.8	68.3	60.9	42.0	31.5	28.4	27.3	27.3
80°	1152.2	523.0	154.4	71.4	51.5	47.3	33.6	27.3	26.3	26.3	26.3
82.5°	415.9	265.7	104.0	48.3	32.6	35.7	27.3	23.1	22.1	23.1	24.2
85°	171.2	116.6	37.8	27.3	17.9	18.9	16.8	15.8	16.8	17.9	17.9
87.5°	26.3	23.1	13.7	13.7	10.5	9.5	7.4	8.4	10.5	12.6	12.6
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)