

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: P510246

Luminaire Tested: **VERD-M-CA4-230-760-U-T3-HSS**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510246  
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-CA4-230-760-U-T3-HSS  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(4) 70 CRI, 5700K, 1050mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30168 lumens  
Efficiency: N/A  
Efficacy: 129.3 lumens/watt  
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

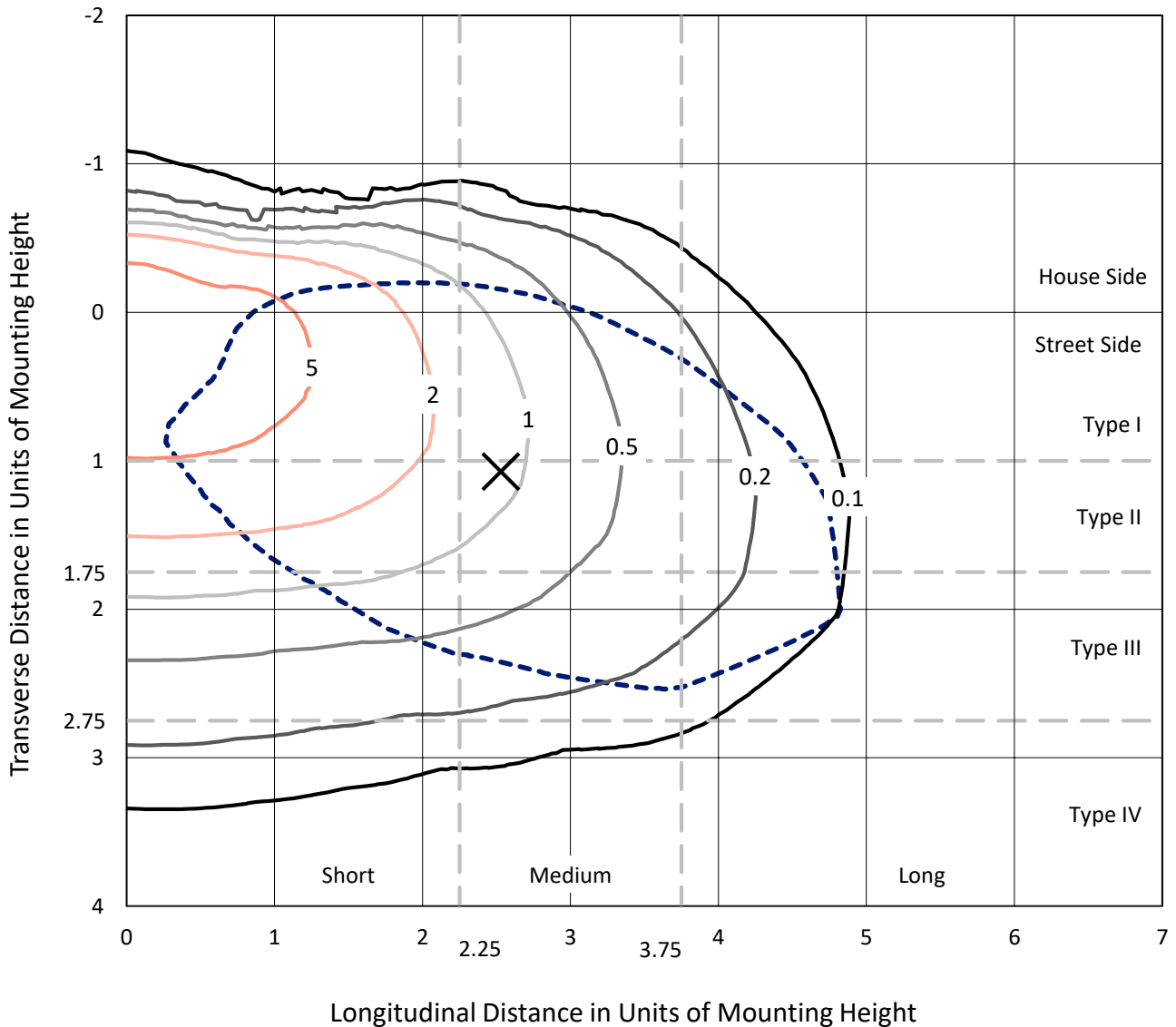
Input Watts (W): 233.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

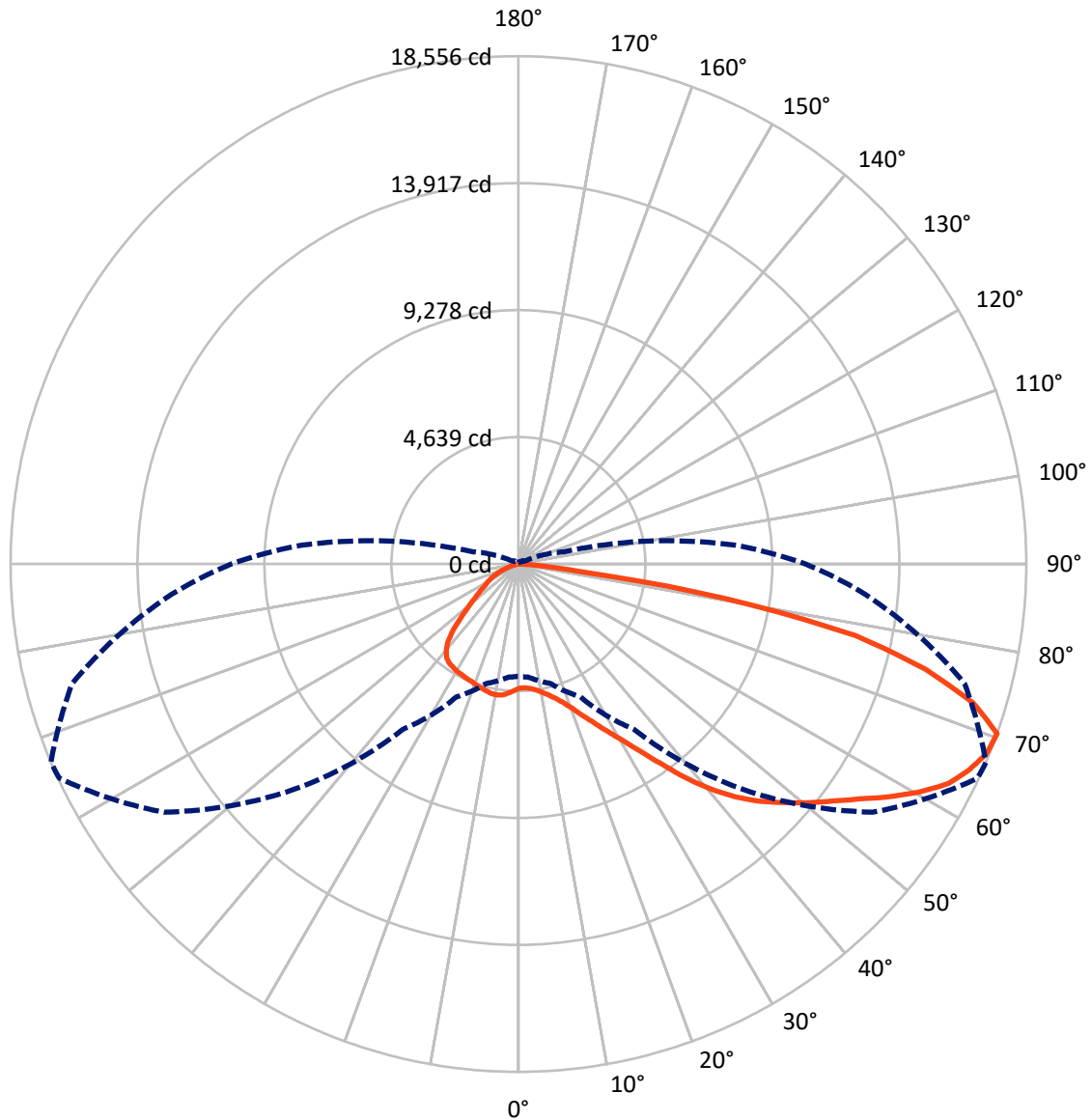
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 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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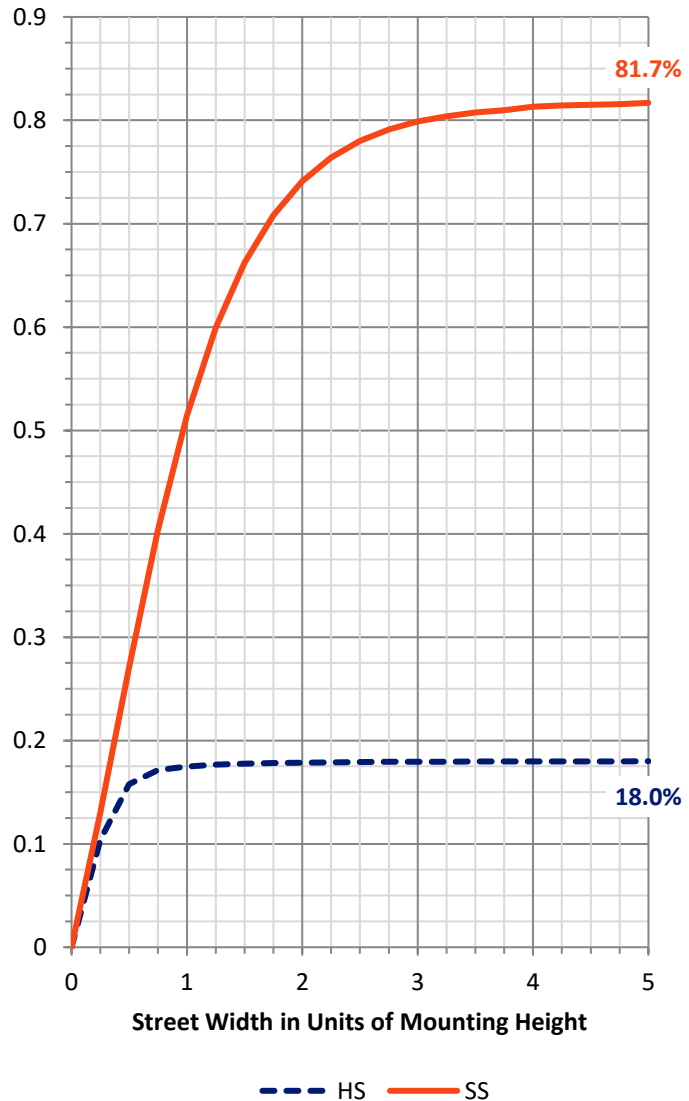
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5496.9	0.0	5496.9
	% Fixture	18.2	0.0	18.2
<b>Street Side</b>	Lumens	24671.2	0.0	24671.2
	% Fixture	81.8	0.0	81.8
<b>Total</b>	Lumens	30168.0	0.0	30168.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	452.1	1.5
10°-20°	1410.5	4.7
20°-30°	2447.3	8.1
30°-40°	3634.8	12.0
40°-50°	4986.7	16.5
50°-60°	6123.9	20.3
60°-70°	6565.5	21.8
70°-80°	4167.9	13.8
80°-90°	379.3	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°	30168.0	100.0
0°-180°	30168.0	100.0

**Coefficient of Utilization**



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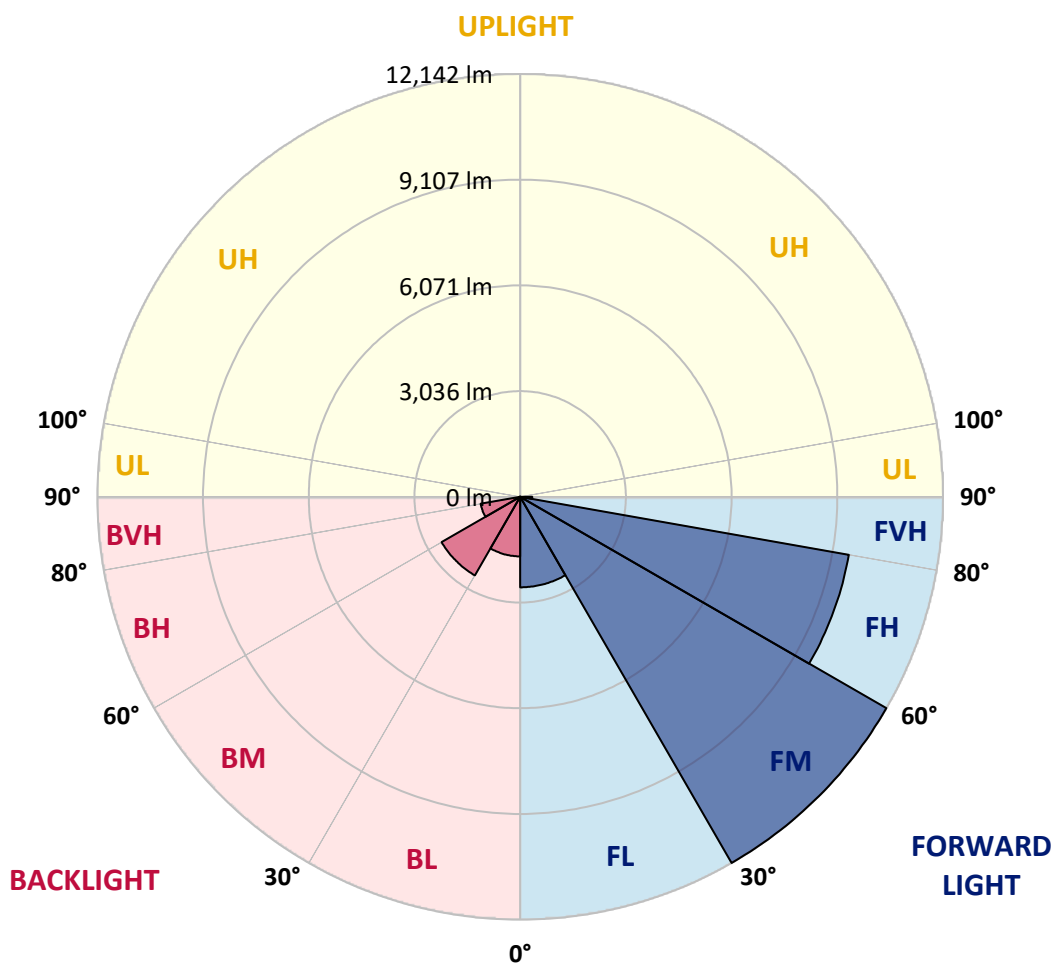
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2599.2	8.6			
FM (30°-60°)	12142.3	40.2			
FH (60°-80°)	9583.6	31.8			G4/12000
FVH (80°-90°)	346.0	1.1			G3/500
BL (0°-30°)	1710.7	5.7	B3/2500		
BM (30°-60°)	2603.1	8.6	B3/5000		
BH (60°-80°)	1149.7	3.8	B3/2500		G3/2500
BVH (80°-90°)	33.3	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-G4**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	4537.9	4537.9	4537.9	4537.9	4537.9	4537.9	4537.9	4537.9	4537.9	4537.9	4537.9
2.5°	4497.1	4539.4	4514.6	4511.7	4540.9	4513.1	4532.1	4527.7	4524.8	4529.2	4559.8
5°	4615.3	4664.9	4631.4	4621.1	4637.2	4587.6	4583.2	4573.0	4570.1	4571.5	4615.3
7.5°	4780.2	4838.6	4825.5	4799.2	4790.5	4708.7	4694.1	4657.6	4646.0	4648.9	4692.7
10°	5040.1	5098.4	5072.2	5013.8	4977.3	4883.9	4831.3	4784.6	4761.3	4764.2	4810.9
12.5°	5372.8	5428.3	5384.5	5278.0	5257.5	5107.2	5025.5	4926.2	4910.1	4886.8	4936.4
15°	5686.7	5734.8	5714.4	5615.1	5559.7	5381.6	5231.3	5108.7	5094.1	5072.2	5070.7
17.5°	6034.1	6082.2	6044.3	5971.3	5898.3	5686.7	5524.6	5367.0	5329.1	5310.1	5241.5
20°	6404.8	6480.7	6473.4	6413.6	6326.0	6077.8	5848.7	5670.6	5629.7	5594.7	5450.2
22.5°	6787.2	6886.5	6864.6	6832.5	6796.0	6517.2	6250.1	6044.3	6013.6	5939.2	5711.5
25°	7210.5	7279.1	7263.0	7279.1	7254.3	7007.6	6715.7	6464.6	6423.8	6353.7	6004.9
27.5°	7620.7	7692.2	7719.9	7686.3	7702.4	7525.8	7179.9	6955.1	6915.7	6787.2	6358.1
30°	7991.4	8080.4	8119.8	8134.4	8188.4	8006.0	7750.6	7477.6	7464.5	7333.1	6823.7
32.5°	8287.7	8387.0	8483.3	8546.1	8632.2	8551.9	8297.9	8133.0	8134.4	8016.2	7522.9
35°	8502.3	8616.1	8756.2	8922.6	9103.6	9070.1	8919.7	8922.6	8946.0	8985.4	8414.7
37.5°	8740.2	8832.1	8997.1	9229.2	9505.0	9575.1	9554.6	9786.7	9900.6	9970.6	9198.5
40°	8881.8	8975.2	9181.0	9493.3	9894.7	10062.6	10250.9	10658.1	10807.0	10734.0	9868.5
42.5°	8725.6	8808.8	9166.4	9706.4	10214.4	10595.4	10932.5	11528.0	11636.1	11398.1	10433.3
45°	8522.7	8630.7	9007.3	9764.8	10497.6	11117.9	11641.9	12285.6	12365.9	12028.7	10932.5
47.5°	8356.3	8451.2	8890.5	9702.1	10758.8	11653.6	12265.2	13000.8	13021.2	12605.2	11449.2
50°	8143.2	8258.5	8716.8	9624.7	10916.5	12127.9	12835.9	13667.8	13713.1	13202.2	11887.1
52.5°	7919.9	8032.3	8506.6	9497.7	11030.3	12522.0	13428.5	14377.2	14381.6	13834.2	12354.2
55°	7590.0	7709.7	8235.2	9313.8	11065.3	12783.3	14024.0	15101.2	15146.4	14475.0	12777.5
57.5°	7241.2	7343.3	7908.2	9027.7	10935.4	13030.0	14635.6	15905.4	16029.5	15197.5	13140.9
60°	6778.5	6880.6	7477.6	8652.6	10659.6	13307.3	15336.2	16874.6	16887.8	15782.8	13405.1
62.5°	6280.7	6369.8	6918.6	8064.4	10231.9	13413.9	15937.5	17649.7	17648.2	16303.9	13536.5
65°	5689.6	5726.1	6285.1	7341.9	9567.8	13257.7	16203.2	18160.5	18110.9	16679.0	13492.7
67.5°	4989.0	5028.4	5451.7	6444.2	8604.4	12647.6	16085.0	18407.2	18456.8	17013.3	13302.9
70°	4101.5	4148.2	4517.5	5355.3	7376.9	11674.0	15807.6	18513.8	18556.1	16879.0	12717.6
72.5°	3027.2	3090.0	3316.2	3986.2	5599.1	9808.6	14523.2	17347.5	17370.9	15758.0	11498.9
75°	1880.0	1995.3	2208.4	2649.2	3633.0	6879.2	12414.0	15508.4	15362.5	14056.1	9515.2
77.5°	751.7	770.7	877.2	1240.7	1772.0	3581.9	8998.5	12327.9	12606.7	11246.3	6806.2
80°	437.9	435.0	459.8	578.0	760.5	1224.6	3500.2	6915.7	7708.2	6177.1	3062.3
82.5°	353.2	340.1	340.1	370.7	364.9	515.2	1147.3	2020.1	2215.7	1966.1	871.4
85°	185.4	181.0	147.4	182.5	182.5	256.9	440.8	572.2	604.3	526.9	327.0
87.5°	46.7	46.7	46.7	56.9	45.2	54.0	74.4	90.5	93.4	75.9	48.2
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°	4537.9	4537.9	4537.9	4537.9	4537.9	4537.9	4537.9	4537.9	4537.9	4537.9	4537.9
2.5°	4571.5	4584.7	4635.7	4628.4	4637.2	4637.2	4651.8	4667.9	4716.0	4688.3	4676.6
5°	4624.1	4650.3	4714.6	4737.9	4772.9	4777.3	4806.5	4816.7	4869.3	4840.1	4840.1
7.5°	4724.8	4755.4	4815.3	4824.0	4840.1	4812.4	4819.7	4787.5	4822.6	4787.5	4789.0
10°	4838.6	4859.1	4899.9	4841.5	4816.7	4751.0	4736.5	4657.6	4685.4	4640.1	4628.4
12.5°	4948.1	4940.8	4910.1	4806.5	4737.9	4629.9	4584.7	4478.1	4472.3	4412.4	4400.7
15°	5051.7	5000.6	4901.4	4740.8	4624.1	4473.7	4365.7	4248.9	4208.1	4139.5	4133.6
17.5°	5178.7	5091.1	4914.5	4678.1	4486.9	4267.9	4114.7	3983.3	3898.6	3835.9	3834.4
20°	5333.4	5199.2	4920.4	4606.5	4345.3	4065.0	3850.5	3684.1	3562.9	3484.1	3482.6
22.5°	5527.6	5345.1	4974.4	4524.8	4164.3	3819.8	3552.7	3265.2	3098.8	2938.2	2909.0
25°	5755.3	5492.5	5021.1	4482.5	3986.2	3564.4	3167.4	2747.0	2488.6	2360.2	2312.0
27.5°	6074.9	5737.7	5089.7	4402.2	3818.4	3249.1	2671.1	2212.8	1901.9	1792.4	1792.4
30°	6444.2	6047.2	5218.1	4354.0	3584.8	2806.8	2126.7	1634.8	1345.8	1180.8	1176.5
32.5°	7007.6	6416.5	5334.9	4250.4	3301.7	2325.2	1538.4	1053.8	821.8	719.6	713.8
35°	7817.7	7120.0	5523.2	4146.8	2891.5	1731.1	976.5	604.3	468.5	410.2	407.2
37.5°	8597.1	7790.0	5929.0	3941.0	2309.1	1087.4	541.5	348.8	286.1	278.8	275.9
40°	9146.0	8368.0	6215.0	3627.1	1640.6	576.5	313.8	252.5	248.1	245.2	243.8
42.5°	9744.4	8797.1	6417.9	3227.2	973.6	334.3	255.4	227.7	220.4	217.5	217.5
45°	10230.4	9210.2	6455.9	2655.0	490.4	275.9	233.5	207.3	198.5	204.3	205.8
47.5°	10678.5	9599.9	6327.4	1996.8	331.3	256.9	218.9	192.7	186.8	201.4	201.4
50°	11061.0	9929.8	6032.6	1490.3	310.9	242.3	204.3	178.1	176.6	189.8	191.2
52.5°	11441.9	10195.4	5568.4	1125.4	294.8	226.2	189.8	164.9	160.6	169.3	170.8
55°	11744.1	10290.3	5224.0	837.8	283.2	211.6	176.6	151.8	141.6	140.1	143.0
57.5°	11910.5	10207.1	4886.8	616.0	270.0	198.5	163.5	134.3	118.2	118.2	118.2
60°	11913.4	10106.4	4526.3	487.5	255.4	183.9	148.9	115.3	99.3	96.3	96.3
62.5°	11881.3	9926.8	4002.3	423.3	239.4	172.2	129.9	97.8	86.1	81.7	81.7
65°	11739.7	9588.2	3367.3	362.0	220.4	163.5	110.9	87.6	77.4	71.5	71.5
67.5°	11298.9	8953.3	2592.3	315.3	202.9	144.5	100.7	78.8	68.6	62.8	61.3
70°	10490.3	7927.2	1710.7	268.6	185.4	128.4	92.0	71.5	61.3	55.5	54.0
72.5°	9134.3	6451.5	859.7	227.7	159.1	118.2	83.2	62.8	52.5	46.7	46.7
75°	7158.0	4478.1	468.5	181.0	125.5	103.6	73.0	52.5	45.2	40.9	40.9
77.5°	4389.1	2220.1	319.7	140.1	94.9	84.7	58.4	43.8	39.4	38.0	38.0
80°	1601.2	726.9	214.6	99.3	71.5	65.7	46.7	38.0	36.5	36.5	36.5
82.5°	578.0	369.3	144.5	67.1	45.2	49.6	38.0	32.1	30.7	32.1	33.6
85°	237.9	162.0	52.5	38.0	24.8	26.3	23.4	21.9	23.4	24.8	24.8
87.5°	36.5	32.1	19.0	19.0	14.6	13.1	10.2	11.7	14.6	17.5	17.5
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)