

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: P510334

Luminaire Tested: **VERD-M-CA4-250-750-U-T3-HSS**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510334  
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-CA4-250-750-U-T3-HSS  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(4) 70 CRI, 5000K, 1130mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32873 lumens  
Efficiency: N/A  
Efficacy: 130.6 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

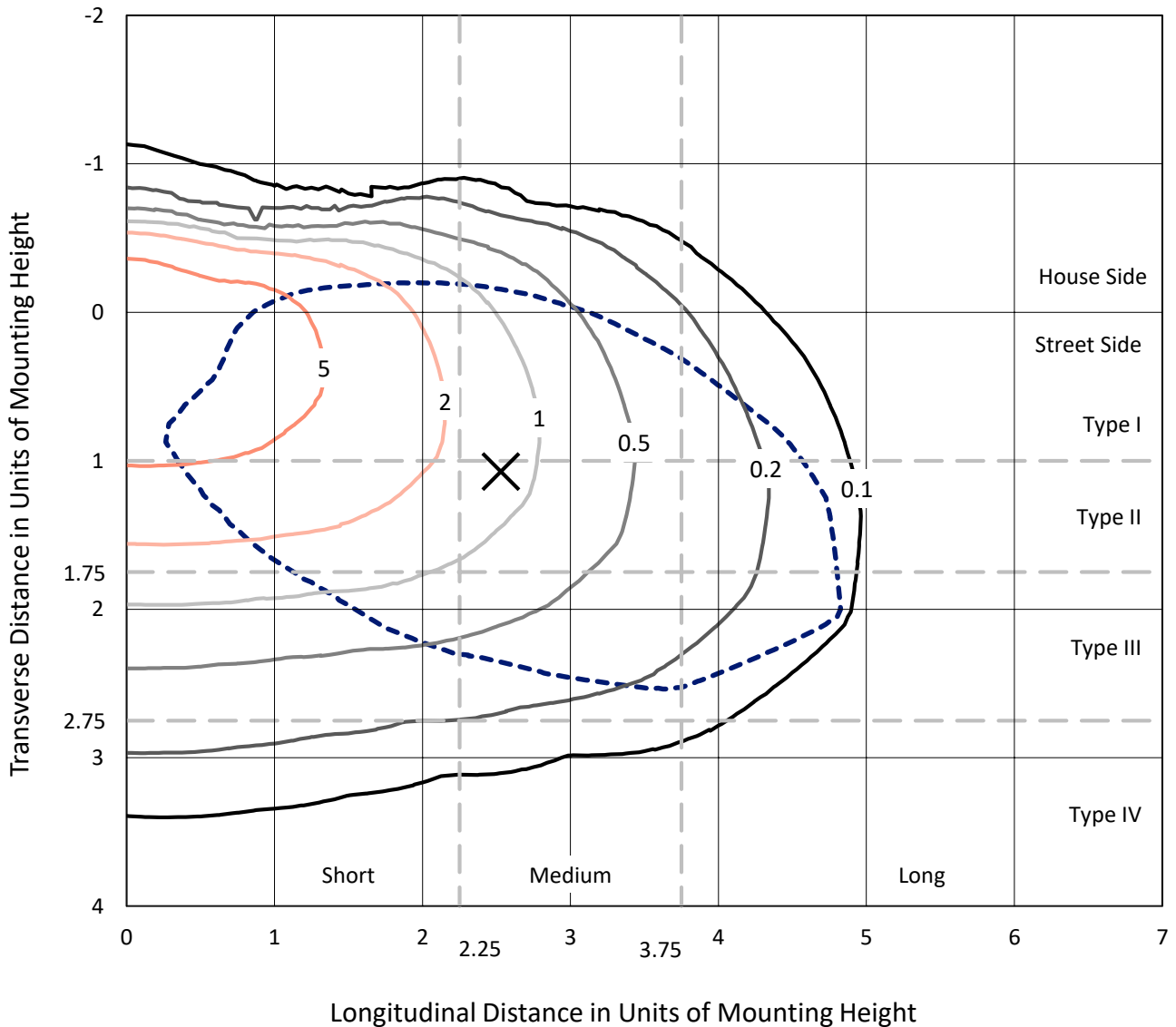
Input Watts (W): 251.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

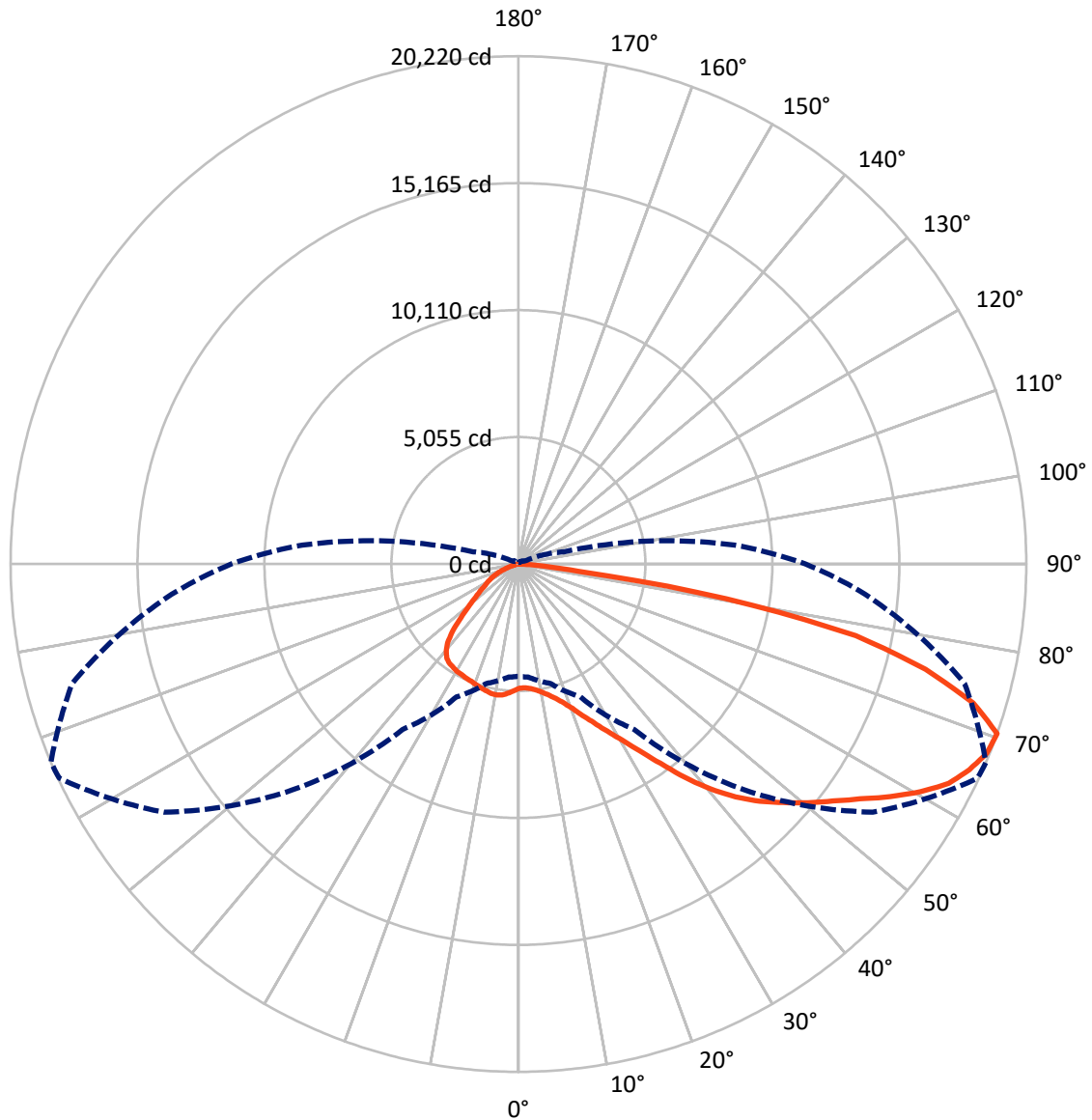
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 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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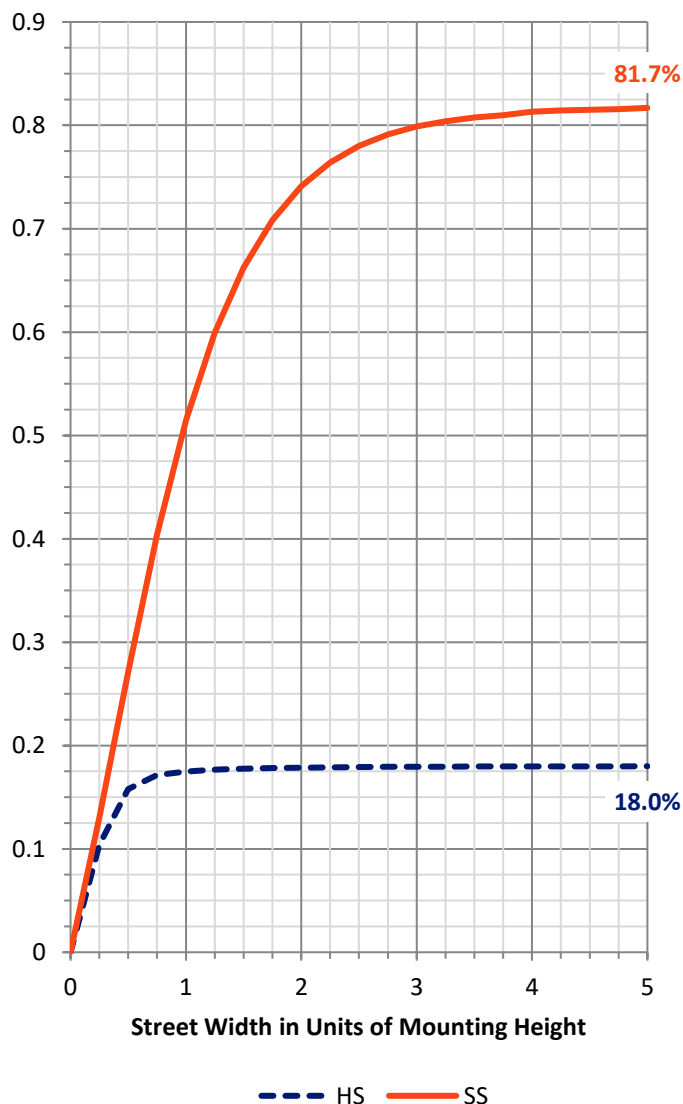
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5989.7	0.0	5989.7
	% Fixture	18.2	0.0	18.2
<b>Street Side</b>	Lumens	26883.3	0.0	26883.3
	% Fixture	81.8	0.0	81.8
<b>Total</b>	Lumens	32873.0	0.0	32873.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	492.7	1.5
10°-20°	1537.0	4.7
20°-30°	2666.7	8.1
30°-40°	3960.7	12.0
40°-50°	5433.8	16.5
50°-60°	6673.0	20.3
60°-70°	7154.2	21.8
70°-80°	4541.6	13.8
80°-90°	413.3	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°	32873.0	100.0
0°-180°	32873.0	100.0

**Coefficient of Utilization**



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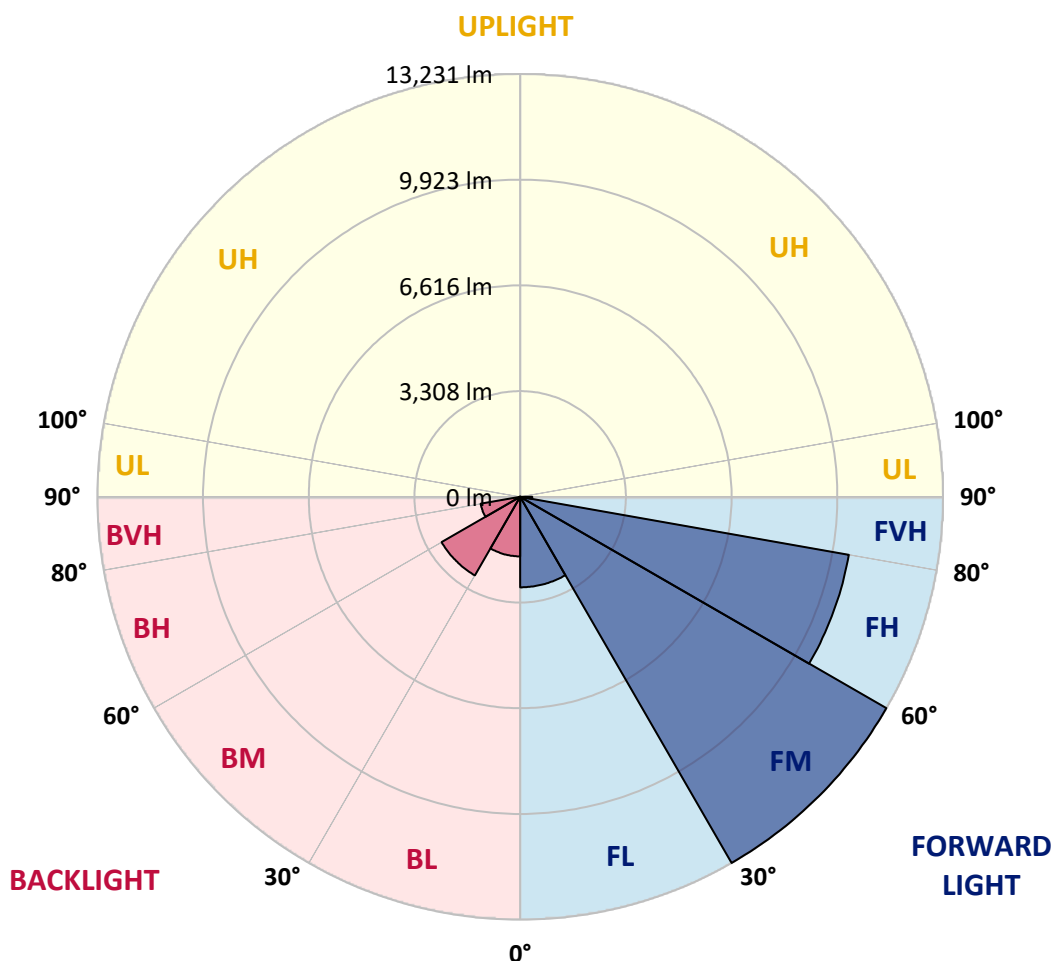
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2832.3	8.6			
FM (30°-60°)	13231.1	40.2			
FH (60°-80°)	10443.0	31.8			G4/12000
FVH (80°-90°)	377.0	1.1			G3/500
BL (0°-30°)	1864.1	5.7	B3/2500		
BM (30°-60°)	2836.5	8.6	B3/5000		
BH (60°-80°)	1252.8	3.8	B3/2500		G3/2500
BVH (80°-90°)	36.3	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°	4944.8	4944.8	4944.8	4944.8	4944.8	4944.8	4944.8	4944.8	4944.8	4944.8	4944.8
2.5°	4900.3	4946.4	4919.4	4916.2	4948.0	4917.8	4938.5	4933.7	4930.5	4935.3	4968.7
5°	5029.1	5083.2	5046.6	5035.5	5053.0	4998.9	4994.1	4983.0	4979.8	4981.4	5029.1
7.5°	5208.9	5272.5	5258.2	5229.5	5220.0	5130.9	5115.0	5075.3	5062.5	5065.7	5113.4
10°	5492.0	5555.6	5527.0	5463.3	5423.6	5321.8	5264.5	5213.6	5188.2	5191.4	5242.3
12.5°	5854.6	5915.0	5867.3	5751.2	5729.0	5565.1	5476.1	5367.9	5350.4	5325.0	5379.0
15°	6196.6	6249.0	6226.8	6118.6	6058.2	5864.1	5700.3	5566.7	5550.8	5527.0	5525.4
17.5°	6575.1	6627.6	6586.2	6506.7	6427.2	6196.6	6020.0	5848.2	5806.9	5786.2	5711.5
20°	6979.1	7061.8	7053.8	6988.6	6893.2	6622.8	6373.1	6179.1	6134.5	6096.4	5938.9
22.5°	7395.8	7503.9	7480.1	7445.1	7405.3	7101.5	6810.5	6586.2	6552.8	6471.7	6223.6
25°	7857.0	7931.8	7914.3	7931.8	7904.7	7636.0	7317.9	7044.3	6999.8	6923.4	6543.3
27.5°	8304.0	8381.9	8412.1	8375.5	8393.0	8200.6	7823.6	7578.7	7535.7	7395.8	6928.2
30°	8707.9	8805.0	8847.9	8863.8	8922.7	8723.8	8445.5	8148.1	8133.8	7990.6	7435.5
32.5°	9030.8	9139.0	9243.9	9312.3	9406.2	9318.7	9041.9	8862.2	8863.8	8735.0	8197.4
35°	9264.6	9388.7	9541.4	9722.7	9919.9	9883.3	9719.5	9722.7	9748.1	9791.1	9169.2
37.5°	9523.9	9624.1	9803.8	10056.7	10357.3	10433.6	10411.4	10664.2	10788.3	10864.6	10023.3
40°	9678.1	9779.9	10004.2	10344.6	10781.9	10964.8	11170.0	11613.8	11776.0	11696.5	10753.3
42.5°	9508.0	9598.6	9988.3	10576.8	11130.3	11545.4	11912.8	12561.7	12679.4	12420.1	11368.8
45°	9286.9	9404.6	9814.9	10640.4	11438.8	12114.8	12685.8	13387.2	13474.6	13107.2	11912.8
47.5°	9105.6	9208.9	9687.7	10572.0	11723.5	12698.5	13364.9	14166.5	14188.8	13735.5	12475.8
50°	8873.4	8999.0	9498.4	10487.7	11895.3	13215.4	13986.8	14893.4	14942.7	14386.0	12953.0
52.5°	8630.0	8752.5	9269.4	10349.3	12019.3	13644.8	14632.5	15666.3	15671.1	15074.7	13461.9
55°	8270.6	8401.0	8973.6	10148.9	12057.5	13929.5	15281.4	16455.2	16504.5	15772.9	13923.2
57.5°	7890.4	8001.8	8617.3	9837.2	11916.0	14198.3	15947.9	17331.6	17466.8	16560.2	14319.2
60°	7386.2	7497.6	8148.1	9428.4	11615.4	14500.5	16711.3	18387.7	18402.0	17198.0	14607.1
62.5°	6843.9	6940.9	7538.9	8787.5	11149.3	14616.6	17366.6	19232.2	19230.6	17765.8	14750.2
65°	6199.7	6239.5	6848.7	8000.2	10425.7	14446.4	17656.0	19788.9	19734.8	18174.5	14702.5
67.5°	5436.3	5479.2	5940.5	7022.0	9375.9	13781.6	17527.2	20057.7	20111.8	18538.8	14495.7
70°	4469.3	4520.2	4922.6	5835.5	8038.3	12720.8	17225.0	20173.8	20219.9	18392.4	13858.0
72.5°	3298.7	3367.1	3613.6	4343.6	6101.1	10688.1	15825.4	18903.0	18928.4	17170.9	12529.9
75°	2048.6	2174.2	2406.4	2886.7	3958.7	7496.0	13527.1	16899.0	16739.9	15316.4	10368.4
77.5°	819.1	839.8	955.9	1351.9	1930.9	3903.1	9805.4	13433.3	13737.1	12254.7	7416.5
80°	477.1	474.0	501.0	629.8	828.6	1334.4	3814.0	7535.7	8399.4	6731.0	3336.9
82.5°	384.9	370.6	370.6	404.0	397.6	561.4	1250.1	2201.2	2414.4	2142.4	949.5
85°	202.0	197.2	160.6	198.8	198.8	279.9	480.3	623.5	658.5	574.2	356.3
87.5°	50.9	50.9	50.9	62.0	49.3	58.8	81.1	98.6	101.8	82.7	52.5
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°	4944.8	4944.8	4944.8	4944.8	4944.8	4944.8	4944.8	4944.8	4944.8	4944.8	4944.8
2.5°	4981.4	4995.7	5051.4	5043.4	5053.0	5053.0	5068.9	5086.4	5138.9	5108.7	5095.9
5°	5038.7	5067.3	5137.3	5162.7	5200.9	5205.7	5237.5	5248.6	5305.9	5274.1	5274.1
7.5°	5148.4	5181.8	5247.0	5256.6	5274.1	5243.9	5251.8	5216.8	5255.0	5216.8	5218.4
10°	5272.5	5294.7	5339.3	5275.7	5248.6	5177.1	5161.1	5075.3	5105.5	5056.2	5043.4
12.5°	5391.8	5383.8	5350.4	5237.5	5162.7	5045.0	4995.7	4879.6	4873.3	4808.1	4795.3
15°	5504.7	5449.0	5340.9	5165.9	5038.7	4874.9	4757.2	4629.9	4585.4	4510.6	4504.3
17.5°	5643.1	5547.6	5355.2	5097.5	4889.2	4650.6	4483.6	4340.5	4248.2	4179.8	4178.2
20°	5811.7	5665.3	5361.5	5019.6	4734.9	4429.5	4195.7	4014.4	3882.4	3796.5	3794.9
22.5°	6023.2	5824.4	5420.4	4930.5	4537.7	4162.3	3871.3	3557.9	3376.6	3201.7	3169.8
25°	6271.3	5985.0	5471.3	4884.4	4343.6	3884.0	3451.4	2993.3	2711.8	2571.8	2519.3
27.5°	6619.6	6252.2	5546.0	4796.9	4160.7	3540.4	2910.6	2411.2	2072.4	1953.1	1953.1
30°	7022.0	6589.4	5686.0	4744.4	3906.2	3058.5	2317.3	1781.4	1466.4	1286.7	1281.9
32.5°	7636.0	6991.8	5813.2	4631.5	3597.7	2533.7	1676.4	1148.3	895.4	784.1	777.8
35°	8518.7	7758.4	6018.4	4518.6	3150.8	1886.3	1064.0	658.5	510.5	446.9	443.7
37.5°	9368.0	8488.5	6460.6	4294.3	2516.2	1184.9	590.1	380.1	311.7	303.8	300.6
40°	9966.0	9118.3	6772.3	3952.4	1787.7	628.2	342.0	275.2	270.4	267.2	265.6
42.5°	10618.1	9585.9	6993.4	3516.6	1060.9	364.2	278.3	248.1	240.2	237.0	237.0
45°	11147.8	10036.0	7034.7	2893.1	534.4	300.6	254.5	225.8	216.3	222.7	224.3
47.5°	11636.0	10460.7	6894.8	2175.8	361.0	279.9	238.6	209.9	203.6	219.5	219.5
50°	12052.7	10820.1	6573.5	1623.9	338.8	264.0	222.7	194.0	192.4	206.8	208.4
52.5°	12467.9	11109.6	6067.7	1226.3	321.3	246.5	206.8	179.7	175.0	184.5	186.1
55°	12797.1	11213.0	5692.4	912.9	308.6	230.6	192.4	165.4	154.3	152.7	155.9
57.5°	12978.4	11122.3	5325.0	671.2	294.2	216.3	178.1	146.3	128.8	128.8	128.8
60°	12981.6	11012.6	4932.1	531.2	278.3	200.4	162.2	125.6	108.2	105.0	105.0
62.5°	12946.6	10816.9	4361.1	461.2	260.8	187.7	141.6	106.6	93.8	89.1	89.1
65°	12792.3	10447.9	3669.3	394.4	240.2	178.1	120.9	95.4	84.3	77.9	77.9
67.5°	12312.0	9756.1	2824.7	343.5	221.1	157.5	109.7	85.9	74.8	68.4	66.8
70°	11430.9	8638.0	1864.1	292.7	202.0	140.0	100.2	77.9	66.8	60.4	58.8
72.5°	9953.3	7030.0	936.8	248.1	173.4	128.8	90.7	68.4	57.3	50.9	50.9
75°	7799.8	4879.6	510.5	197.2	136.8	112.9	79.5	57.3	49.3	44.5	44.5
77.5°	4782.6	2419.1	348.3	152.7	103.4	92.2	63.6	47.7	42.9	41.4	41.4
80°	1744.8	792.1	233.8	108.2	77.9	71.6	50.9	41.4	39.8	39.8	39.8
82.5°	629.8	402.4	157.5	73.2	49.3	54.1	41.4	35.0	33.4	35.0	36.6
85°	259.3	176.5	57.3	41.4	27.0	28.6	25.4	23.9	25.4	27.0	27.0
87.5°	39.8	35.0	20.7	20.7	15.9	14.3	11.1	12.7	15.9	19.1	19.1
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)