

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: P510318

Luminaire Tested: **VERD-M-CA4-250-730-U-T3-HSS**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510318  
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-CA4-250-730-U-T3-HSS  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(4) 70 CRI, 3000K, 1130mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

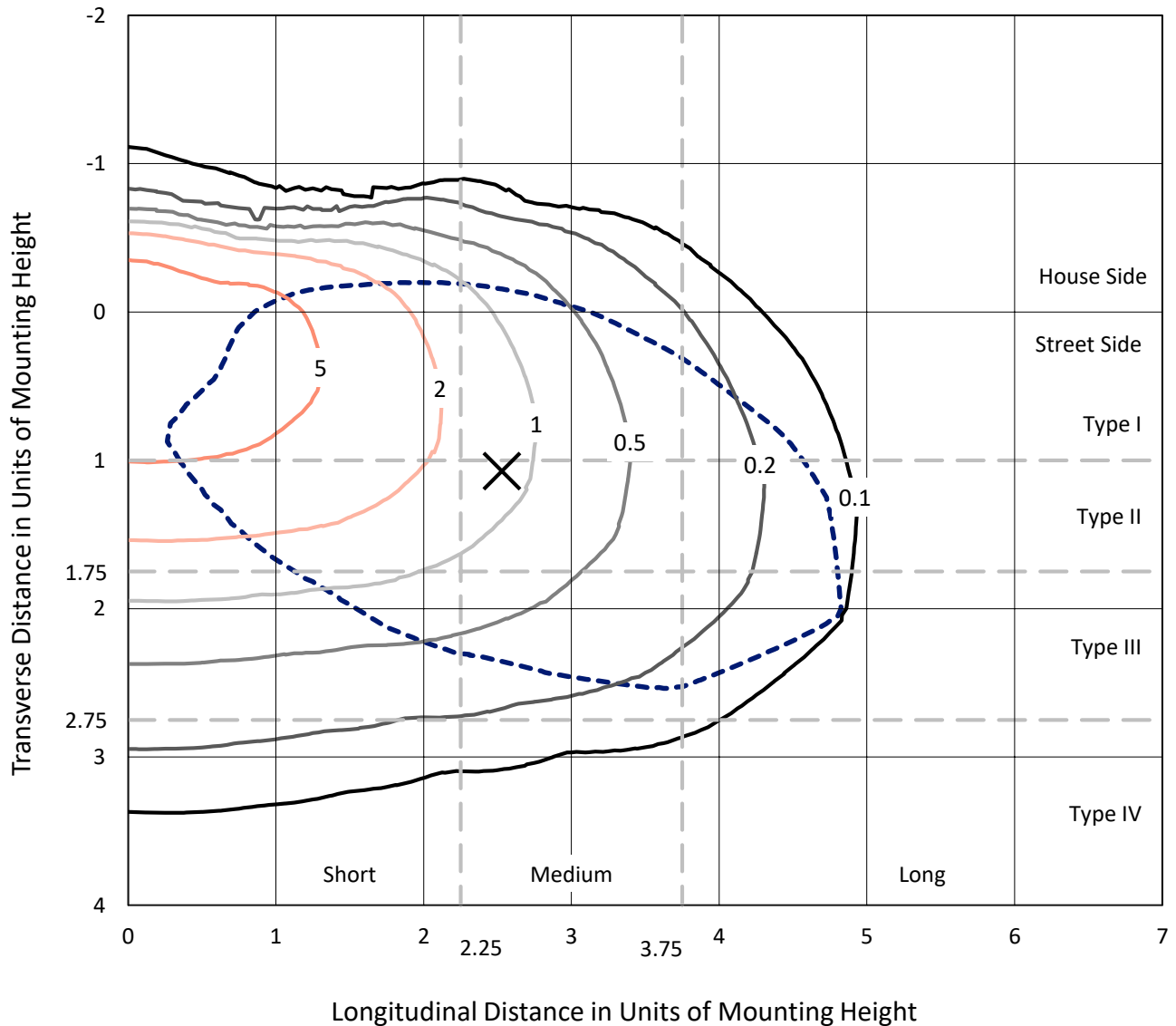
Lumens per Lamp: N/A  
Luminaire Lumens: 31697 lumens  
Efficiency: N/A  
Efficacy: 125.9 lumens/watt  
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 251.7  
Input Voltage (V): NR  
Input Current (Ain): 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

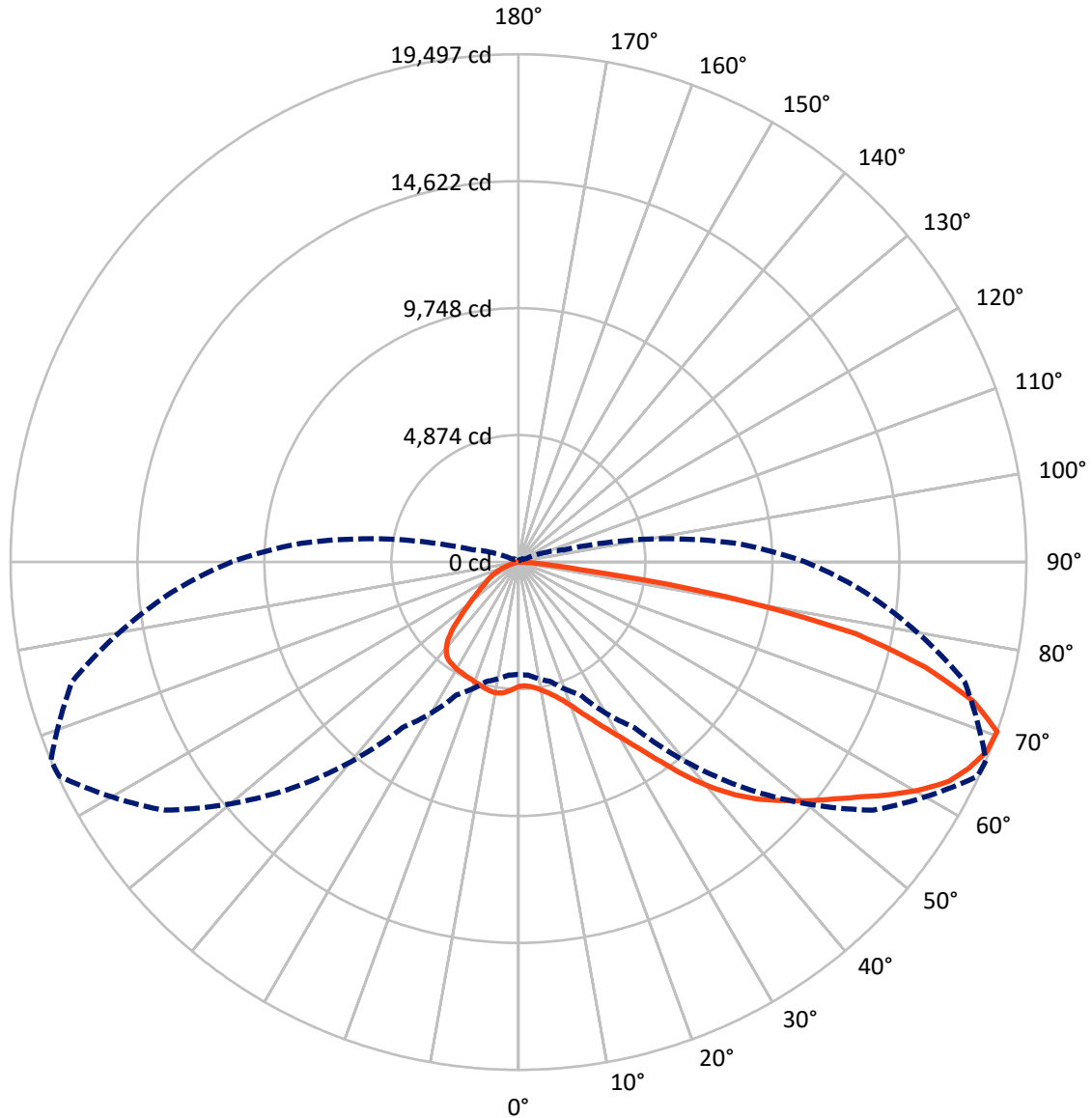
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc  
 Type III - Medium - N/A

REPORT NUMBER: P510318  
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### Luminous Intensity Polar Plot



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

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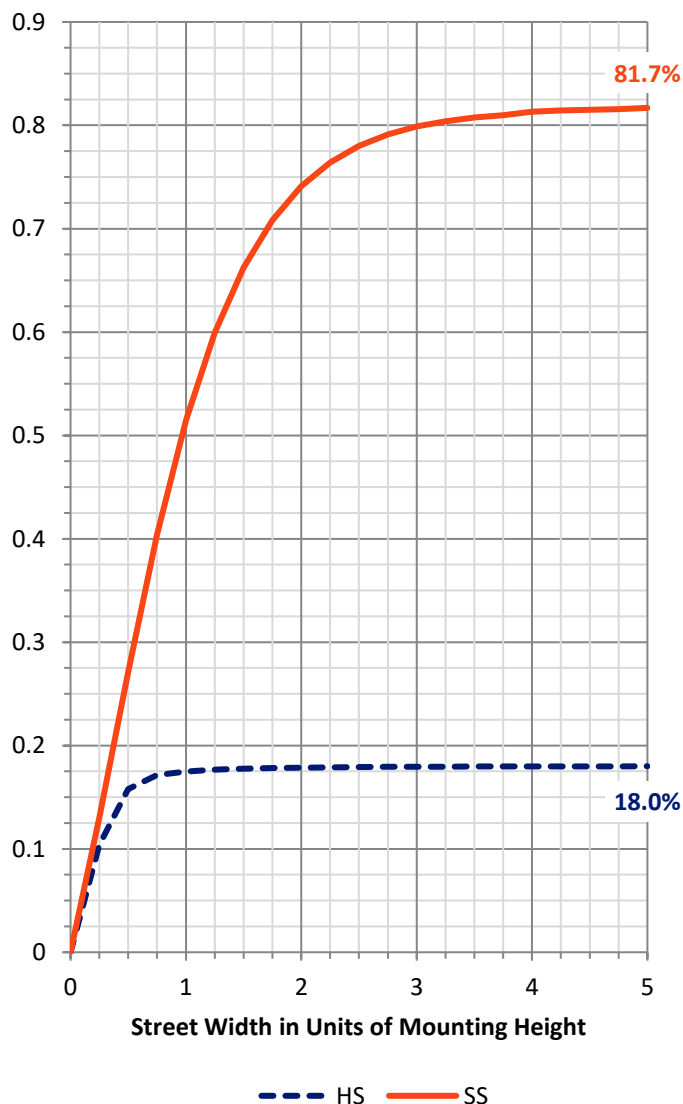
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5775.4	0.0	5775.4
	% Fixture	18.2	0.0	18.2
<b>Street Side</b>	Lumens	25921.6	0.0	25921.6
	% Fixture	81.8	0.0	81.8
<b>Total</b>	Lumens	31697.0	0.0	31697.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	475.0	1.5
10°-20°	1482.0	4.7
20°-30°	2571.3	8.1
30°-40°	3819.0	12.0
40°-50°	5239.4	16.5
50°-60°	6434.3	20.3
60°-70°	6898.3	21.8
70°-80°	4379.1	13.8
80°-90°	398.5	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°	31697.0	100.0
0°-180°	31697.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P510318

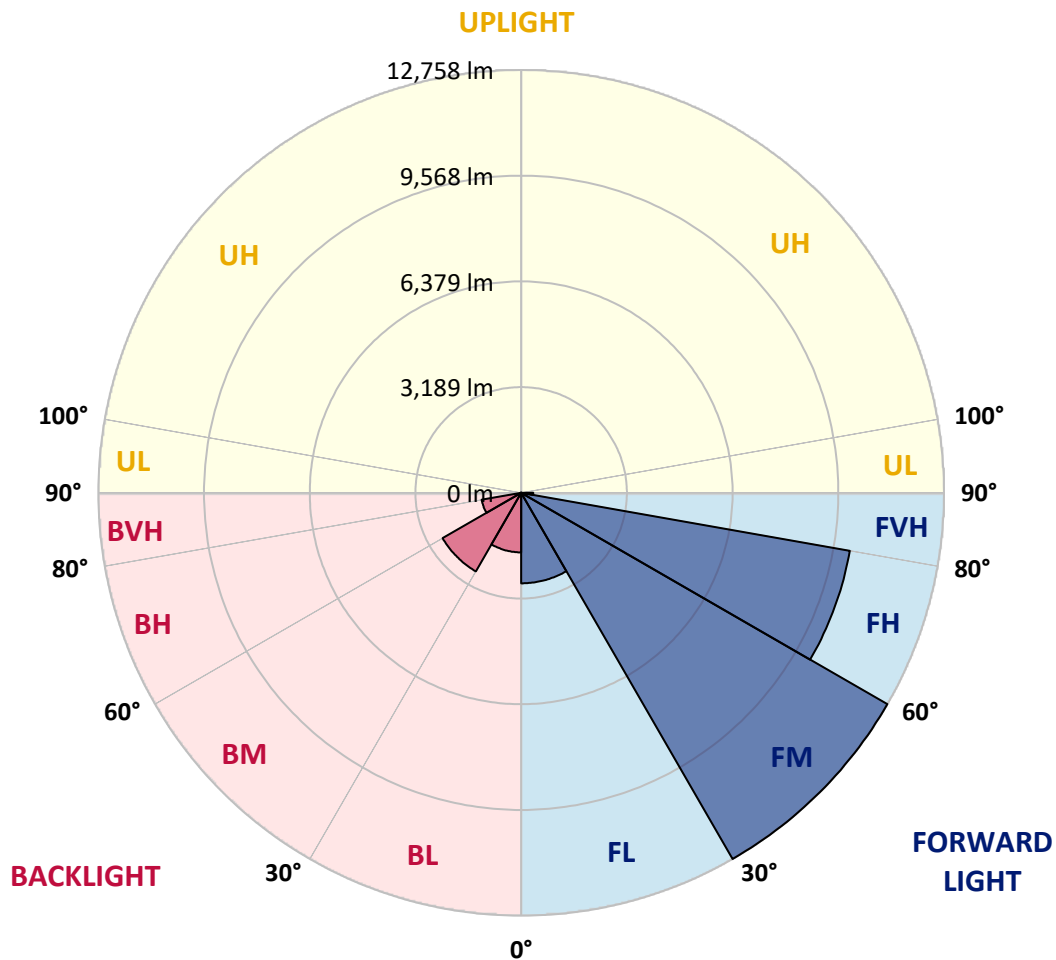
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2731.0	8.6			
FM	(30°-60°)	12757.7	40.2			
FH	(60°-80°)	10069.4	31.8			G4/12000
FVH	(80°-90°)	363.5	1.1			G3/500
BL	(0°-30°)	1797.4	5.7	B3/2500		
BM	(30°-60°)	2735.0	8.6	B3/5000		
BH	(60°-80°)	1208.0	3.8	B3/2500		G3/2500
BVH	(80°-90°)	35.0	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-G4**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	4767.9	4767.9	4767.9	4767.9	4767.9	4767.9	4767.9	4767.9	4767.9	4767.9	4767.9
2.5°	4725.0	4769.5	4743.4	4740.3	4771.0	4741.9	4761.8	4757.2	4754.1	4758.7	4790.9
5°	4849.2	4901.4	4866.1	4855.4	4872.2	4820.1	4815.5	4804.7	4801.7	4803.2	4849.2
7.5°	5022.5	5083.9	5070.1	5042.5	5033.3	4947.4	4932.0	4893.7	4881.4	4884.5	4930.5
10°	5295.5	5356.8	5329.2	5267.9	5229.6	5131.4	5076.2	5027.1	5002.6	5005.6	5054.7
12.5°	5645.2	5703.4	5657.4	5545.5	5524.0	5366.0	5280.2	5175.9	5159.0	5134.5	5186.6
15°	5974.9	6025.5	6004.0	5899.7	5841.5	5654.4	5496.4	5367.6	5352.2	5329.2	5327.7
17.5°	6339.9	6390.5	6350.6	6273.9	6197.3	5974.9	5804.7	5639.0	5599.1	5579.2	5507.1
20°	6729.4	6809.2	6801.5	6738.6	6646.6	6385.9	6145.1	5958.0	5915.1	5878.3	5726.4
22.5°	7131.2	7235.5	7212.5	7178.8	7140.4	6847.5	6566.8	6350.6	6318.4	6240.2	6001.0
25°	7576.0	7648.0	7631.2	7648.0	7622.0	7362.8	7056.1	6792.3	6749.3	6675.7	6309.2
27.5°	8006.9	8082.0	8111.2	8075.9	8092.8	7907.2	7543.7	7307.6	7266.2	7131.2	6680.3
30°	8396.4	8490.0	8531.4	8546.7	8603.5	8411.8	8143.4	7856.6	7842.8	7704.8	7169.5
32.5°	8707.7	8812.0	8913.2	8979.2	9069.7	8985.3	8718.5	8545.2	8546.7	8422.5	7904.1
35°	8933.2	9052.8	9200.0	9374.9	9565.0	9529.7	9371.8	9374.9	9399.4	9440.8	8841.2
37.5°	9183.2	9279.8	9453.1	9696.9	9986.8	10060.4	10038.9	10282.7	10402.4	10476.0	9664.7
40°	9331.9	9430.1	9646.3	9974.5	10396.2	10572.6	10770.4	11198.3	11354.7	11278.0	10368.6
42.5°	9167.8	9255.2	9631.0	10198.4	10732.1	11132.4	11486.6	12112.3	12225.8	11975.8	10962.1
45°	8954.7	9068.1	9463.8	10259.7	11029.6	11681.4	12231.9	12908.3	12992.6	12638.3	11486.6
47.5°	8779.8	8879.5	9341.1	10193.8	11304.1	12244.2	12886.8	13659.7	13681.2	13244.1	12029.5
50°	8555.9	8677.1	9158.6	10112.5	11469.7	12742.6	13486.4	14360.6	14408.1	13871.4	12489.6
52.5°	8321.3	8439.4	8937.8	9979.1	11589.4	13156.7	14109.1	15105.9	15110.5	14535.4	12980.3
55°	7974.7	8100.4	8652.5	9785.9	11626.2	13431.2	14734.8	15866.6	15914.1	15208.6	13425.1
57.5°	7608.2	7715.5	8309.0	9485.3	11489.7	13690.4	15377.3	16711.6	16841.9	15967.8	13806.9
60°	7122.0	7229.4	7856.6	9091.1	11199.8	13981.8	16113.5	17729.9	17743.7	16582.7	14084.5
62.5°	6599.1	6692.6	7269.2	8473.1	10750.5	14093.7	16745.3	18544.2	18542.7	17130.2	14222.5
65°	5977.9	6016.3	6603.7	7714.0	10052.7	13929.6	17024.4	19081.0	19028.8	17524.4	14176.5
67.5°	5241.8	5283.2	5728.0	6770.8	9040.5	13288.6	16900.2	19340.1	19392.3	17875.6	13977.2
70°	4309.4	4358.5	4746.5	5626.8	7750.8	12265.7	16608.8	19452.1	19496.6	17734.5	13362.2
72.5°	3180.7	3246.6	3484.3	4188.2	5882.9	10305.7	15259.3	18226.8	18251.3	16556.7	12081.6
75°	1975.3	2096.4	2320.3	2783.5	3817.1	7227.8	13043.2	16294.4	16141.1	14768.5	9997.5
77.5°	789.8	809.7	921.7	1303.6	1861.8	3763.4	9454.6	12952.7	13245.6	11816.3	7151.1
80°	460.1	457.0	483.1	607.3	799.0	1286.7	3677.6	7266.2	8098.9	6490.2	3217.5
82.5°	371.1	357.3	357.3	389.5	383.4	541.4	1205.4	2122.5	2328.0	2065.8	915.6
85°	194.8	190.2	154.9	191.7	191.7	269.9	463.1	601.2	634.9	553.6	343.5
87.5°	49.1	49.1	49.1	59.8	47.5	56.7	78.2	95.1	98.1	79.7	50.6
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°	4767.9	4767.9	4767.9	4767.9	4767.9	4767.9	4767.9	4767.9	4767.9	4767.9	4767.9
2.5°	4803.2	4817.0	4870.7	4863.0	4872.2	4872.2	4887.6	4904.4	4955.0	4925.9	4913.6
5°	4858.4	4886.0	4953.5	4978.0	5014.9	5019.5	5050.1	5060.9	5116.1	5085.4	5085.4
7.5°	4964.2	4996.4	5059.3	5068.5	5085.4	5056.3	5063.9	5030.2	5067.0	5030.2	5031.7
10°	5083.9	5105.3	5148.3	5086.9	5060.9	4991.8	4976.5	4893.7	4922.8	4875.3	4863.0
12.5°	5198.9	5191.2	5159.0	5050.1	4978.0	4864.6	4817.0	4705.1	4698.9	4636.1	4623.8
15°	5307.8	5254.1	5149.8	4981.1	4858.4	4700.5	4587.0	4464.3	4421.3	4349.3	4343.1
17.5°	5441.2	5349.2	5163.6	4915.2	4714.3	4484.2	4323.2	4185.2	4096.2	4030.3	4028.7
20°	5603.7	5462.7	5169.7	4840.0	4565.5	4271.1	4045.6	3870.8	3743.5	3660.7	3659.2
22.5°	5807.7	5616.0	5226.5	4754.1	4375.3	4013.4	3732.8	3430.6	3255.8	3087.1	3056.5
25°	6047.0	5770.9	5275.6	4709.7	4188.2	3745.0	3327.9	2886.2	2614.8	2479.8	2429.2
27.5°	6382.8	6028.6	5347.6	4625.3	4011.9	3413.8	2806.5	2324.9	1998.3	1883.3	1883.3
30°	6770.8	6353.7	5482.6	4574.7	3766.5	2949.1	2234.4	1717.6	1414.0	1240.7	1236.1
32.5°	7362.8	6741.7	5605.3	4465.8	3469.0	2443.0	1616.4	1107.3	863.4	756.1	749.9
35°	8213.9	7480.9	5803.1	4356.9	3038.0	1818.8	1026.0	634.9	492.3	430.9	427.9
37.5°	9032.9	8184.8	6229.5	4140.7	2426.1	1142.5	569.0	366.5	300.6	292.9	289.8
40°	9609.5	8792.1	6530.0	3811.0	1723.8	605.8	329.7	265.3	260.7	257.6	256.1
42.5°	10238.3	9243.0	6743.2	3390.8	1022.9	351.2	268.4	239.2	231.6	228.5	228.5
45°	10749.0	9677.0	6783.1	2789.6	515.3	289.8	245.4	217.8	208.6	214.7	216.2
47.5°	11219.8	10086.4	6648.1	2098.0	348.1	269.9	230.0	202.4	196.3	211.6	211.6
50°	11621.6	10433.0	6338.3	1565.8	326.7	254.6	214.7	187.1	185.6	199.4	200.9
52.5°	12021.8	10712.1	5850.7	1182.4	309.8	237.7	199.4	173.3	168.7	177.9	179.4
55°	12339.3	10811.8	5488.7	880.3	297.5	222.4	185.6	159.5	148.8	147.2	150.3
57.5°	12514.1	10724.4	5134.5	647.2	283.7	208.6	171.8	141.1	124.2	124.2	124.2
60°	12517.2	10618.6	4755.7	512.2	268.4	193.2	156.4	121.2	104.3	101.2	101.2
62.5°	12483.4	10430.0	4205.1	444.7	251.5	181.0	136.5	102.8	90.5	85.9	85.9
65°	12334.7	10074.2	3538.0	380.3	231.6	171.8	116.6	92.0	81.3	75.1	75.1
67.5°	11871.5	9407.1	2723.7	331.3	213.2	151.8	105.8	82.8	72.1	65.9	64.4
70°	11021.9	8328.9	1797.4	282.2	194.8	135.0	96.6	75.1	64.4	58.3	56.7
72.5°	9597.2	6778.5	903.3	239.2	167.2	124.2	87.4	65.9	55.2	49.1	49.1
75°	7520.7	4705.1	492.3	190.2	131.9	108.9	76.7	55.2	47.5	42.9	42.9
77.5°	4611.5	2332.6	335.9	147.2	99.7	88.9	61.3	46.0	41.4	39.9	39.9
80°	1682.4	763.7	225.4	104.3	75.1	69.0	49.1	39.9	38.3	38.3	38.3
82.5°	607.3	388.0	151.8	70.5	47.5	52.1	39.9	33.7	32.2	33.7	35.3
85°	250.0	170.2	55.2	39.9	26.1	27.6	24.5	23.0	24.5	26.1	26.1
87.5°	38.3	33.7	19.9	19.9	15.3	13.8	10.7	12.3	15.3	18.4	18.4
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)