

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: P510324

Luminaire Tested: **VERD-M-CA4-250-740-U-T2-HSS**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510324  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/6/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-M-CA4-250-740-U-T2-HSS  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(4) 70 CRI, 4000K, 1130mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

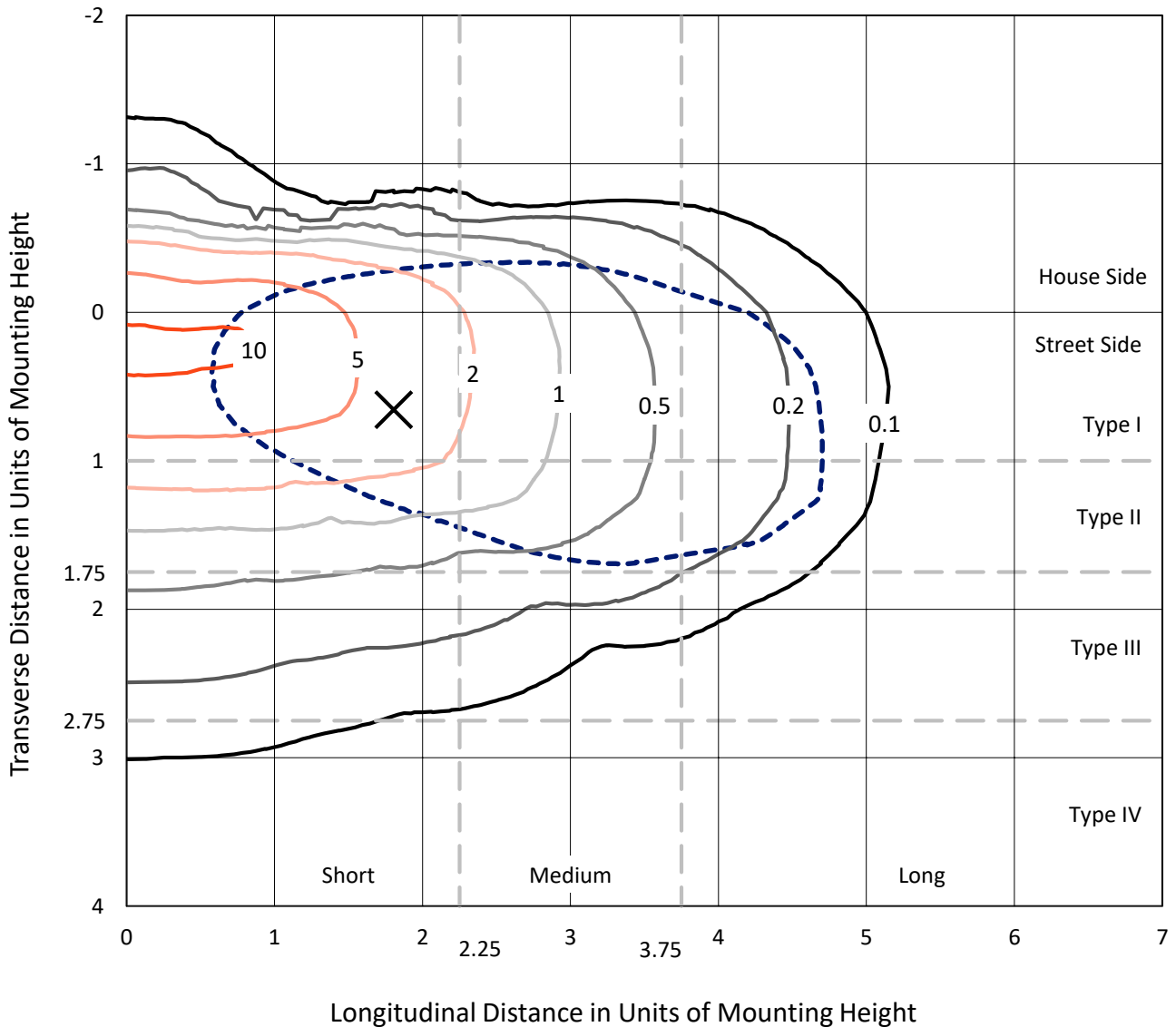
Lumens per Lamp: N/A  
Luminaire Lumens: 31625 lumens  
Efficiency: N/A  
Efficacy: 125.6 lumens/watt  
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 251.7  
Input Voltage (V): NR  
Input Current (Ain): 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

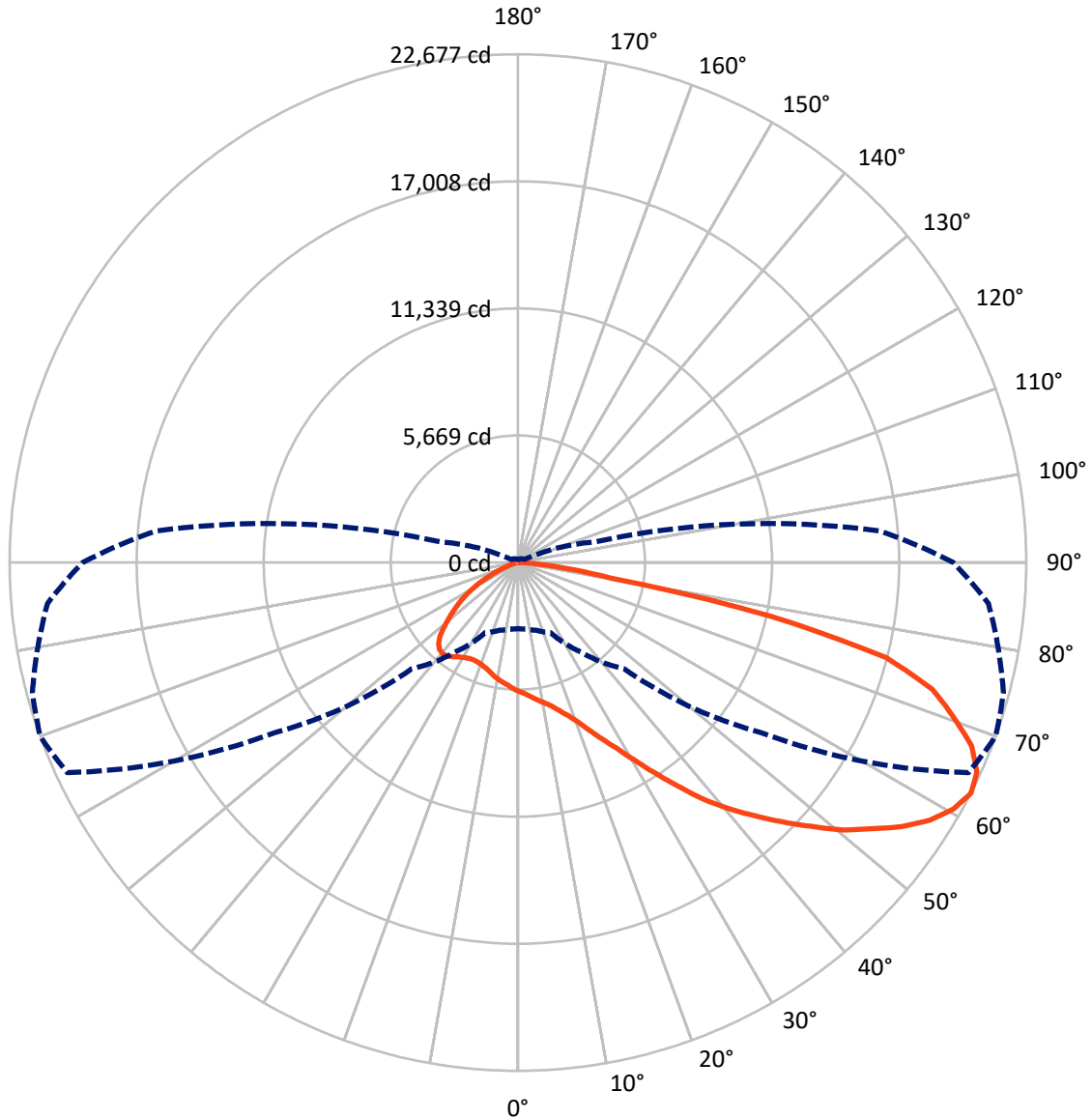
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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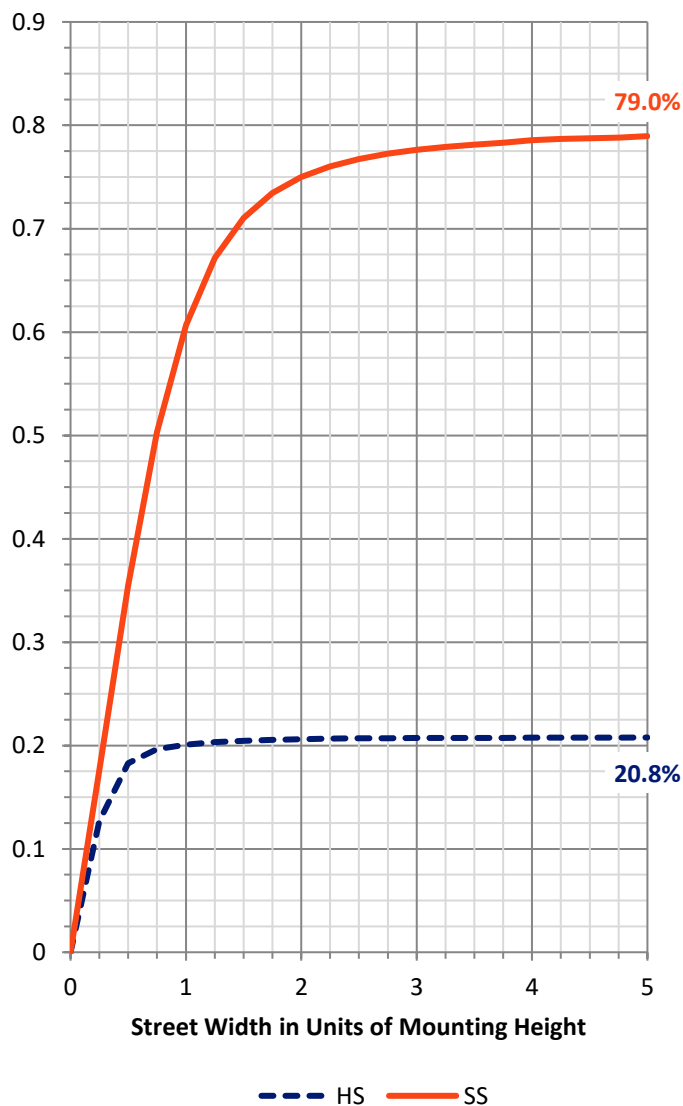
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6650.4	0.0	6650.4
	% Fixture	21.0	0.0	21.0
<b>Street Side</b>	Lumens	24974.6	0.0	24974.6
	% Fixture	79.0	0.0	79.0
<b>Total</b>	Lumens	31625.0	0.0	31625.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	545.9	1.7
10°-20°	1629.0	5.2
20°-30°	2761.6	8.7
30°-40°	4061.2	12.8
40°-50°	5408.2	17.1
50°-60°	6326.5	20.0
60°-70°	6362.9	20.1
70°-80°	4027.8	12.7
80°-90°	501.9	1.6
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°	31625.0	100.0
0°-180°	31625.0	100.0



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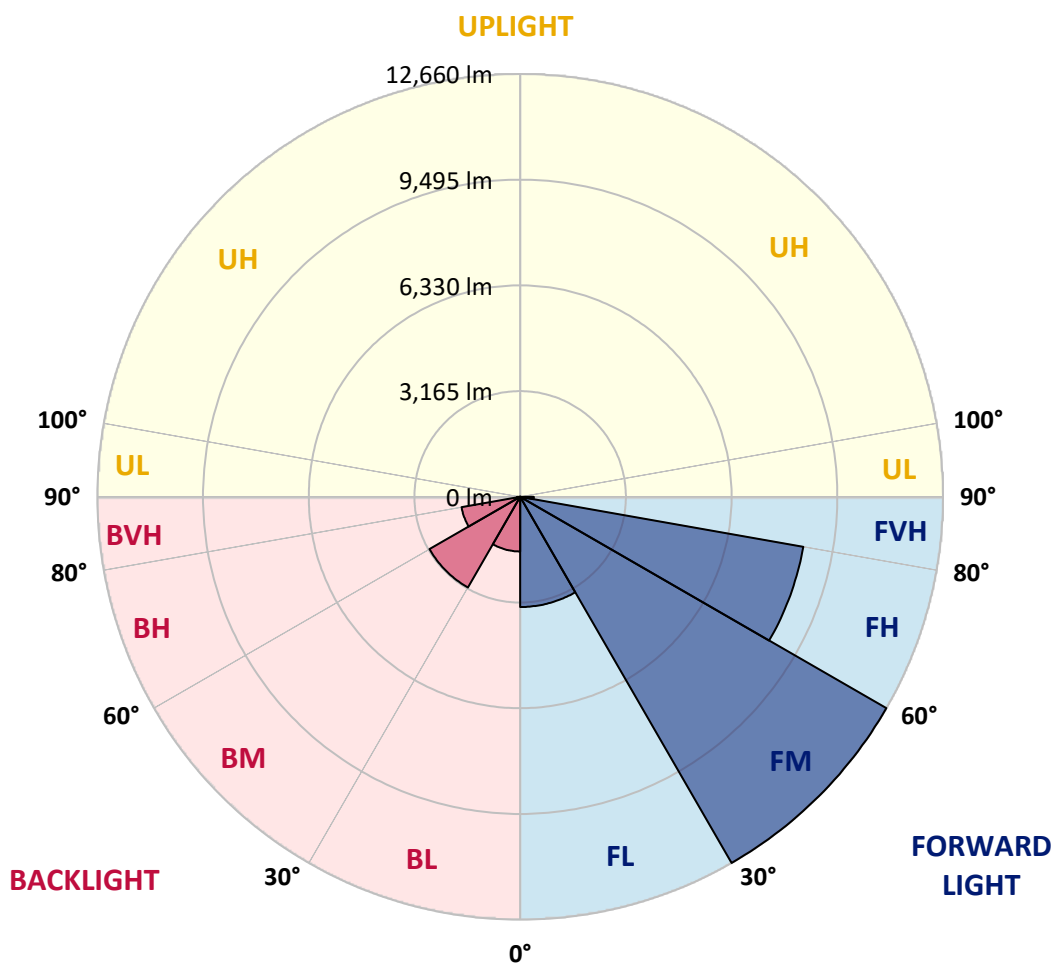
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3299.2	10.4			
FM (30°-60°)	12660.1	40.0			
FH (60°-80°)	8608.3	27.2			G4/12000
FVH (80°-90°)	407.0	1.3			G3/500
BL (0°-30°)	1637.3	5.2	B3/2500		
BM (30°-60°)	3135.8	9.9	B3/5000		
BH (60°-80°)	1782.4	5.6	B3/2500		G3/2500
BVH (80°-90°)	94.9	0.3			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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	5749.4	5749.4	5749.4	5749.4	5749.4	5749.4	5749.4	5749.4	5749.4	5749.4	5749.4
2.5°	6064.9	6118.0	6077.4	6061.7	6074.2	6011.8	5961.8	5889.9	5855.6	5830.6	5790.0
5°	6372.6	6460.0	6406.9	6374.1	6369.4	6255.4	6188.2	6089.8	6013.3	5946.2	5843.1
7.5°	6697.4	6749.0	6728.7	6691.2	6666.2	6527.2	6408.5	6269.5	6185.1	6096.1	5922.7
10°	6981.7	7044.2	7023.9	6956.7	6933.3	6791.1	6655.3	6466.3	6350.7	6239.8	6000.8
12.5°	7275.3	7345.6	7303.4	7236.3	7216.0	7072.3	6931.7	6702.1	6558.4	6433.5	6102.3
15°	7545.5	7609.6	7579.9	7503.4	7483.1	7361.2	7206.6	6992.6	6836.4	6670.9	6246.0
17.5°	7761.1	7825.1	7787.6	7751.7	7745.5	7625.2	7533.0	7314.4	7166.0	6941.1	6466.3
20°	7918.8	7984.4	7965.7	7982.9	8048.5	7959.4	7903.2	7718.9	7567.4	7323.7	6783.3
22.5°	8043.8	8128.1	8203.1	8237.5	8359.3	8353.0	8340.5	8231.2	8112.5	7859.5	7161.3
25°	8056.3	8153.1	8301.5	8462.4	8684.2	8790.4	8868.5	8851.3	8712.3	8462.4	7684.5
27.5°	8075.0	8175.0	8328.0	8604.5	9001.2	9249.6	9379.2	9458.9	9377.6	9210.5	8279.6
30°	8034.4	8137.5	8329.6	8682.6	9218.3	9679.1	9910.3	10205.5	10214.8	10074.3	9177.7
32.5°	7850.1	7986.0	8218.7	8692.0	9429.2	10127.4	10483.5	11050.4	11173.8	11069.2	10103.9
35°	7542.4	7665.8	7998.5	8609.2	9557.3	10500.7	11152.0	12036.0	12218.7	12212.5	11194.1
37.5°	7201.9	7326.9	7701.7	8414.0	9640.0	10833.3	11740.8	13013.7	13377.7	13301.1	12223.4
40°	6825.5	6956.7	7389.3	8168.7	9599.4	11130.1	12364.0	13961.8	14413.2	14422.6	13207.4
42.5°	6388.2	6495.9	6930.1	7829.8	9465.1	11348.8	12943.5	14959.9	15434.7	15408.1	14135.2
45°	5969.6	6082.0	6461.6	7305.0	9154.3	11470.6	13512.0	15970.4	16490.5	16406.2	15166.0
47.5°	5463.5	5624.4	6057.0	6864.5	8674.8	11461.2	14008.7	17004.4	17588.6	17519.8	16056.3
50°	4204.6	4299.9	5279.2	6410.0	8025.0	11242.6	14494.4	18019.6	18758.4	18624.1	17006.0
52.5°	3787.6	3873.5	4189.0	5864.9	7434.6	10769.3	14899.0	19181.7	19734.6	19630.0	17975.9
55°	3579.9	3626.7	3818.8	4837.2	6858.3	10000.8	15169.2	20214.1	20788.9	20557.7	18883.4
57.5°	3319.0	3376.8	3600.2	4131.2	6149.2	8821.6	15106.7	21145.0	21676.0	21321.5	19683.1
60°	3119.1	3162.8	3372.1	3718.9	5416.7	7600.2	14467.9	22058.7	22325.8	21975.9	20479.6
62.5°	2950.4	2975.4	3122.2	3451.8	4859.1	6708.4	13221.5	22180.5	22677.2	22424.2	21073.2
65°	2741.1	2747.4	2920.8	3178.5	4343.6	6172.6	12151.6	21555.8	22502.3	22417.9	21287.1
67.5°	2495.9	2508.4	2683.3	2880.1	3723.6	5602.5	10485.0	21220.0	21822.9	21769.8	20863.9
70°	2188.2	2213.2	2374.1	2524.0	3153.5	4918.4	8345.2	19892.4	20607.7	20529.6	19469.1
72.5°	1891.5	1877.4	2027.3	2175.7	2627.1	4106.2	6325.7	17607.3	19330.1	19255.1	17657.3
75°	1554.1	1544.7	1699.3	1839.9	2153.9	3317.5	4449.9	13021.6	16984.1	17215.3	15225.4
77.5°	957.4	965.3	1054.3	1148.0	1458.8	2478.7	2839.5	7244.1	11537.8	13682.2	11948.5
80°	693.5	693.5	759.1	815.3	965.3	1510.4	1413.5	3020.7	4217.1	6603.7	7451.8
82.5°	449.8	431.1	471.7	520.1	537.3	654.4	646.6	1515.0	2149.2	2586.5	3103.5
85°	234.3	259.3	156.2	220.2	232.7	217.1	223.4	710.7	954.3	1223.0	1346.4
87.5°	35.9	28.1	37.5	51.5	59.4	50.0	43.7	82.8	128.1	170.2	201.5
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°	5749.4	5749.4	5749.4	5749.4	5749.4	5749.4	5749.4	5749.4	5749.4	5749.4	5749.4
2.5°	5763.4	5755.6	5683.8	5579.1	5493.2	5421.4	5374.5	5343.3	5377.6	5315.1	5307.3
5°	5779.0	5725.9	5569.7	5419.8	5304.2	5149.6	5044.9	4974.7	5002.8	4948.1	4926.2
7.5°	5821.2	5724.4	5508.8	5269.8	5051.2	4885.6	4724.7	4570.1	4546.7	4512.3	4513.9
10°	5858.7	5719.7	5438.5	5126.2	4871.6	4579.5	4385.8	4226.5	4190.6	4150.0	4129.7
12.5°	5918.0	5730.6	5351.1	4973.1	4632.6	4295.2	4085.9	3898.5	3862.6	3782.9	3765.7
15°	6036.7	5769.7	5265.2	4784.1	4363.9	4023.5	3753.2	3589.2	3523.6	3434.6	3433.1
17.5°	6191.4	5883.7	5221.4	4606.0	4135.9	3754.8	3469.0	3303.4	3192.5	3139.4	3125.4
20°	6411.6	6032.1	5219.9	4445.2	3898.5	3467.4	3139.4	2952.0	2858.3	2814.5	2788.0
22.5°	6750.5	6250.7	5248.0	4332.7	3659.5	3189.4	2863.0	2605.2	2450.6	2330.4	2347.5
25°	7172.2	6578.7	5312.0	4229.6	3451.8	2923.9	2514.7	2157.0	1880.5	1760.3	1769.6
27.5°	7708.0	6970.8	5477.6	4125.0	3216.0	2638.0	2060.1	1605.6	1396.3	1255.8	1266.7
30°	8393.6	7458.1	5694.7	4043.8	2997.3	2238.2	1551.0	1183.9	999.6	884.0	873.1
32.5°	9213.6	8164.0	5932.1	3989.1	2758.3	1738.4	1118.3	868.4	688.8	623.2	632.6
35°	10228.9	8957.5	6294.5	3909.4	2349.1	1237.0	798.1	587.3	495.1	482.6	484.2
37.5°	11155.1	9769.7	6653.7	3775.1	1854.0	879.3	542.0	446.7	426.4	421.7	428.0
40°	12062.6	10510.0	6978.6	3579.9	1274.5	602.9	398.3	403.0	385.8	373.3	367.0
42.5°	12912.2	11223.8	7233.2	3220.6	871.5	398.3	353.0	367.0	363.9	338.9	328.0
45°	13829.1	11978.2	7373.7	2717.7	548.2	338.9	317.1	342.1	357.7	329.6	317.1
47.5°	14611.6	12713.9	7367.5	2082.0	371.7	320.2	298.3	320.2	338.9	318.6	307.7
50°	15514.3	13323.0	7167.6	1321.4	329.6	296.8	285.8	293.6	318.6	304.6	293.6
52.5°	16517.1	14157.1	6864.5	737.2	312.4	281.1	265.5	274.9	296.8	279.6	285.8
55°	17348.0	14849.0	6152.3	502.9	304.6	262.4	253.0	259.3	268.6	251.5	260.8
57.5°	18089.9	15420.6	5432.3	412.3	293.6	249.9	248.3	235.8	234.3	223.4	214.0
60°	18841.2	15872.0	4460.8	373.3	282.7	251.5	224.9	207.7	193.7	182.7	178.1
62.5°	19417.5	16184.4	3528.3	337.4	267.1	235.8	206.2	178.1	154.6	140.6	140.6
65°	19586.2	16045.4	2483.4	306.1	249.9	221.8	184.3	145.3	117.1	107.8	103.1
67.5°	19045.8	15247.3	1729.0	282.7	232.7	206.2	162.4	118.7	93.7	81.2	78.1
70°	17669.8	13911.8	1019.9	249.9	210.9	179.6	148.4	96.8	76.5	64.0	60.9
72.5°	15636.2	11909.5	635.7	212.4	181.2	146.8	110.9	79.7	60.9	50.0	48.4
75°	12915.3	9283.9	415.5	164.0	143.7	115.6	84.3	64.0	53.1	42.2	39.0
77.5°	10357.0	6567.8	371.7	125.0	106.2	82.8	64.0	53.1	43.7	37.5	37.5
80°	5960.2	3748.6	304.6	85.9	65.6	62.5	50.0	43.7	40.6	35.9	34.4
82.5°	2928.6	1800.9	196.8	53.1	37.5	40.6	42.2	39.0	34.4	31.2	31.2
85°	1009.0	599.8	79.7	34.4	25.0	25.0	26.6	28.1	26.6	25.0	25.0
87.5°	156.2	114.0	21.9	20.3	15.6	14.1	15.6	17.2	17.2	15.6	15.6
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)