

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: P637828

Luminaire Tested: **IFLD-M-SA4D-727-U-66-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637828  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4D-727-U-66-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor  
Light Source: (64) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22060.8 lumens  
Efficiency: N/A  
Efficacy: 88.3 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G2

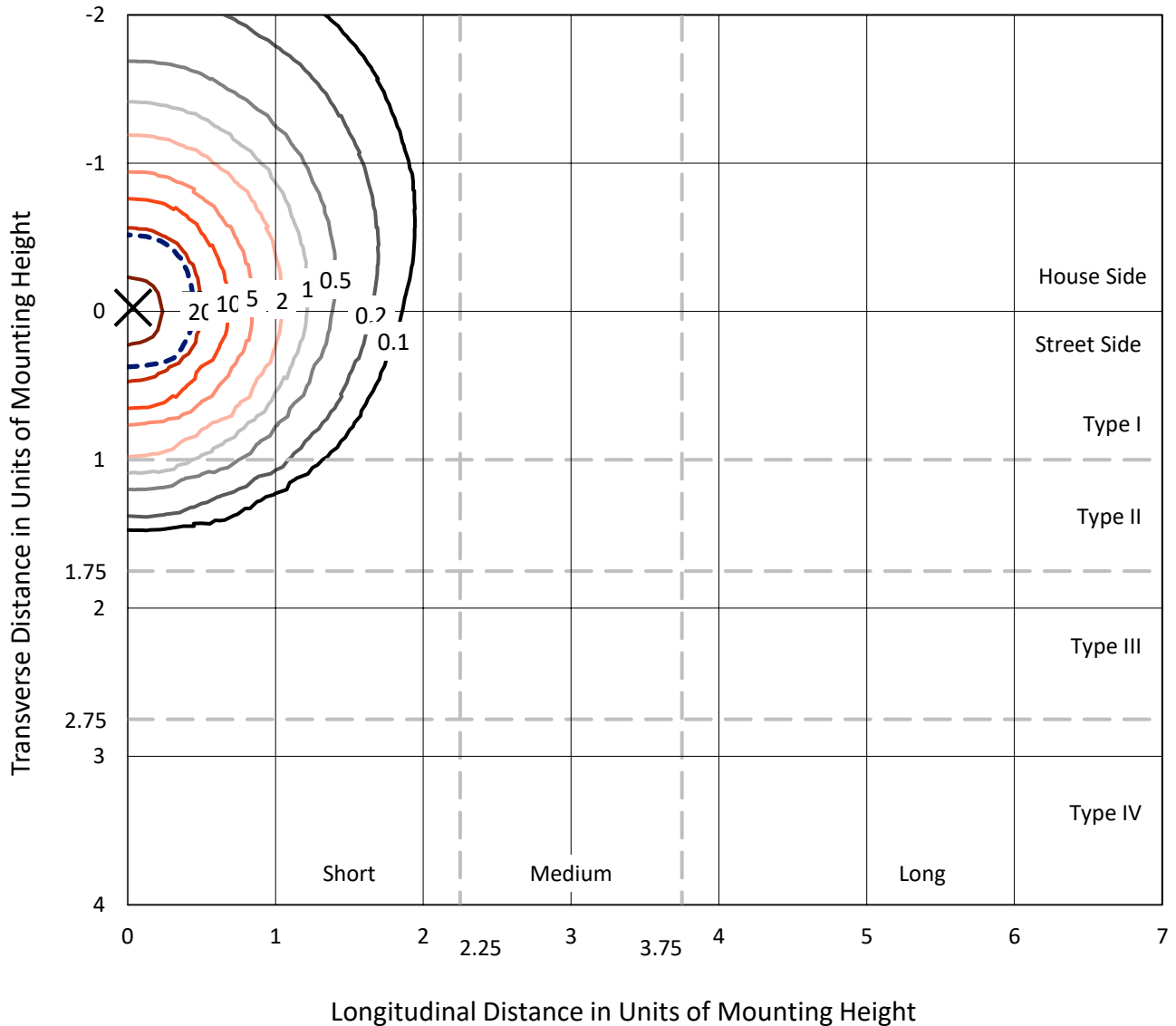
Input Watts (W): 249.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

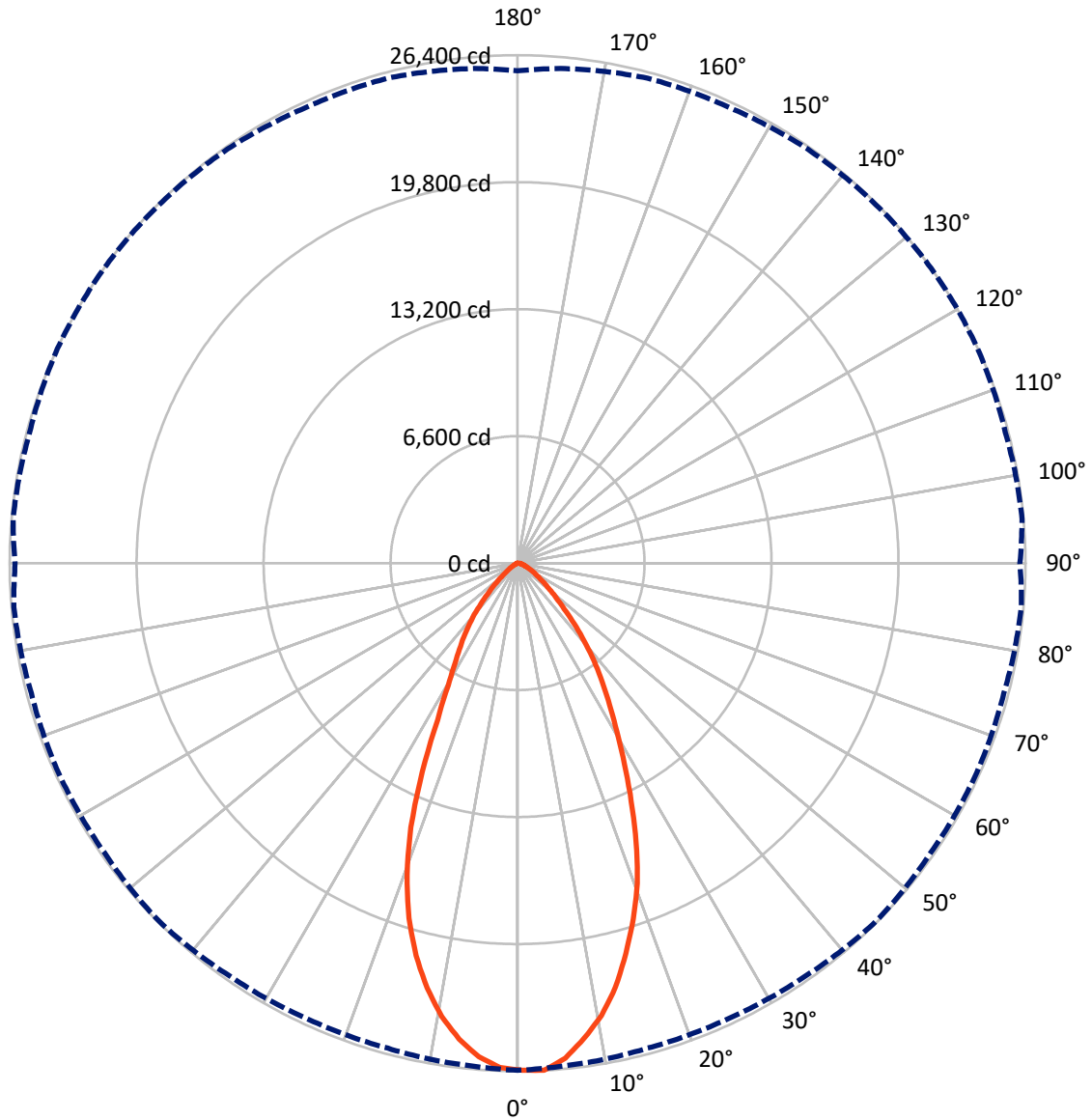
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 65.9 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 125-Deg Lateral    - - - Horizontal Cone Through 2.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12518.2	0.0	12518.2
	% Fixture	56.7	0.0	56.7
<b>Street Side</b>	Lumens	9542.6	0.0	9542.6
	% Fixture	43.3	0.0	43.3
<b>Total</b>	Lumens	22060.8	0.0	22060.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2393.3	10.8
10°-20°	5705.2	25.9
20°-30°	5810.6	26.3
30°-40°	4333.0	19.6
40°-50°	2263.7	10.3
50°-60°	952.1	4.3
60°-70°	388.8	1.8
70°-80°	163.6	0.7
80°-90°	50.4	0.2
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°	22060.8	100.0
0°-180°	22060.8	100.0



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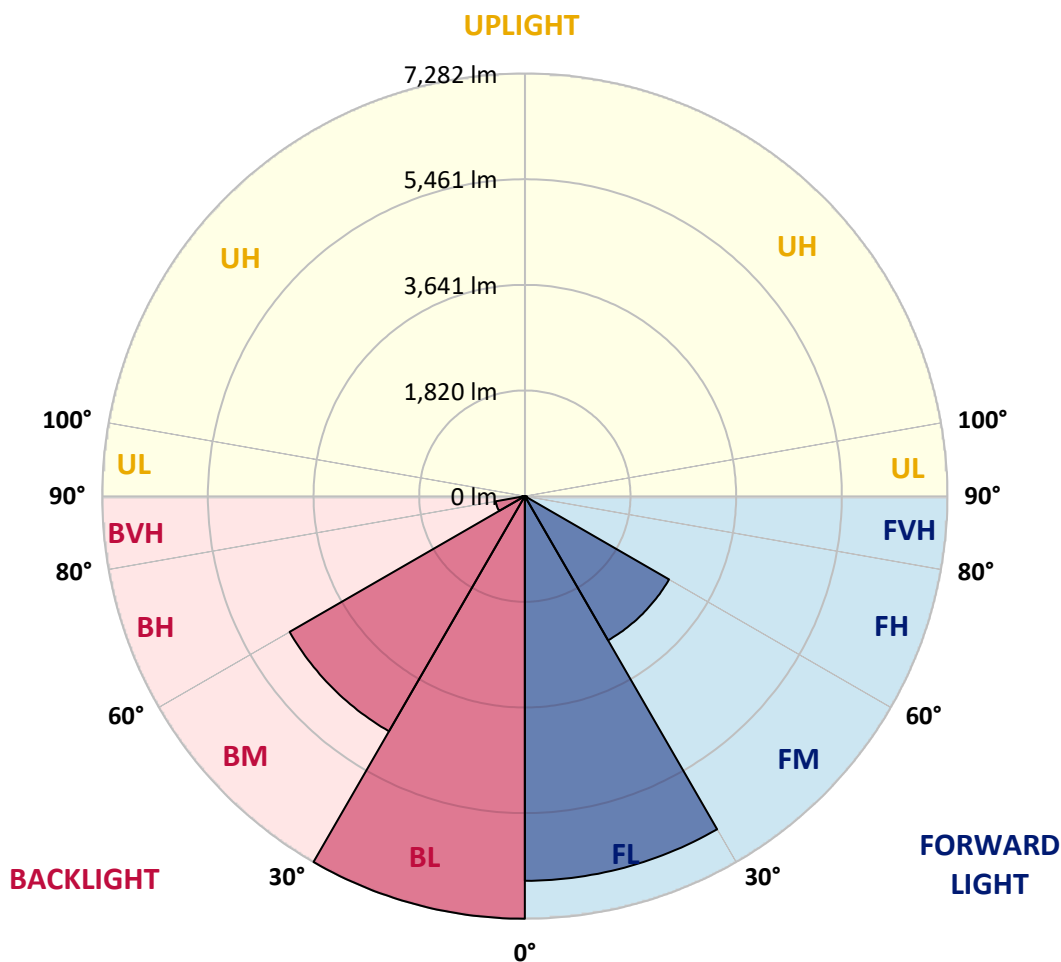
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6627.3	30.0			
FM (30°-60°)	2869.1	13.0			
FH (60°-80°)	41.5	0.2			G0/660
FVH (80°-90°)	4.7	0.0			G0/10
BL (0°-30°)	7281.8	33.0	B5		
BM (30°-60°)	4679.6	21.2	B3/5000		
BH (60°-80°)	511.0	2.3	B2/1000		G2/1000
BVH (80°-90°)	45.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G2**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	26357.3	26357.3	26357.3	26357.3	26357.3	26357.3	26357.3	26357.3	26357.3	26357.3
2.5°	26360.1	26252.4	26099.4	26085.2	26164.6	26337.4	26226.9	26232.6	26164.6	26280.7
5°	25946.4	25844.3	25739.5	25600.6	25716.8	25790.5	25733.8	25671.5	25583.6	25697.0
7.5°	25164.2	25107.5	24951.7	24889.3	24960.2	25042.4	24920.5	24903.5	24781.7	24929.0
10°	23968.4	23945.7	23792.7	23755.8	23818.2	23942.9	23889.0	23877.7	23801.2	23787.0
12.5°	22727.1	22639.3	22449.4	22438.1	22531.6	22718.6	22574.1	22435.3	22477.8	22514.6
15°	19530.6	19437.1	19907.5	20647.1	21035.4	21021.2	21063.7	20896.5	20845.5	20862.5
17.5°	15526.4	15367.7	15537.8	16682.6	18527.4	19598.6	19303.9	18944.0	18751.3	18623.8
20°	13401.1	13409.6	13378.4	13673.1	14823.7	17266.4	17195.6	16501.3	16249.1	16144.2
22.5°	12108.9	12060.7	11992.7	12086.2	12395.1	13829.0	14789.6	14152.0	14064.2	13948.0
25°	10842.2	10842.2	10760.0	10853.5	10941.3	10961.2	11924.7	12185.4	12015.3	12015.3
27.5°	9745.5	9688.8	9652.0	9694.5	9578.3	9020.0	9141.9	10476.6	10360.4	10289.6
30°	8657.3	8640.3	8577.9	8634.6	8203.9	7574.8	7319.7	8841.5	8963.3	8937.8
32.5°	7146.9	7214.9	7492.6	7580.4	6843.6	6336.4	6092.7	7339.6	7827.0	7807.1
35°	4857.1	4913.8	5231.2	6279.7	5673.3	5310.6	5239.7	5837.6	6639.6	6716.1
37.5°	3868.1	3859.6	3950.3	4137.4	4559.6	4471.8	4451.9	4607.8	5415.4	5449.4
40°	3188.0	3176.7	3173.9	3020.8	2916.0	3718.0	3664.1	3570.6	4270.6	4338.6
42.5°	2570.3	2581.6	2590.1	2255.7	2102.7	2867.8	2836.6	2740.3	3349.6	3428.9
45°	2017.7	2014.8	2031.8	1680.4	1637.9	1833.5	2119.7	2043.2	2527.8	2612.8
47.5°	1045.7	1082.5	1312.1	1300.7	1320.6	1300.7	1603.9	1584.1	1901.5	2037.5
50°	702.8	714.1	734.0	736.8	1040.0	957.8	1088.2	1232.7	1331.9	1541.6
52.5°	544.1	552.6	501.6	470.4	637.6	708.5	714.1	853.0	929.5	1142.0
55°	303.2	340.1	365.6	368.4	351.4	524.3	521.4	631.9	691.4	833.1
57.5°	39.7	48.2	73.7	238.0	235.2	291.9	365.6	459.1	493.1	609.3
60°	2.8	5.7	8.5	36.8	155.9	170.0	249.4	286.2	342.9	427.9
62.5°	0.0	0.0	2.8	8.5	31.2	99.2	130.4	150.2	201.2	280.5
65°	0.0	0.0	2.8	5.7	11.3	36.8	51.0	82.2	119.0	172.9
67.5°	0.0	0.0	2.8	5.7	8.5	14.2	22.7	36.8	62.3	104.9
70°	0.0	0.0	2.8	5.7	8.5	11.3	17.0	22.7	34.0	56.7
72.5°	0.0	0.0	2.8	2.8	5.7	14.2	14.2	17.0	22.7	31.2
75°	0.0	0.0	2.8	5.7	8.5	14.2	14.2	14.2	17.0	19.8
77.5°	0.0	0.0	2.8	5.7	8.5	14.2	11.3	14.2	14.2	14.2
80°	0.0	0.0	2.8	5.7	8.5	14.2	17.0	14.2	11.3	11.3
82.5°	0.0	0.0	2.8	8.5	8.5	19.8	19.8	19.8	8.5	8.5
85°	0.0	0.0	5.7	8.5	14.2	22.7	22.7	17.0	8.5	5.7
87.5°	0.0	0.0	2.8	5.7	5.7	11.3	17.0	14.2	5.7	2.8
90°	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°
26357.3	0°	26357.3	26357.3	26357.3	26357.3	26357.3	26357.3	26357.3	26357.3	26357.3
26110.7	2.5°	26320.4	26249.6	26382.8	26399.8	26343.1	26272.2	26107.9	26093.7	25807.5
25532.6	5°	25821.7	25705.5	25790.5	25847.2	25827.3	25750.8	25682.8	25620.5	25362.6
24594.6	7.5°	24892.2	24849.7	24889.3	24931.9	25014.0	24931.9	24903.5	24838.3	24583.3
23670.8	10°	23860.7	23781.3	23931.5	23911.7	23889.0	23866.3	23747.3	23758.7	23458.3
22412.6	12.5°	22594.0	22460.8	22605.3	22622.3	22605.3	22525.9	22392.8	22449.4	22174.6
20712.3	15°	20890.8	20876.7	20981.5	21049.5	21097.7	21012.7	20967.4	20995.7	20831.3
18524.6	17.5°	18799.5	18983.7	19326.6	19442.8	19445.6	19533.4	19507.9	19473.9	19352.1
16101.7	20°	16339.7	16694.0	17221.1	17762.3	17918.2	17844.5	17810.5	17872.8	17691.5
13826.2	22.5°	14069.9	14373.1	14985.2	15775.8	16232.1	16277.4	16268.9	16215.1	16144.2
12004.0	25°	12142.9	12412.1	12998.7	13721.3	14596.9	14727.3	14733.0	14716.0	14653.6
10351.9	27.5°	10516.3	10842.2	11165.2	11811.3	12743.6	13282.1	13214.1	13194.2	13171.5
8957.7	30°	9042.7	9453.6	9756.8	10159.2	10995.2	11723.5	11794.3	11760.3	11706.5
7804.3	32.5°	7875.2	8118.9	8504.3	8776.3	9377.1	10201.7	10473.8	10448.3	10400.1
6764.3	35°	6860.7	6957.0	7260.2	7563.4	7963.0	8762.1	9164.5	9107.9	9099.4
5511.8	37.5°	5650.6	5973.7	6140.9	6446.9	6727.5	7348.1	7903.5	7878.0	7880.8
4432.1	40°	4562.4	4749.5	5081.0	5338.9	5596.8	6050.2	6668.0	6685.0	6679.3
3431.7	42.5°	3502.6	3684.0	4032.5	4313.1	4542.6	4823.1	5412.6	5432.4	5457.9
2672.3	45°	2734.6	2850.8	3105.9	3397.7	3641.4	3811.5	4259.2	4386.7	4389.6
2071.5	47.5°	2122.5	2255.7	2437.1	2717.6	2955.7	3077.5	3403.4	3576.3	3567.8
1589.8	50°	1666.3	1788.1	1935.5	2156.5	2414.4	2510.8	2751.6	2921.7	2913.2
1198.7	52.5°	1275.2	1431.1	1561.4	1731.5	1983.7	2065.8	2238.7	2434.2	2405.9
878.5	55°	966.3	1125.0	1246.9	1388.6	1618.1	1723.0	1842.0	1997.8	2003.5
680.1	57.5°	728.3	892.6	1003.2	1147.7	1320.6	1436.7	1527.4	1694.6	1691.8
464.7	60°	521.4	663.1	796.3	946.5	1079.7	1212.9	1275.2	1433.9	1439.6
328.7	62.5°	376.9	510.1	637.6	768.0	887.0	1017.3	1074.0	1198.7	1215.7
215.4	65°	263.5	357.1	504.4	603.6	736.8	833.1	906.8	1014.5	1034.3
127.5	67.5°	170.0	257.9	399.6	487.4	609.3	691.4	768.0	853.0	878.5
82.2	70°	102.0	195.5	297.5	391.1	501.6	575.3	648.9	722.6	736.8
39.7	72.5°	65.2	136.0	215.4	317.4	402.4	481.7	546.9	600.8	558.3
25.5	75°	36.8	93.5	170.0	249.4	325.9	402.4	456.2	484.6	388.2
17.0	77.5°	22.7	68.0	138.9	201.2	252.2	323.1	357.1	374.1	277.7
11.3	80°	14.2	51.0	116.2	164.4	164.4	238.0	277.7	291.9	201.2
8.5	82.5°	11.3	36.8	90.7	124.7	110.5	178.5	218.2	221.0	141.7
5.7	85°	8.5	28.3	56.7	82.2	76.5	124.7	127.5	141.7	93.5
5.7	87.5°	5.7	17.0	34.0	48.2	42.5	59.5	68.0	76.5	51.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
26357.3  
25583.6  
25155.7  
24529.5  
23356.3  
22095.2  
20633.0  
19170.7  
17561.1  
16008.2  
14443.9  
13038.4  
11638.5  
10272.6  
9005.8  
7790.1  
6580.1  
5372.9  
4315.9  
3536.6  
2913.2  
2408.7  
2003.5  
1686.1  
1425.4  
1210.0  
1028.7  
875.6  
725.5  
518.6  
368.4  
260.7  
187.0  
130.4  
85.0  
45.3  
0.0

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