

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: P638403

Luminaire Tested: **IFLD-S-SA6D-735-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638403
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-735-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (96) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33237 lumens
Efficiency: N/A
Efficacy: 90.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

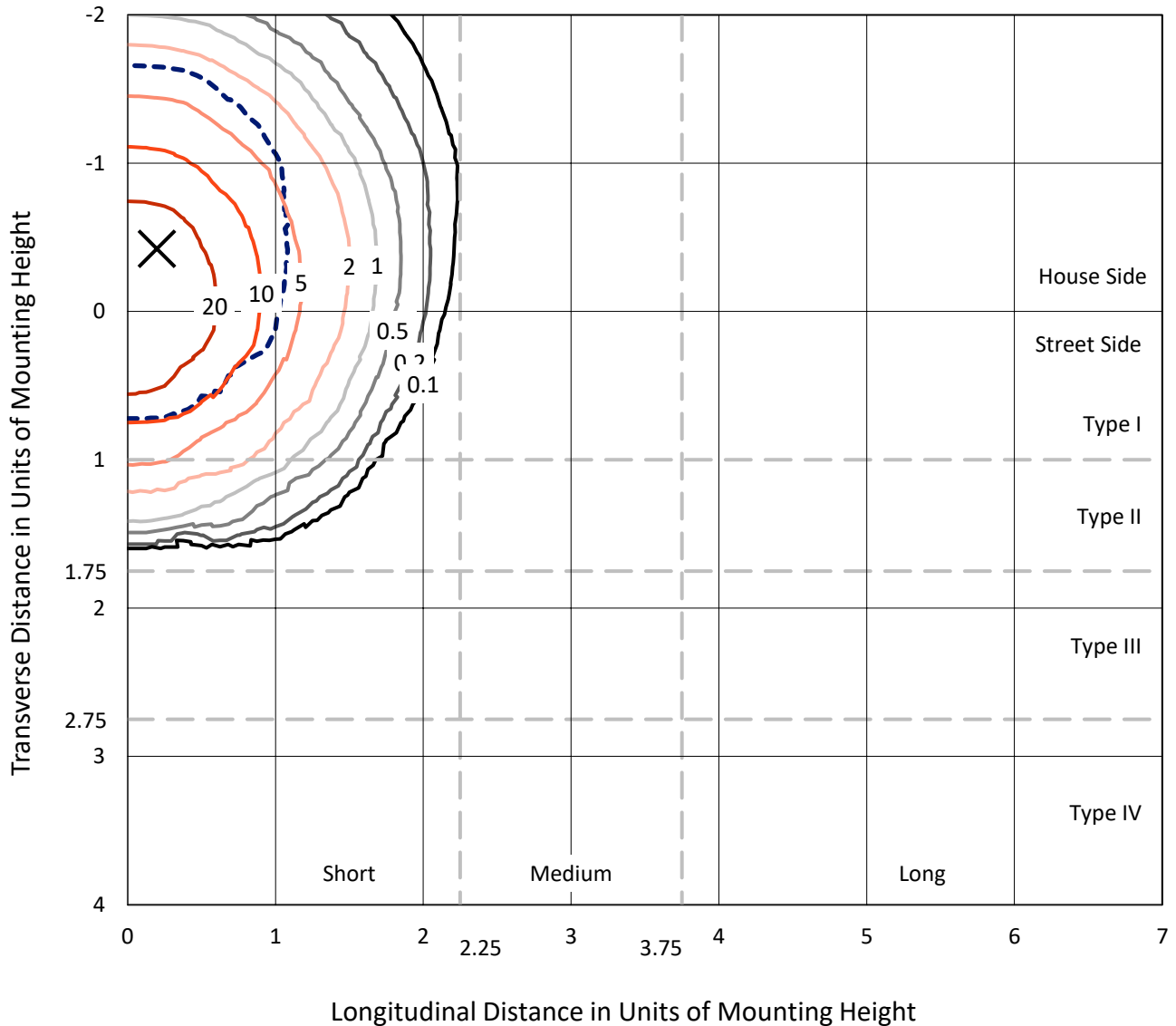
Input Watts (W): 368.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

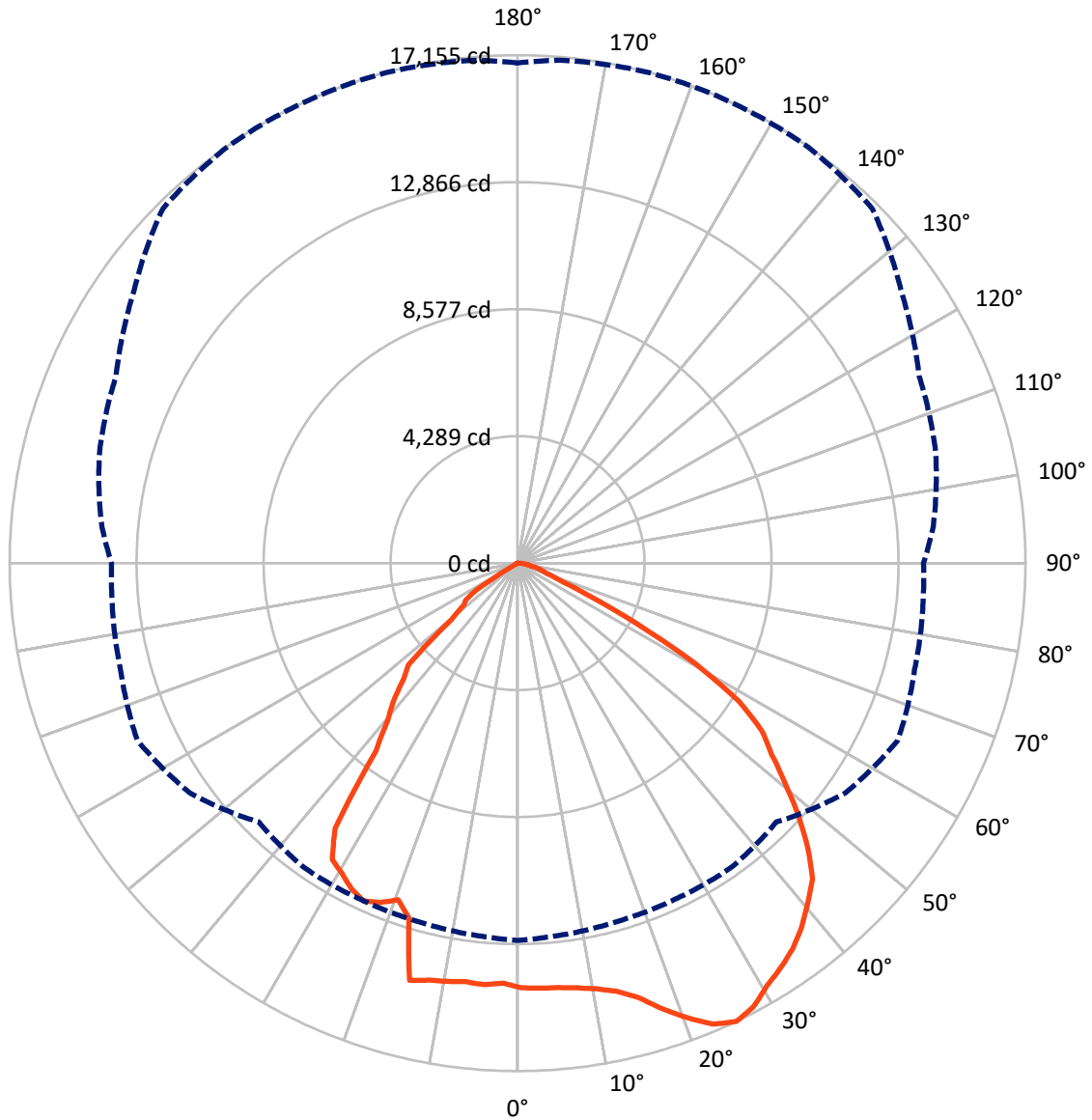
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 35.9 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral - - - Horizontal Cone Through 25-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20577.1	0.0	20577.1
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	12659.9	0.0	12659.9
	% Fixture	38.1	0.0	38.1
Total	Lumens	33237.0	0.0	33237.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1375.8	4.1
10°-20°	4201.1	12.6
20°-30°	6641.7	20.0
30°-40°	7502.3	22.6
40°-50°	7026.1	21.1
50°-60°	4844.0	14.6
60°-70°	1301.4	3.9
70°-80°	271.2	0.8
80°-90°	73.4	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°	33237.0	100.0
0°-180°	33237.0	100.0



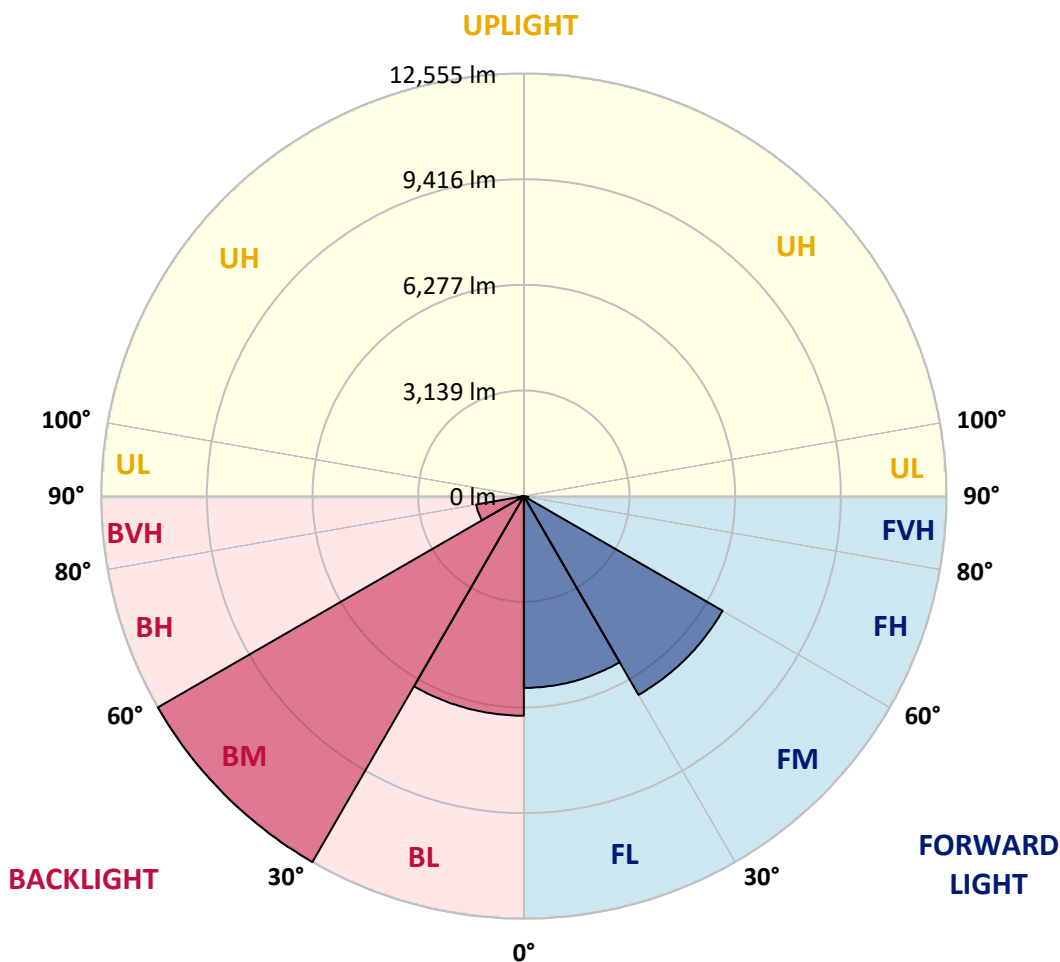
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5695.8	17.1			
FM (30°-60°)	6817.7	20.5			
FH (60°-80°)	136.6	0.4			G0/660
FVH (80°-90°)	9.8	0.0			G0/10
BL (0°-30°)	6522.8	19.6	B5		
BM (30°-60°)	12554.8	37.8	B5		
BH (60°-80°)	1436.0	4.3	B3/2500		G3/2500
BVH (80°-90°)	63.5	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-G3

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	14341.2	14341.2	14341.2	14341.2	14341.2	14341.2	14341.2	14341.2	14341.2	14341.2
2.5°	14404.7	14311.9	14223.9	14194.6	14316.7	14448.6	14365.6	14370.5	14341.2	14394.9
5°	14512.1	14385.1	14326.5	14282.6	14302.1	14438.9	14321.6	14365.6	14316.7	14380.2
7.5°	14473.1	14385.1	14326.5	14243.5	14307.0	14468.2	14355.8	14360.7	14336.3	14394.9
10°	14448.6	14385.1	14311.9	14321.6	14394.9	14531.7	14443.7	14492.6	14458.4	14492.6
12.5°	14507.2	14438.9	14399.8	14399.8	14463.3	14619.6	14575.6	14619.6	14604.9	14634.2
15°	13955.3	14018.8	14390.0	14556.1	14683.1	14839.4	14819.9	14863.8	14873.6	14917.6
17.5°	11771.9	11708.4	11679.1	12533.9	14805.2	15288.8	15274.1	15269.2	15220.4	15186.2
20°	12060.1	12035.6	12001.5	12065.0	12318.9	15523.2	15620.9	15020.1	14844.3	14829.6
22.5°	12519.2	12480.1	12353.1	12358.0	12436.2	13496.1	15137.4	14590.3	14531.7	14497.5
25°	12743.9	12665.8	12563.2	12533.9	12558.3	12362.9	13520.6	14170.2	13882.0	13750.1
27.5°	12348.3	12353.1	12270.1	12348.3	12255.4	11376.2	10882.9	13349.6	13339.8	13281.2
30°	12050.3	12035.6	11938.0	12035.6	11395.8	10414.0	10203.9	12450.8	12348.3	12270.1
32.5°	11136.9	11146.6	11430.0	11811.0	10760.8	9984.1	9349.1	11122.2	12094.3	12050.3
35°	7966.8	7986.3	8992.5	10873.1	9798.5	9129.3	9080.5	9612.9	11693.7	11713.3
37.5°	7668.8	7668.8	7644.4	7952.1	9041.4	8782.5	8880.2	8826.5	10711.9	10760.8
40°	7453.9	7409.9	7375.7	6892.2	6286.5	8538.3	8606.7	8362.4	10125.8	10135.5
42.5°	7195.0	7146.2	7155.9	6262.1	5627.1	7932.6	7742.1	7414.8	9148.8	9158.6
45°	6721.2	6804.2	6862.9	5480.5	5431.7	5666.1	7141.3	6936.1	8489.4	8670.2
47.5°	3419.2	3492.5	5358.4	5040.9	5153.2	5036.0	6032.5	6037.4	7063.1	7663.9
50°	3101.7	3082.2	3087.1	2940.5	4757.6	4073.8	4361.9	5534.2	5656.4	6516.1
52.5°	2891.7	2886.8	2588.8	2300.6	2989.4	3585.3	3165.2	4005.4	4205.6	5519.6
55°	2139.5	2295.8	2041.8	2163.9	1870.8	2872.1	2857.5	3614.6	3683.0	4425.4
57.5°	19.5	24.4	58.6	1646.1	1294.4	1436.1	1973.4	2466.7	2588.8	3448.5
60°	4.9	9.8	24.4	48.8	840.2	884.1	1318.8	1426.3	1607.0	2056.4
62.5°	0.0	0.0	9.8	24.4	44.0	361.5	420.1	459.2	708.3	1050.2
65°	0.0	0.0	4.9	14.7	24.4	58.6	102.6	214.9	307.7	381.0
67.5°	0.0	0.0	4.9	9.8	19.5	29.3	58.6	83.0	131.9	224.7
70°	0.0	0.0	4.9	9.8	14.7	24.4	39.1	58.6	78.2	112.3
72.5°	0.0	0.0	4.9	9.8	9.8	29.3	29.3	44.0	58.6	73.3
75°	0.0	0.0	4.9	4.9	9.8	19.5	29.3	34.2	39.1	58.6
77.5°	0.0	0.0	4.9	9.8	14.7	19.5	24.4	39.1	34.2	34.2
80°	0.0	0.0	4.9	14.7	14.7	24.4	29.3	39.1	24.4	24.4
82.5°	0.0	0.0	4.9	19.5	14.7	48.8	48.8	53.7	19.5	19.5
85°	0.0	0.0	14.7	9.8	29.3	48.8	44.0	29.3	24.4	14.7
87.5°	0.0	0.0	4.9	4.9	9.8	14.7	34.2	29.3	9.8	9.8
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°
14341.2	0°	14341.2	14341.2	14341.2	14341.2	14341.2	14341.2	14341.2	14341.2	14341.2
14253.2	2.5°	14448.6	14385.1	14517.0	14502.4	14438.9	14409.6	14375.4	14346.1	14131.1
14263.0	5°	14453.5	14355.8	14517.0	14487.7	14477.9	14429.1	14399.8	14443.7	14248.4
14302.1	7.5°	14453.5	14355.8	14531.7	14541.4	14526.8	14487.7	14482.8	14512.1	14350.9
14370.5	10°	14551.2	14512.1	14658.7	14673.3	14653.8	14644.0	14619.6	14600.1	14429.1
14604.9	12.5°	14756.4	14678.2	14844.3	14888.2	14873.6	14898.0	14839.4	14868.7	14692.9
14844.3	15°	15005.5	15010.4	15137.4	15235.1	15225.3	15303.4	15215.5	15293.7	15166.7
15117.8	17.5°	15386.5	15440.2	15620.9	15767.5	15821.2	15879.8	15821.2	15845.6	15664.9
14815.0	20°	14985.9	15186.2	16055.7	16324.3	16436.7	16490.4	16392.7	16422.0	16241.3
14443.7	22.5°	14624.5	14883.4	15655.1	16495.3	16842.1	16949.5	16915.4	16910.5	16842.1
13711.1	25°	14092.1	14614.7	14961.5	15850.5	16939.8	17135.2	17154.7	17149.8	17047.2
13261.7	27.5°	13437.5	13554.8	14453.5	14995.7	16255.9	16998.4	16969.1	16827.4	16690.7
12328.7	30°	12602.3	13134.7	13540.1	14404.7	15371.8	16578.3	16578.3	16470.9	16329.2
11996.6	32.5°	12177.3	12866.0	13242.1	13554.8	14380.2	16109.4	16304.8	16192.4	16080.1
11737.7	35°	11952.6	12055.2	12934.4	13217.7	13916.2	15205.7	15997.0	15884.7	15801.7
11049.0	37.5°	11459.3	11698.6	12108.9	12866.0	13080.9	14468.2	15586.7	15528.1	15430.4
10155.1	40°	10360.2	11000.1	11630.2	12348.3	12572.9	13520.6	15088.5	15112.9	14981.1
9202.6	42.5°	9710.6	10145.3	11132.0	11615.6	12221.3	12910.0	14604.9	14644.0	14551.2
8719.0	45°	8948.6	9432.2	10125.8	11005.0	11830.5	12069.8	13750.1	14160.4	14082.3
7756.7	47.5°	8250.1	8640.8	9490.8	10379.8	11293.2	11259.0	12768.3	13540.1	13432.6
7019.2	50°	7258.5	7942.4	8342.9	9158.6	10521.4	10614.2	11723.0	12812.3	12724.4
5964.1	52.5°	6120.4	6980.1	7747.0	8494.3	9739.9	9959.7	10751.0	12069.8	12011.2
4557.3	55°	5348.6	5973.9	6838.4	7439.2	8792.3	9378.4	10023.2	11361.6	11332.3
3746.5	57.5°	3805.1	5011.6	5724.7	6564.9	7278.0	8338.0	8816.7	9920.6	9647.1
2076.0	60°	2579.1	3145.7	4015.1	4918.8	5397.5	6457.4	6901.9	7786.0	7712.8
1240.7	62.5°	1362.8	1885.5	2505.8	2960.1	3306.9	4337.5	4523.1	5475.6	5451.2
498.2	65°	600.8	796.2	1357.9	1592.4	1949.0	2427.6	2588.8	2930.8	2847.7
244.2	67.5°	312.6	473.8	766.9	942.7	1187.0	1367.7	1499.6	1607.0	1675.4
161.2	70°	190.5	346.8	473.8	654.5	815.7	962.3	1064.8	1211.4	1299.3
83.0	72.5°	141.7	219.8	327.3	503.1	591.0	762.0	864.6	972.0	1050.2
68.4	75°	78.2	146.5	263.8	395.7	473.8	620.3	713.2	786.4	810.8
39.1	77.5°	48.8	112.3	219.8	307.7	371.2	503.1	478.7	547.1	605.7
29.3	80°	34.2	83.0	171.0	254.0	258.9	322.4	381.0	439.6	478.7
19.5	82.5°	24.4	68.4	127.0	195.4	171.0	249.1	298.0	341.9	249.1
14.7	85°	19.5	48.8	63.5	117.2	97.7	175.8	151.4	146.5	97.7
9.8	87.5°	14.7	24.4	44.0	53.7	39.1	39.1	48.8	58.6	48.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
14341.2
13984.6
14082.3
14165.3
14287.4
14536.6
14956.6
15508.6
16114.3
16622.3
16890.9
16583.2
16275.5
15987.3
15684.4
15332.7
14951.7
14541.4
14092.1
13510.8
12739.0
12050.3
11366.5
9617.8
7717.7
5456.1
2813.5
1675.4
1304.2
1064.8
796.2
615.5
483.6
180.7
97.7
48.8
0.0

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