

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: P637809

Luminaire Tested: **IFLD-L-SA8D-722-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637809
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-722-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (128) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34625.4 lumens
Efficiency: N/A
Efficacy: 70.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

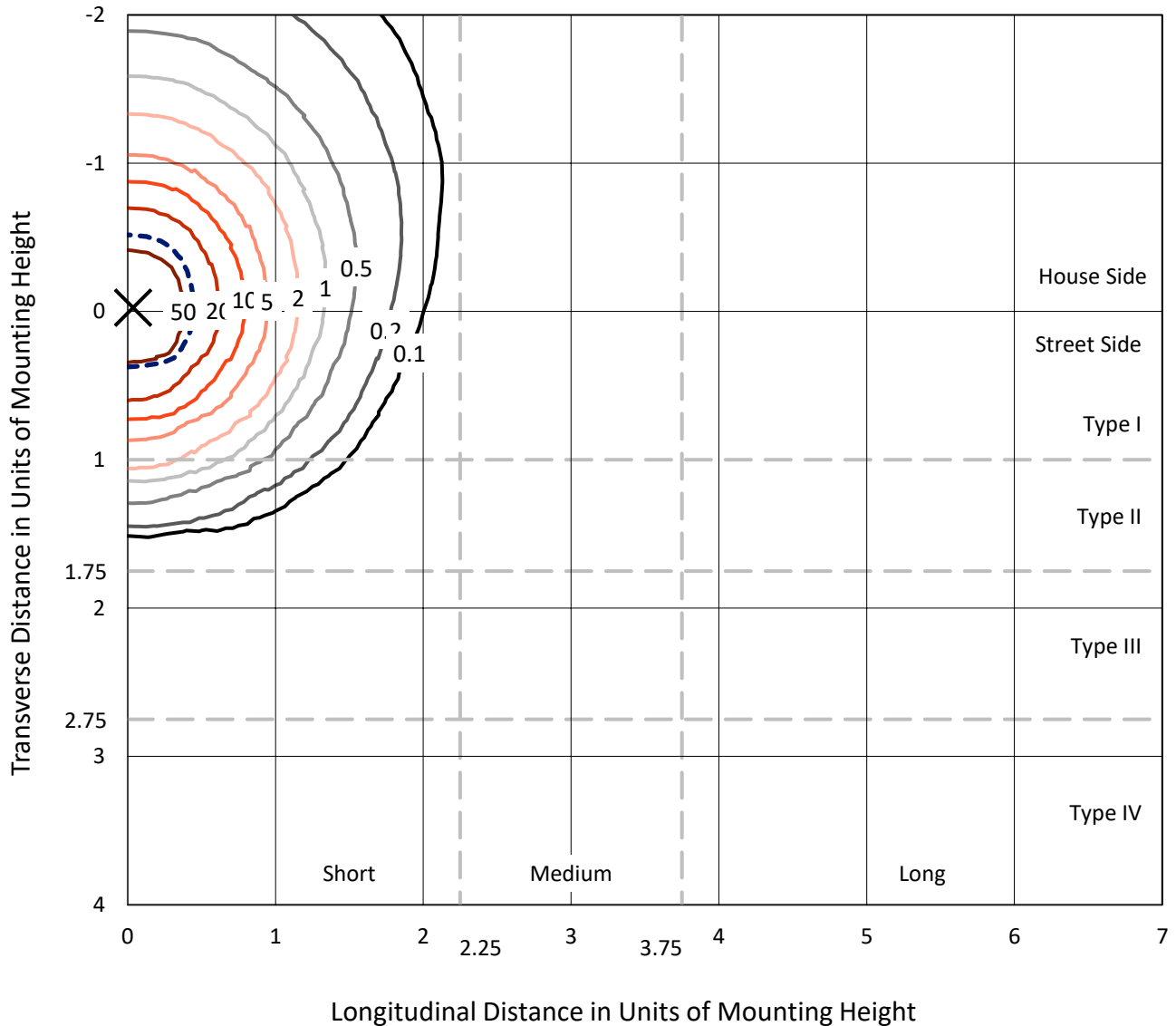
Input Watts (W): 488.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P637809
 CATALOG NUMBER: IFLD-L-SA8D-722-U-66-VI

Iso-Footcandle Lines of Horizontal Illumination

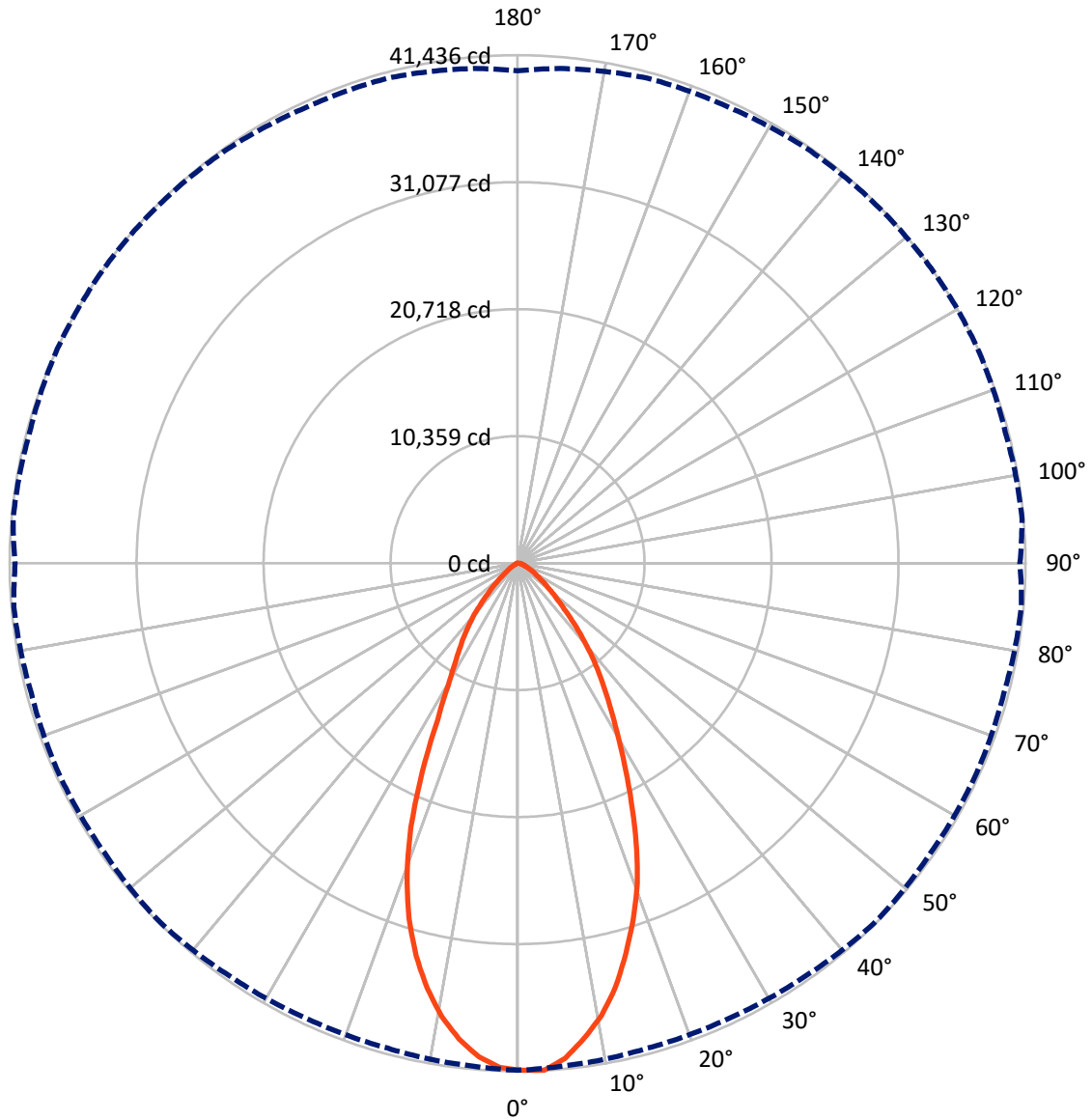
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 103.4 fc
 Type I - Short - N/A

REPORT NUMBER: P637809
CATALOG NUMBER: IFLD-L-SA8D-722-U-66-VI

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
House Side	Lumens	19647.8	0.0	19647.8
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	14977.6	0.0	14977.6
	% Fixture	43.3	0.0	43.3
Total	Lumens	34625.4	0.0	34625.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3756.5	10.8
10°-20°	8954.6	25.9
20°-30°	9120.1	26.3
30°-40°	6800.8	19.6
40°-50°	3552.9	10.3
50°-60°	1494.4	4.3
60°-70°	610.3	1.8
70°-80°	256.8	0.7
80°-90°	79.1	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°	34625.4	100.0
0°-180°	34625.4	100.0



REPORT NUMBER: P637809

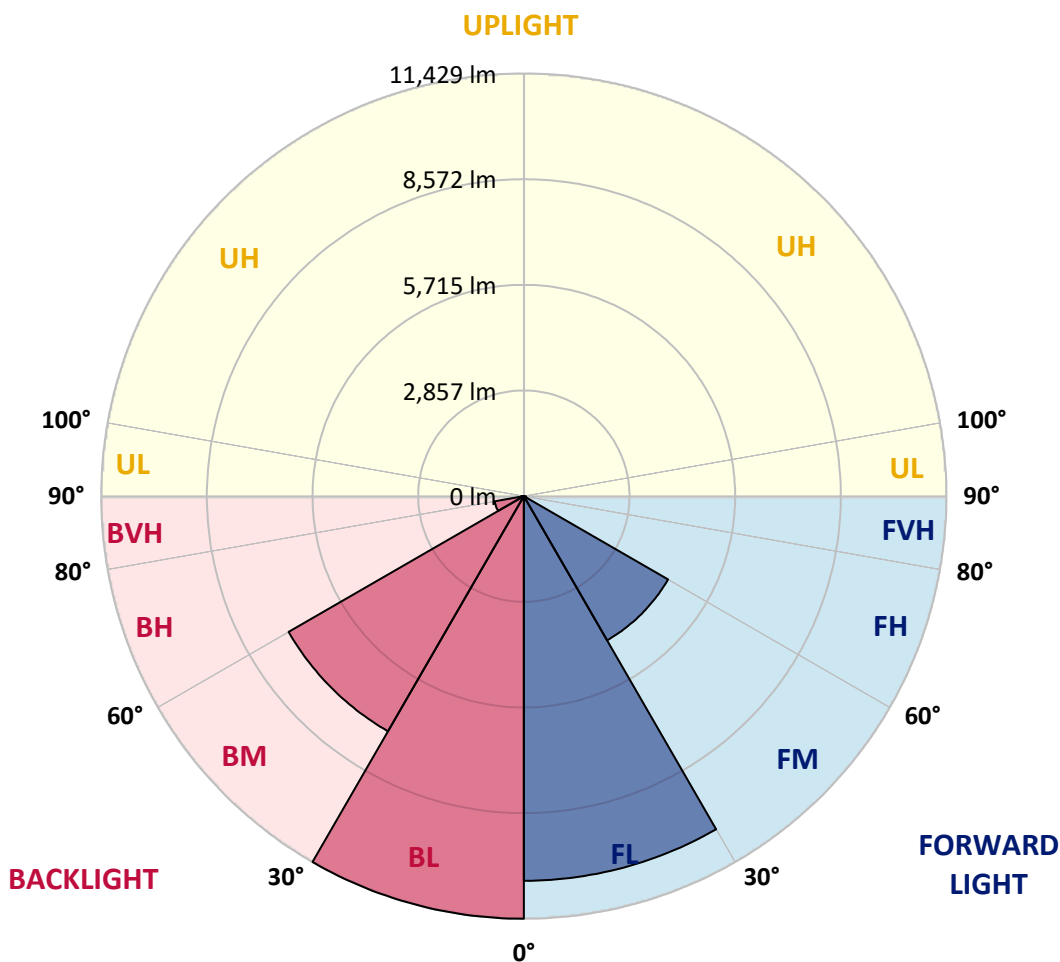
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	10401.9	30.0			
FM (30°-60°)	4503.2	13.0			
FH (60°-80°)	65.1	0.2			G0/660
FVH (80°-90°)	7.3	0.0			G0/10
BL (0°-30°)	11429.2	33.0	B5		
BM (30°-60°)	7344.9	21.2	B4/8500		
BH (60°-80°)	802.0	2.3	B2/1000		G2/1000
BVH (80°-90°)	71.8	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





REPORT NUMBER: P637809
 CATALOG NUMBER: IFLD-L-SA8D-722-U-66-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	41369.0	41369.0	41369.0	41369.0	41369.0	41369.0	41369.0	41369.0	41369.0	41369.0
2.5°	41373.5	41204.4	40964.3	40942.0	41066.6	41337.9	41164.4	41173.3	41066.6	41248.9
5°	40724.1	40564.0	40399.4	40181.4	40363.8	40479.4	40390.5	40292.6	40154.8	40332.7
7.5°	39496.5	39407.5	39162.9	39065.0	39176.2	39305.2	39114.0	39087.3	38896.0	39127.3
10°	37619.5	37583.9	37343.7	37285.9	37383.8	37579.5	37495.0	37477.2	37357.1	37334.9
12.5°	35671.4	35533.5	35235.5	35217.7	35364.5	35658.0	35431.2	35213.2	35280.0	35337.8
15°	30654.3	30507.5	31245.8	32406.7	33016.0	32993.8	33060.5	32798.1	32718.0	32744.7
17.5°	24369.5	24120.4	24387.3	26184.2	29079.7	30761.0	30298.4	29733.6	29431.1	29231.0
20°	21033.7	21047.0	20998.1	21460.6	23266.5	27100.5	26989.3	25899.6	25503.7	25339.1
22.5°	19005.5	18929.8	18823.1	18969.9	19454.7	21705.3	23213.1	22212.3	22074.4	21892.1
25°	17017.3	17017.3	16888.3	17035.1	17173.0	17204.1	18716.4	19125.5	18858.7	18858.7
27.5°	15296.0	15207.0	15149.2	15215.9	15033.6	14157.4	14348.6	16443.5	16261.2	16150.0
30°	13588.0	13561.3	13463.5	13552.5	12876.4	11889.0	11488.7	13877.1	14068.4	14028.4
32.5°	11217.4	11324.1	11760.0	11897.9	10741.4	9945.3	9562.8	11519.8	12284.8	12253.7
35°	7623.5	7712.5	8210.6	9856.3	8904.5	8335.2	8224.0	9162.5	10421.2	10541.3
37.5°	6071.2	6057.9	6200.2	6493.8	7156.5	7018.6	6987.5	7232.1	8499.7	8553.1
40°	5003.8	4986.0	4981.5	4741.4	4576.8	5835.5	5751.0	5604.2	6702.8	6809.6
42.5°	4034.2	4051.9	4065.3	3540.5	3300.3	4501.2	4452.2	4301.0	5257.3	5381.8
45°	3166.8	3162.4	3189.1	2637.5	2570.8	2877.7	3327.0	3206.9	3967.4	4100.9
47.5°	1641.2	1699.1	2059.3	2041.5	2072.7	2041.5	2517.5	2486.3	2984.5	3198.0
50°	1103.1	1120.8	1152.0	1156.4	1632.3	1503.4	1708.0	1934.8	2090.5	2419.6
52.5°	854.0	867.3	787.3	738.3	1000.8	1112.0	1120.8	1338.8	1458.9	1792.5
55°	475.9	533.7	573.8	578.2	551.5	822.8	818.4	991.9	1085.3	1307.7
57.5°	62.3	75.6	115.6	373.6	369.2	458.1	573.8	720.5	773.9	956.3
60°	4.4	8.9	13.3	57.8	244.6	266.9	391.4	449.2	538.2	671.6
62.5°	0.0	0.0	4.4	13.3	48.9	155.7	204.6	235.7	315.8	440.3
65°	0.0	0.0	4.4	8.9	17.8	57.8	80.1	129.0	186.8	271.3
67.5°	0.0	0.0	4.4	8.9	13.3	22.2	35.6	57.8	97.9	164.6
70°	0.0	0.0	4.4	8.9	13.3	17.8	26.7	35.6	53.4	89.0
72.5°	0.0	0.0	4.4	4.4	8.9	22.2	22.2	26.7	35.6	48.9
75°	0.0	0.0	4.4	8.9	13.3	22.2	22.2	22.2	26.7	31.1
77.5°	0.0	0.0	4.4	8.9	13.3	22.2	17.8	22.2	22.2	22.2
80°	0.0	0.0	4.4	8.9	13.3	22.2	26.7	22.2	17.8	17.8
82.5°	0.0	0.0	4.4	13.3	13.3	31.1	31.1	31.1	13.3	13.3
85°	0.0	0.0	8.9	13.3	22.2	35.6	35.6	26.7	13.3	8.9
87.5°	0.0	0.0	4.4	8.9	8.9	17.8	26.7	22.2	8.9	4.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P637809

CATALOG NUMBER: IFLD-L-SA8D-722-U-66-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
41369.0	0°	41369.0	41369.0	41369.0	41369.0	41369.0	41369.0	41369.0	41369.0	41369.0
40982.0	2.5°	41311.2	41200.0	41409.0	41435.7	41346.8	41235.6	40977.6	40955.4	40506.1
40074.7	5°	40528.4	40346.0	40479.4	40568.4	40537.3	40417.2	40310.4	40212.6	39807.8
38602.5	7.5°	39069.5	39002.8	39065.0	39131.8	39260.7	39131.8	39087.3	38985.0	38584.7
37152.5	10°	37450.5	37326.0	37561.7	37530.6	37495.0	37459.4	37272.6	37290.4	36818.9
35177.7	12.5°	35462.3	35253.3	35480.1	35506.8	35480.1	35355.6	35146.5	35235.5	34804.1
32509.0	15°	32789.2	32767.0	32931.5	33038.3	33113.9	32980.5	32909.3	32953.8	32695.8
29075.3	17.5°	29506.7	29795.8	30334.0	30516.4	30520.8	30658.7	30618.7	30565.3	30374.0
25272.4	20°	25646.0	26202.0	27029.3	27878.8	28123.5	28007.8	27954.4	28052.3	27767.6
21700.8	22.5°	22083.3	22559.3	23520.0	24760.9	25477.0	25548.2	25534.8	25450.3	25339.1
18840.9	25°	19058.8	19481.4	20402.1	21536.3	22910.6	23115.2	23124.1	23097.4	22999.6
16247.8	27.5°	16505.8	17017.3	17524.3	18538.4	20001.8	20846.8	20740.1	20709.0	20673.4
14059.5	30°	14192.9	14837.9	15313.8	15945.4	17257.5	18400.6	18511.8	18458.4	18373.9
12249.2	32.5°	12360.4	12743.0	13347.9	13774.8	14717.8	16012.1	16439.1	16399.0	16323.4
10616.9	35°	10768.1	10919.4	11395.3	11871.2	12498.3	13752.6	14384.2	14295.2	14281.9
8651.0	37.5°	8868.9	9376.0	9638.4	10118.7	10559.1	11533.2	12404.9	12364.9	12369.3
6956.4	40°	7161.0	7454.5	7974.9	8379.7	8784.4	9496.1	10465.7	10492.4	10483.5
5386.3	42.5°	5497.5	5782.1	6329.2	6769.6	7129.8	7570.2	8495.3	8526.4	8566.5
4194.3	45°	4292.1	4474.5	4874.8	5332.9	5715.4	5982.3	6685.0	6885.2	6889.6
3251.3	47.5°	3331.4	3540.5	3825.1	4265.4	4639.1	4830.3	5341.8	5613.1	5599.8
2495.2	50°	2615.3	2806.6	3037.8	3384.8	3789.5	3940.8	4318.8	4585.7	4572.3
1881.4	52.5°	2001.5	2246.1	2450.7	2717.6	3113.5	3242.4	3513.8	3820.7	3776.2
1378.8	55°	1516.7	1765.8	1957.0	2179.4	2539.7	2704.3	2891.1	3135.7	3144.6
1067.5	57.5°	1143.1	1401.1	1574.5	1801.4	2072.7	2255.0	2397.4	2659.8	2655.3
729.4	60°	818.4	1040.8	1249.8	1485.6	1694.6	1903.7	2001.5	2250.6	2259.5
515.9	62.5°	591.6	800.6	1000.8	1205.4	1392.2	1596.8	1685.7	1881.4	1908.1
338.0	65°	413.6	560.4	791.7	947.4	1156.4	1307.7	1423.3	1592.3	1623.4
200.2	67.5°	266.9	404.7	627.1	765.0	956.3	1085.3	1205.4	1338.8	1378.8
129.0	70°	160.1	306.9	467.0	613.8	787.3	902.9	1018.5	1134.2	1156.4
62.3	72.5°	102.3	213.5	338.0	498.2	631.6	756.1	858.4	942.9	876.2
40.0	75°	57.8	146.8	266.9	391.4	511.5	631.6	716.1	760.6	609.3
26.7	77.5°	35.6	106.7	217.9	315.8	395.9	507.0	560.4	587.1	435.9
17.8	80°	22.2	80.1	182.4	258.0	258.0	373.6	435.9	458.1	315.8
13.3	82.5°	17.8	57.8	142.3	195.7	173.5	280.2	342.5	346.9	222.4
8.9	85°	13.3	44.5	89.0	129.0	120.1	195.7	200.2	222.4	146.8
8.9	87.5°	8.9	26.7	53.4	75.6	66.7	93.4	106.7	120.1	80.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
41369.0
40154.8
39483.1
38500.2
36658.8
34679.5
32384.4
30089.4
27563.0
25125.6
22670.4
20464.3
18267.1
16123.3
14135.1
12227.0
10327.8
8433.0
6774.0
5550.9
4572.3
3780.6
3144.6
2646.4
2237.2
1899.2
1614.6
1374.4
1138.6
813.9
578.2
409.2
293.6
204.6
133.4
71.2
0.0

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