

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: P638034

Luminaire Tested: **IFLD-L-SA7B-830-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638034
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-830-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23860.7 lumens
Efficiency: N/A
Efficacy: 84.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

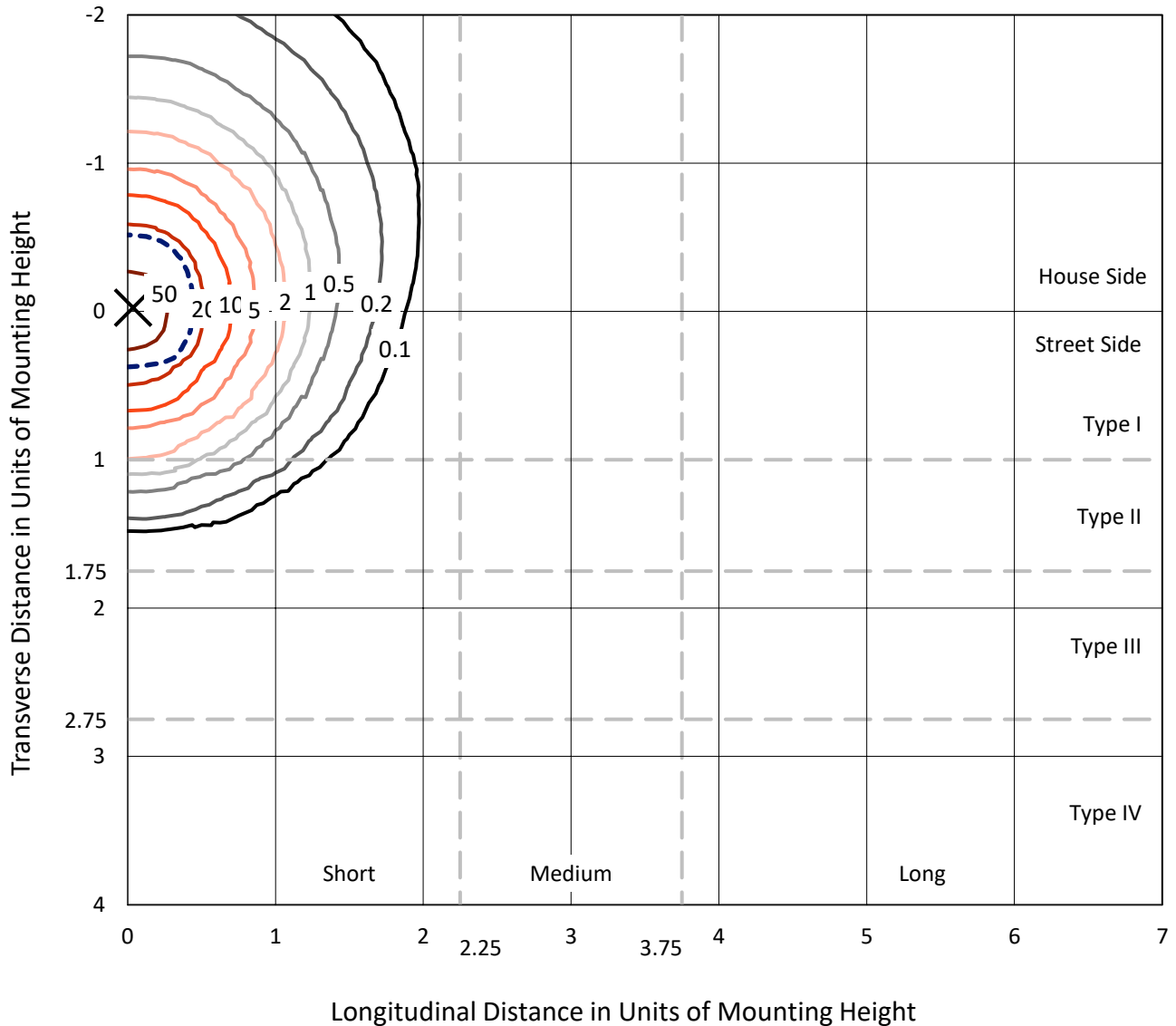
Input Watts (W): 281
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P638034
 CATALOG NUMBER: IFLD-L-SA7B-830-U-66-VI

Iso-Footcandle Lines of Horizontal Illumination

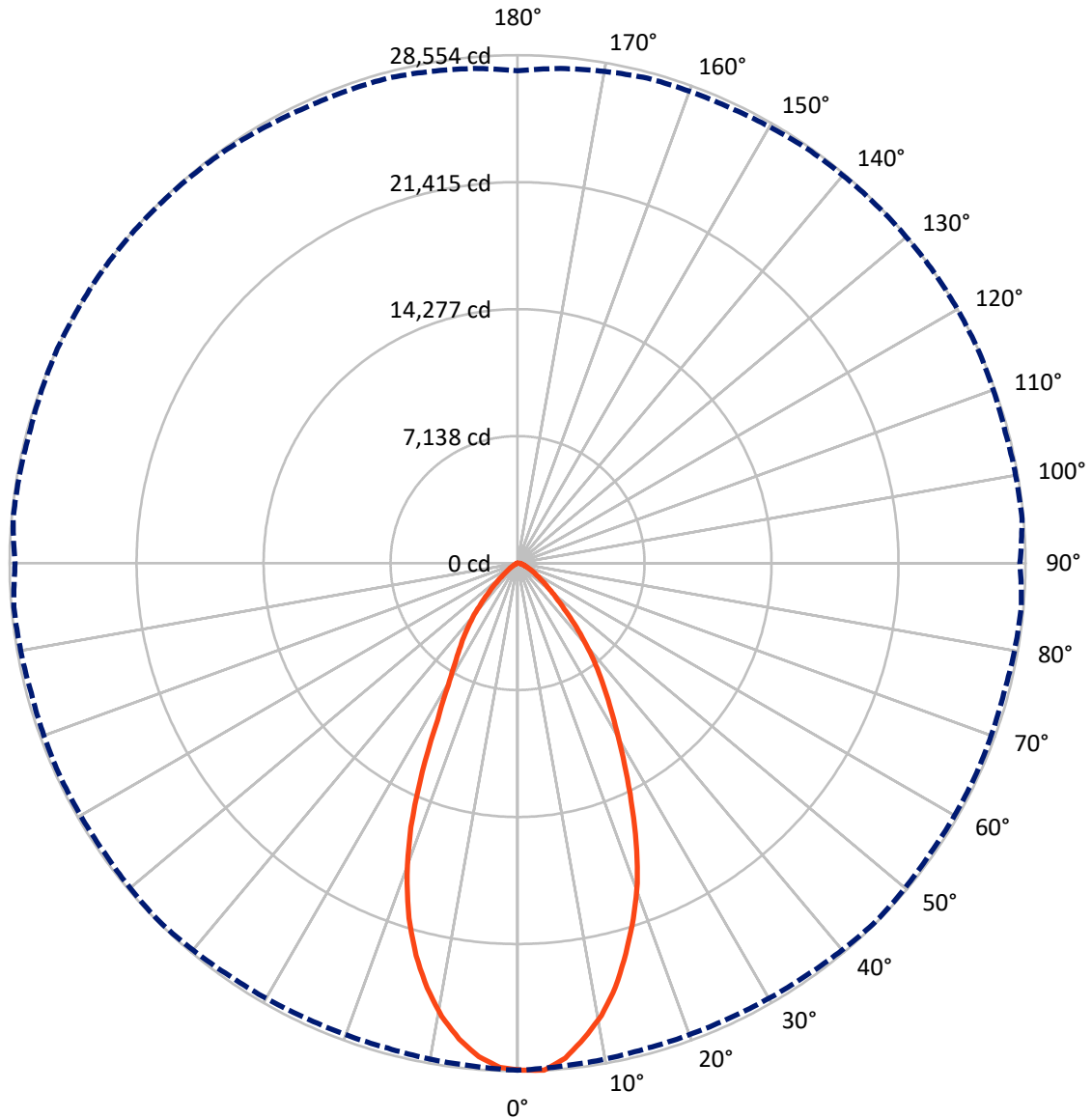
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 71.3 fc
 Type I - Short - N/A

REPORT NUMBER: P638034
CATALOG NUMBER: IFLD-L-SA7B-830-U-66-VI

Luminous Intensity Polar Plot



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

REPORT NUMBER: P638034

CATALOG NUMBER: IFLD-L-SA7B-830-U-66-VI

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13539.5	0.0	13539.5
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	10321.2	0.0	10321.2
	% Fixture	43.3	0.0	43.3
Total	Lumens	23860.7	0.0	23860.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2588.6	10.8
10°-20°	6170.7	25.9
20°-30°	6284.7	26.3
30°-40°	4686.5	19.6
40°-50°	2448.3	10.3
50°-60°	1029.8	4.3
60°-70°	420.6	1.8
70°-80°	177.0	0.7
80°-90°	54.5	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°	23860.7	100.0
0°-180°	23860.7	100.0



REPORT NUMBER: P638034

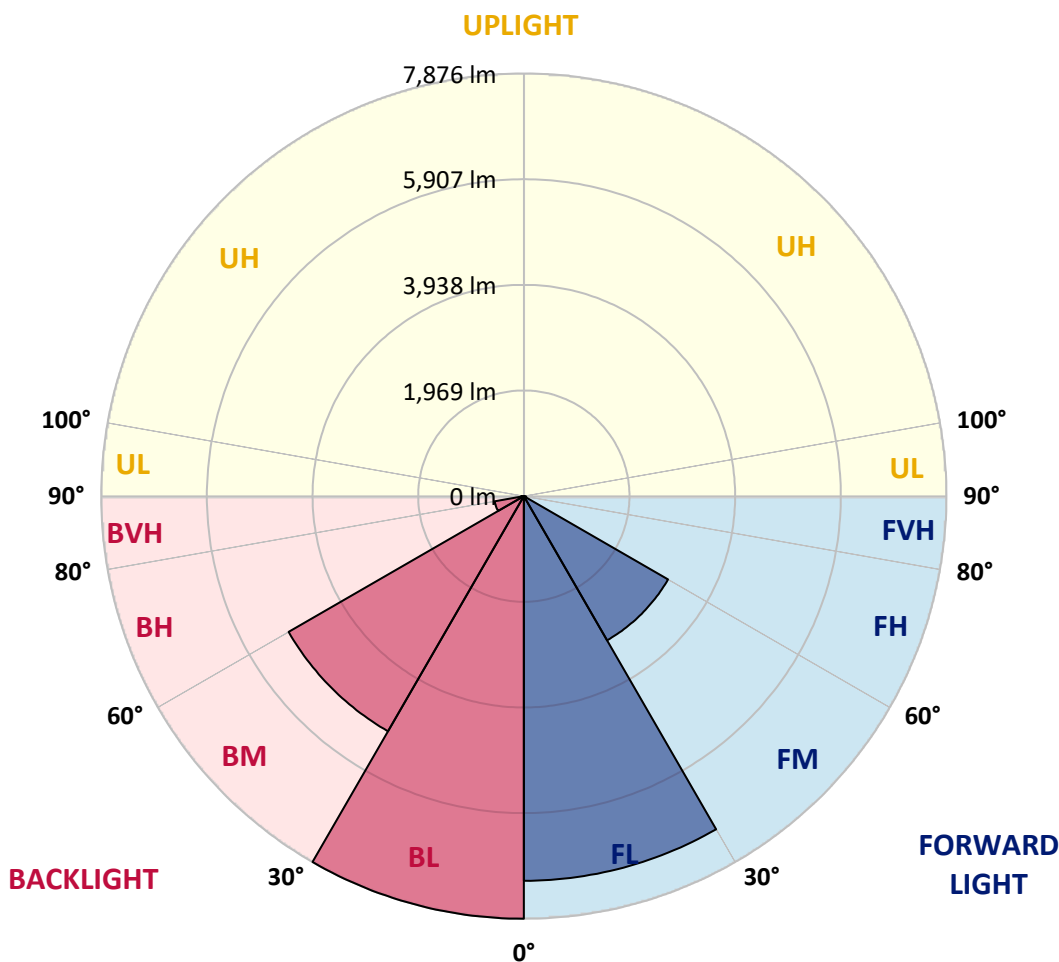
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7168.0	30.0			
FM (30°-60°)	3103.2	13.0			
FH (60°-80°)	44.9	0.2			G0/660
FVH (80°-90°)	5.1	0.0			G0/10
BL (0°-30°)	7875.9	33.0	B5		
BM (30°-60°)	5061.4	21.2	B4/8500		
BH (60°-80°)	552.7	2.3	B2/1000		G2/1000
BVH (80°-90°)	49.5	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-G2

Type I Short





REPORT NUMBER: P638034
 CATALOG NUMBER: IFLD-L-SA7B-830-U-66-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	28507.7	28507.7	28507.7	28507.7	28507.7	28507.7	28507.7	28507.7	28507.7	28507.7
2.5°	28510.8	28394.3	28228.8	28213.5	28299.3	28486.3	28366.7	28372.9	28299.3	28425.0
5°	28063.3	27953.0	27839.6	27689.4	27815.0	27894.7	27833.4	27766.0	27671.0	27793.6
7.5°	27217.4	27156.1	26987.5	26920.1	26996.7	27085.6	26953.8	26935.4	26803.6	26963.0
10°	25923.9	25899.4	25733.9	25694.0	25761.5	25896.3	25838.1	25825.8	25743.1	25727.8
12.5°	24581.4	24486.4	24281.1	24268.8	24370.0	24572.3	24415.9	24265.8	24311.7	24351.6
15°	21124.1	21023.0	21531.8	22331.7	22751.6	22736.3	22782.3	22601.4	22546.3	22564.7
17.5°	16793.2	16621.6	16805.5	18043.8	20039.1	21197.7	20878.9	20489.6	20281.2	20143.3
20°	14494.5	14503.7	14470.0	14788.7	16033.1	18675.2	18598.5	17847.6	17574.8	17461.4
22.5°	13096.8	13044.7	12971.2	13072.3	13406.4	14957.3	15996.3	15306.7	15211.7	15086.0
25°	11726.8	11726.8	11637.9	11739.0	11834.0	11855.5	12897.6	13179.6	12995.7	12995.7
27.5°	10540.6	10479.3	10439.5	10485.4	10359.8	9756.0	9887.7	11331.4	11205.7	11129.1
30°	9363.6	9345.2	9277.8	9339.1	8873.2	8192.8	7916.9	9562.9	9694.7	9667.1
32.5°	7730.0	7803.5	8103.9	8198.9	7402.0	6853.4	6589.8	7938.4	8465.6	8444.1
35°	5253.4	5314.7	5658.0	6792.1	6136.2	5743.8	5667.2	6313.9	7181.3	7264.1
37.5°	4183.8	4174.6	4272.6	4474.9	4931.6	4836.6	4815.1	4983.7	5857.3	5894.0
40°	3448.1	3435.9	3432.8	3267.3	3153.9	4021.3	3963.1	3861.9	4619.0	4692.5
42.5°	2780.0	2792.2	2801.4	2439.8	2274.2	3101.8	3068.1	2963.9	3622.9	3708.7
45°	2182.3	2179.2	2197.6	1817.6	1771.6	1983.1	2292.6	2209.9	2734.0	2825.9
47.5°	1131.0	1170.8	1419.1	1406.8	1428.3	1406.8	1734.8	1713.3	2056.6	2203.7
50°	760.1	772.4	793.8	796.9	1124.9	1036.0	1177.0	1333.3	1440.6	1667.4
52.5°	588.5	597.7	542.5	508.8	689.6	766.3	772.4	922.6	1005.3	1235.2
55°	328.0	367.8	395.4	398.5	380.1	567.0	564.0	683.5	747.9	901.1
57.5°	42.9	52.1	79.7	257.5	254.4	315.7	395.4	496.5	533.3	659.0
60°	3.1	6.1	9.2	39.8	168.6	183.9	269.7	309.6	370.9	462.8
62.5°	0.0	0.0	3.1	9.2	33.7	107.3	141.0	162.4	217.6	303.4
65°	0.0	0.0	3.1	6.1	12.3	39.8	55.2	88.9	128.7	187.0
67.5°	0.0	0.0	3.1	6.1	9.2	15.3	24.5	39.8	67.4	113.4
70°	0.0	0.0	3.1	6.1	9.2	12.3	18.4	24.5	36.8	61.3
72.5°	0.0	0.0	3.1	3.1	6.1	15.3	15.3	18.4	24.5	33.7
75°	0.0	0.0	3.1	6.1	9.2	15.3	15.3	15.3	18.4	21.5
77.5°	0.0	0.0	3.1	6.1	9.2	15.3	12.3	15.3	15.3	15.3
80°	0.0	0.0	3.1	6.1	9.2	15.3	18.4	15.3	12.3	12.3
82.5°	0.0	0.0	3.1	9.2	9.2	21.5	21.5	21.5	9.2	9.2
85°	0.0	0.0	6.1	9.2	15.3	24.5	24.5	18.4	9.2	6.1
87.5°	0.0	0.0	3.1	6.1	6.1	12.3	18.4	15.3	6.1	3.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638034

CATALOG NUMBER: IFLD-L-SA7B-830-U-66-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
28507.7	0°	28507.7	28507.7	28507.7	28507.7	28507.7	28507.7	28507.7	28507.7	28507.7
28241.1	2.5°	28467.9	28391.3	28535.3	28553.7	28492.4	28415.8	28238.0	28222.7	27913.1
27615.8	5°	27928.4	27802.8	27894.7	27956.0	27934.6	27851.8	27778.3	27710.8	27431.9
26601.3	7.5°	26923.1	26877.1	26920.1	26966.0	27054.9	26966.0	26935.4	26864.9	26589.0
25602.1	10°	25807.5	25721.6	25884.1	25862.6	25838.1	25813.6	25684.9	25697.1	25372.2
24241.2	12.5°	24437.4	24293.3	24449.7	24468.0	24449.7	24363.8	24219.8	24281.1	23983.8
22402.2	15°	22595.3	22580.0	22693.4	22767.0	22819.1	22727.1	22678.1	22708.7	22531.0
20036.0	17.5°	20333.3	20532.6	20903.4	21029.1	21032.2	21127.2	21099.6	21062.8	20931.0
17415.4	20°	17672.9	18056.0	18626.1	19211.5	19380.1	19300.4	19263.6	19331.1	19134.9
14954.2	22.5°	15217.8	15545.8	16207.8	17063.0	17556.4	17605.5	17596.3	17538.0	17461.4
12983.4	25°	13133.6	13424.8	14059.2	14840.8	15787.9	15928.9	15935.0	15916.6	15849.2
11196.5	27.5°	11374.3	11726.8	12076.2	12775.0	13783.4	14365.7	14292.2	14270.7	14246.2
9688.5	30°	9780.5	10224.9	10552.9	10988.1	11892.3	12680.0	12756.6	12719.8	12661.6
8441.1	32.5°	8517.7	8781.3	9198.1	9492.4	10142.1	11034.1	11328.3	11300.7	11248.6
7316.2	35°	7420.4	7524.6	7852.6	8180.5	8612.7	9477.0	9912.3	9851.0	9841.8
5961.5	37.5°	6111.6	6461.1	6641.9	6972.9	7276.4	7947.6	8548.3	8520.8	8523.8
4793.7	40°	4934.7	5137.0	5495.6	5774.5	6053.4	6543.8	7212.0	7230.4	7224.2
3711.7	42.5°	3788.4	3984.5	4361.5	4665.0	4913.2	5216.7	5854.2	5875.6	5903.2
2890.3	45°	2957.7	3083.4	3359.3	3675.0	3938.5	4122.4	4606.7	4744.6	4747.7
2240.5	47.5°	2295.7	2439.8	2635.9	2939.4	3196.8	3328.6	3681.1	3868.1	3858.9
1719.5	50°	1802.2	1934.0	2093.4	2332.5	2611.4	2715.6	2976.1	3160.0	3150.8
1296.5	52.5°	1379.3	1547.8	1688.8	1872.7	2145.5	2234.4	2421.4	2632.9	2602.2
950.2	55°	1045.2	1216.8	1348.6	1501.9	1750.1	1863.5	1992.3	2160.8	2167.0
735.6	57.5°	787.7	965.5	1085.0	1241.3	1428.3	1554.0	1652.0	1832.9	1829.8
502.7	60°	564.0	717.2	861.3	1023.7	1167.8	1311.8	1379.3	1550.9	1557.0
355.5	62.5°	407.6	551.7	689.6	830.6	959.4	1100.3	1161.6	1296.5	1314.9
232.9	65°	285.0	386.2	545.6	652.8	796.9	901.1	980.8	1097.3	1118.7
137.9	67.5°	183.9	278.9	432.2	527.2	659.0	747.9	830.6	922.6	950.2
88.9	70°	110.3	211.5	321.8	423.0	542.5	622.2	701.9	781.6	796.9
42.9	72.5°	70.5	147.1	232.9	343.3	435.2	521.1	591.5	649.8	603.8
27.6	75°	39.8	101.1	183.9	269.7	352.5	435.2	493.5	524.1	419.9
18.4	77.5°	24.5	73.6	150.2	217.6	272.8	349.4	386.2	404.6	300.4
12.3	80°	15.3	55.2	125.7	177.8	177.8	257.5	300.4	315.7	217.6
9.2	82.5°	12.3	39.8	98.1	134.9	119.5	193.1	236.0	239.1	153.3
6.1	85°	9.2	30.7	61.3	88.9	82.8	134.9	137.9	153.3	101.1
6.1	87.5°	6.1	18.4	36.8	52.1	46.0	64.4	73.6	82.8	55.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
28507.7
27671.0
27208.2
26530.8
25261.9
23897.9
22316.4
20734.8
18993.9
17314.3
15622.4
14102.1
12588.0
11110.7
9740.6
8425.7
7117.0
5811.3
4668.0
3825.1
3150.8
2605.3
2167.0
1823.7
1541.7
1308.8
1112.6
947.1
784.6
560.9
398.5
282.0
202.3
141.0
92.0
49.0
0.0

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