

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: P638185

Luminaire Tested: **IFLD-L-SA8C-740-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638185
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-740-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38970 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

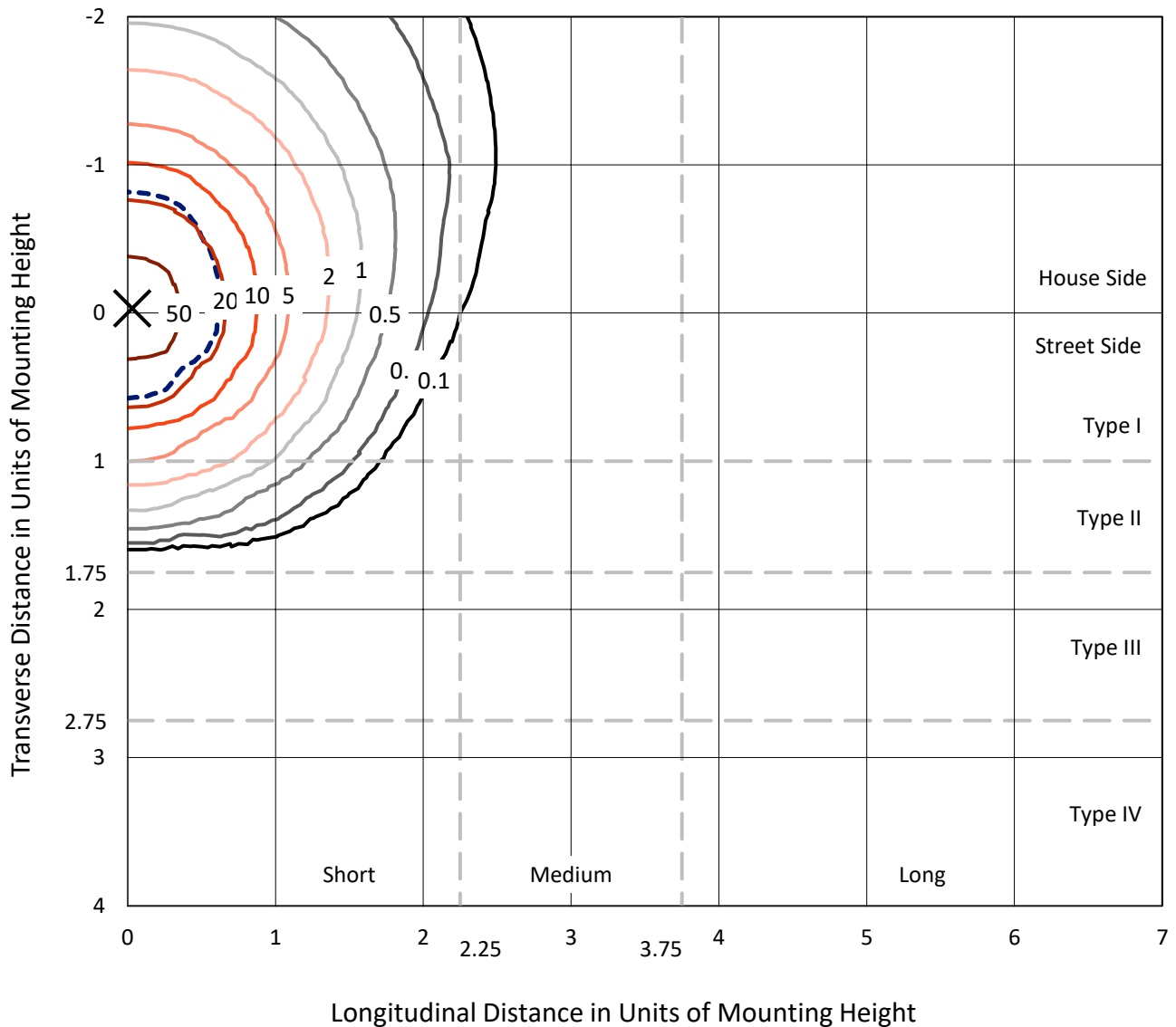
Input Watts (W): 420.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

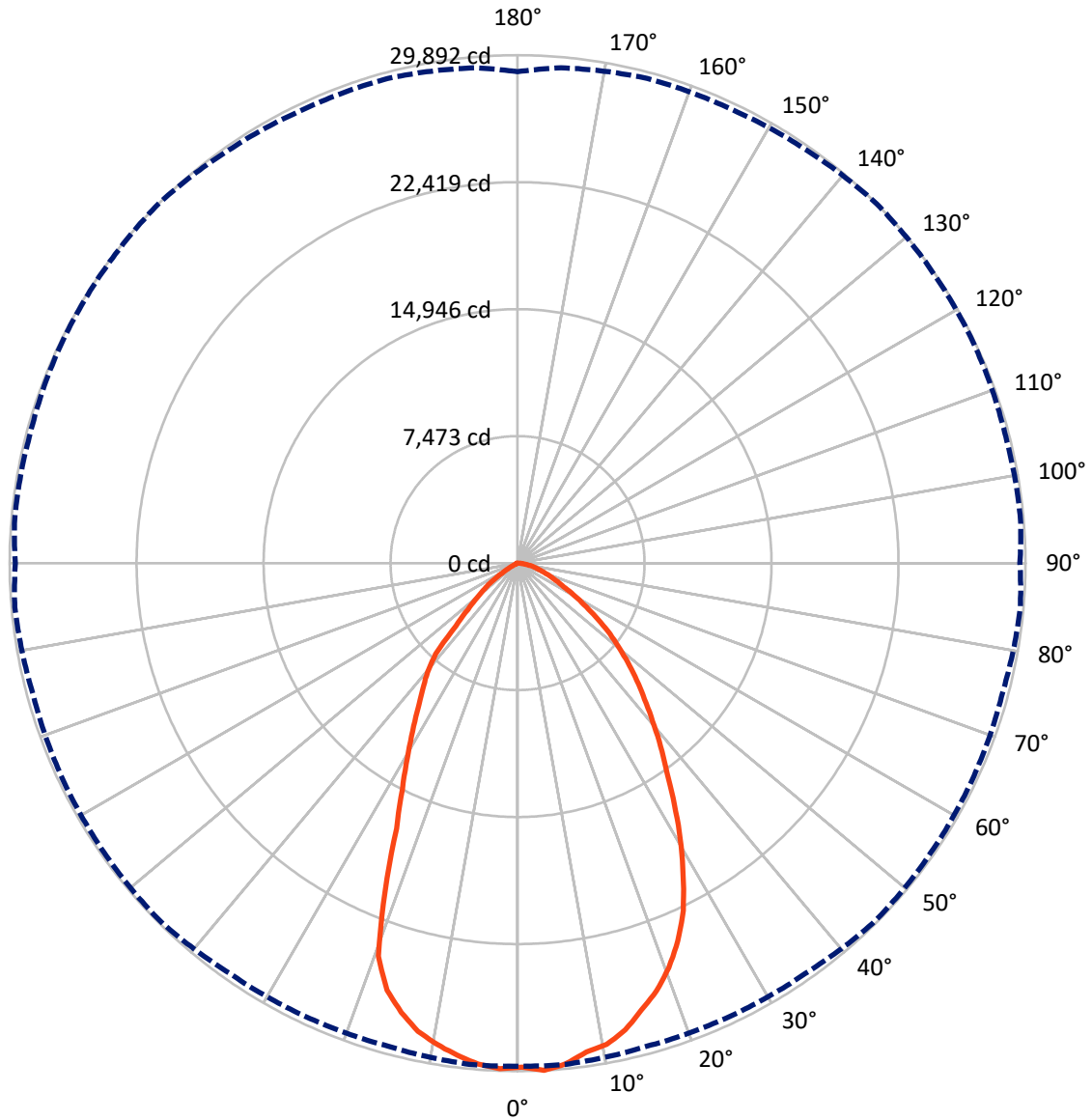
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 74.1 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	23080.0	0.0	23080.0
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	15890.0	0.0	15890.0
	% Fixture	40.8	0.0	40.8
Total	Lumens	38970.0	0.0	38970.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2781.3	7.1
10°-20°	7458.1	19.1
20°-30°	9095.6	23.3
30°-40°	8304.2	21.3
40°-50°	6001.2	15.4
50°-60°	3276.7	8.4
60°-70°	1354.8	3.5
70°-80°	548.7	1.4
80°-90°	149.3	0.4
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°	38970.0	100.0
0°-180°	38970.0	100.0



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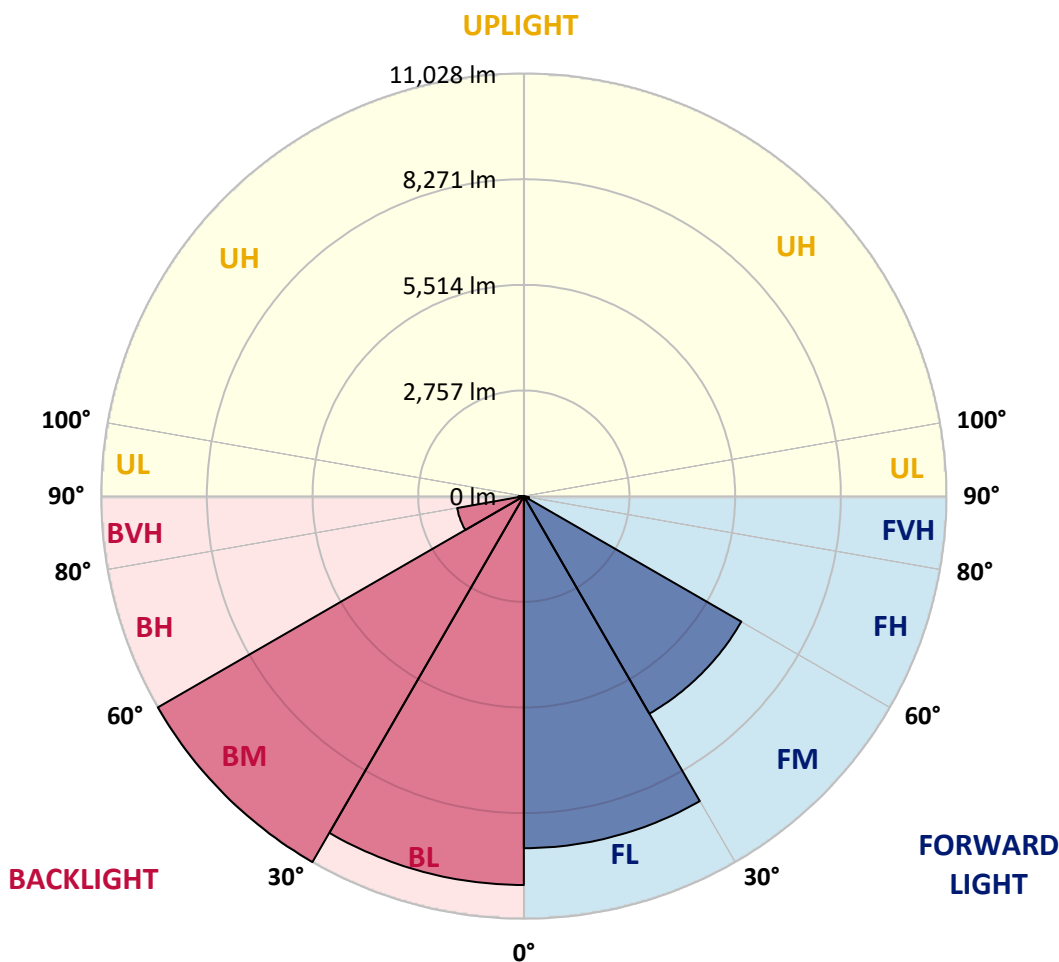
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	9186.7	23.6			
FM (30°-60°)	6554.0	16.8			
FH (60°-80°)	137.3	0.4			G0/660
FVH (80°-90°)	12.0	0.0			G1/100
BL (0°-30°)	10148.3	26.0	B5		
BM (30°-60°)	11028.2	28.3	B5		
BH (60°-80°)	1766.2	4.5	B3/2500		G3/2500
BVH (80°-90°)	137.3	0.4			G2/225
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°	29656.0	29656.0	29656.0	29656.0	29656.0	29656.0	29656.0	29656.0	29656.0	29656.0
2.5°	29601.1	29639.5	29431.0	29453.0	29491.4	29771.2	29699.9	29634.0	29540.8	29699.9
5°	29562.7	29584.7	29365.1	29288.3	29321.2	29573.7	29343.2	29343.2	29321.2	29293.8
7.5°	29266.4	29277.3	29107.2	28970.0	29057.8	29173.1	29003.0	29085.3	28964.5	29057.8
10°	28821.9	28750.5	28547.5	28509.1	28607.8	28717.6	28602.3	28679.2	28569.4	28640.8
12.5°	28168.8	28059.1	27894.4	27845.0	28015.2	28163.3	28070.0	28026.1	27883.4	28059.1
15°	25649.9	25567.6	25940.8	26593.8	27181.0	27307.2	27208.4	27252.3	26956.0	27005.4
17.5°	21111.5	20957.9	21358.5	22906.0	25112.1	26275.5	26187.7	25902.4	25463.3	25562.1
20°	19185.3	19141.4	19097.5	19465.2	21007.2	24535.9	24656.6	23932.2	23306.6	23169.4
22.5°	18098.7	18082.3	18038.4	18120.7	18526.8	20793.2	22176.1	21506.6	21089.6	21051.1
25°	17105.4	17078.0	16946.3	17050.6	17050.6	17182.3	18954.8	19360.9	18993.2	18949.3
27.5°	16095.7	16046.3	16024.3	16073.7	15821.3	14932.3	15382.3	17363.4	17171.3	17182.3
30°	15003.6	14987.1	14926.8	15031.0	14251.8	13148.7	12863.4	15552.4	15590.8	15579.8
32.5°	13379.2	13450.6	13725.0	13840.2	12556.1	11645.1	11167.6	13456.1	14240.8	14224.3
35°	9718.9	9718.9	10613.4	12276.2	11003.0	10317.0	10059.1	11409.1	12907.3	12962.2
37.5°	7990.2	8017.7	8193.3	8950.6	9493.9	9252.4	9175.6	9603.6	11195.1	11282.9
40°	7189.0	7189.0	7189.0	6876.2	6859.7	8335.9	8292.0	8154.9	9669.5	9861.6
42.5°	6459.1	6475.6	6486.6	5696.3	5257.3	7205.5	7106.7	6898.1	8303.0	8528.0
45°	5707.3	5734.7	5767.7	4763.4	4571.3	5186.0	6014.6	5784.1	6953.0	7243.9
47.5°	3484.7	3528.6	4275.0	4039.0	4061.0	4000.6	4906.1	4867.7	5701.8	6113.4
50°	2354.3	2370.7	2442.1	2562.8	3484.7	3144.5	3473.8	4028.0	4329.9	4955.5
52.5°	1975.6	2003.0	1827.4	1662.8	2288.4	2458.5	2425.6	2990.8	3111.6	3885.4
55°	1388.4	1476.2	1393.9	1377.4	1300.6	1909.7	1838.4	2299.4	2376.2	2952.4
57.5°	142.7	164.6	285.4	1026.2	850.6	1081.1	1311.6	1684.8	1761.6	2178.7
60°	11.0	11.0	27.4	142.7	620.1	647.6	905.5	1037.2	1185.4	1520.1
62.5°	0.0	5.5	11.0	22.0	98.8	345.7	455.5	543.3	713.4	982.3
65°	0.0	0.0	5.5	16.5	22.0	131.7	175.6	285.4	389.6	609.1
67.5°	0.0	0.0	5.5	11.0	16.5	32.9	60.4	104.3	208.5	345.7
70°	0.0	0.0	5.5	11.0	16.5	27.4	43.9	65.9	93.3	186.6
72.5°	0.0	0.0	5.5	5.5	11.0	27.4	32.9	43.9	65.9	93.3
75°	0.0	0.0	5.5	5.5	16.5	32.9	27.4	32.9	43.9	60.4
77.5°	0.0	0.0	5.5	11.0	16.5	32.9	27.4	32.9	32.9	38.4
80°	0.0	0.0	5.5	11.0	22.0	38.4	32.9	32.9	27.4	27.4
82.5°	0.0	0.0	5.5	16.5	22.0	49.4	49.4	43.9	22.0	16.5
85°	0.0	0.0	11.0	22.0	32.9	54.9	54.9	43.9	16.5	11.0
87.5°	0.0	0.0	11.0	16.5	27.4	38.4	54.9	43.9	16.5	5.5
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°
29656.0	0°	29656.0	29656.0	29656.0	29656.0	29656.0	29656.0	29656.0	29656.0	29656.0
29562.7	2.5°	29710.9	29677.9	29787.7	29831.6	29892.0	29661.5	29518.8	29524.3	29260.9
29228.0	5°	29403.6	29409.0	29551.7	29540.8	29601.1	29474.9	29420.0	29326.7	29096.2
28805.4	7.5°	29013.9	28964.5	29101.7	29206.0	29052.3	29140.1	29013.9	29057.8	28920.6
28432.2	10°	28712.1	28596.9	28723.1	28794.4	28799.9	28712.1	28591.4	28476.1	28426.7
27850.5	12.5°	28042.6	27894.4	28108.4	28207.2	28190.8	28020.6	27883.4	27910.9	27751.7
26829.8	15°	27120.6	27126.1	27279.8	27373.1	27285.3	27246.9	27257.8	27192.0	27054.8
25419.4	17.5°	25710.3	25792.6	26198.7	26423.7	26473.1	26396.3	26357.8	26281.0	26143.8
23169.4	20°	23361.5	23855.4	24579.8	25276.7	25413.9	25392.0	25254.8	25221.9	25145.0
20941.4	22.5°	21298.1	21665.8	22505.4	23592.0	24151.7	24206.6	24042.0	23992.6	23910.3
18949.3	25°	19163.4	19558.5	20315.8	21495.7	22653.6	22889.6	22862.1	22713.9	22626.1
17182.3	27.5°	17363.4	17758.5	18444.5	19509.1	20749.3	21506.6	21578.0	21342.0	21336.5
15607.3	30°	15739.0	16282.3	16803.6	17670.7	18872.5	20008.5	20129.2	19964.6	19981.0
14164.0	32.5°	14465.8	14915.8	15360.3	15942.0	16940.8	18263.4	18735.3	18581.6	18521.3
12962.2	35°	13165.2	13472.5	13928.0	14460.3	15140.8	16452.4	17270.1	17154.8	17094.5
11337.8	37.5°	11683.5	12210.3	12539.6	13137.8	13670.1	14712.8	15865.2	15848.7	15722.5
9954.8	40°	10163.4	10717.6	11217.0	11820.7	12232.3	13060.9	14339.6	14334.1	14350.6
8522.5	42.5°	8785.9	9296.3	9900.0	10558.5	10953.6	11557.3	12929.2	13006.1	13099.3
7342.7	45°	7540.2	8001.2	8560.9	9362.2	9839.6	10185.3	11403.6	11754.8	11749.4
6289.0	47.5°	6420.7	6854.2	7326.2	8105.5	8714.6	9027.4	10037.2	10536.6	10503.6
5158.5	50°	5389.0	5773.2	6267.1	6832.3	7650.0	7924.4	8676.2	9334.7	9285.3
4110.4	52.5°	4335.4	4867.7	5284.7	5800.6	6662.2	6931.1	7512.8	8154.9	8116.4
3084.1	55°	3380.5	3896.3	4401.2	4845.7	5570.1	5970.7	6387.8	7046.3	7035.3
2414.6	57.5°	2557.3	3122.6	3600.0	4022.5	4598.8	5092.7	5427.4	6025.6	6102.4
1651.8	60°	1893.3	2326.8	2842.7	3314.6	3770.1	4280.5	4505.5	5092.7	5125.6
1130.5	62.5°	1289.6	1767.1	2271.9	2700.0	3040.2	3567.1	3770.1	4253.0	4313.4
724.4	65°	894.5	1201.8	1778.0	2085.4	2502.4	2952.4	3155.5	3539.6	3660.4
417.1	67.5°	592.7	856.1	1388.4	1668.3	2079.9	2387.2	2645.1	2957.9	3089.6
263.4	70°	323.8	631.1	993.3	1317.1	1673.8	1970.1	2222.6	2475.0	2590.2
120.7	72.5°	219.5	422.6	691.5	1042.7	1350.0	1640.8	1865.8	2052.4	2057.9
71.3	75°	109.8	285.4	526.8	806.7	1053.7	1339.0	1542.1	1651.8	1520.1
43.9	77.5°	65.9	208.5	428.0	647.6	856.1	1081.1	1196.3	1256.7	1042.7
32.9	80°	38.4	148.2	334.8	515.9	592.7	795.7	905.5	921.9	696.9
22.0	82.5°	27.4	109.8	263.4	378.7	362.2	559.8	680.5	658.5	444.5
16.5	85°	16.5	76.8	164.6	236.0	219.5	367.7	395.1	406.1	257.9
11.0	87.5°	11.0	43.9	87.8	126.2	104.3	159.1	159.1	192.1	126.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
29656.0
28920.6
29041.4
28690.1
28207.2
27614.5
26917.6
26083.4
24969.4
23888.3
22532.9
21325.5
19898.7
18526.8
17012.1
15826.8
14350.6
13050.0
11760.3
10514.6
9329.2
8198.8
7062.8
6069.5
5175.0
4324.4
3632.9
3073.2
2546.3
2008.5
1421.3
1004.3
653.0
411.6
236.0
109.8
0.0

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