

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: P638095

Luminaire Tested: **IFLD-L-SA7E-727-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638095
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7E-727-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (112) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36313.4 lumens
Efficiency: N/A
Efficacy: 68.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

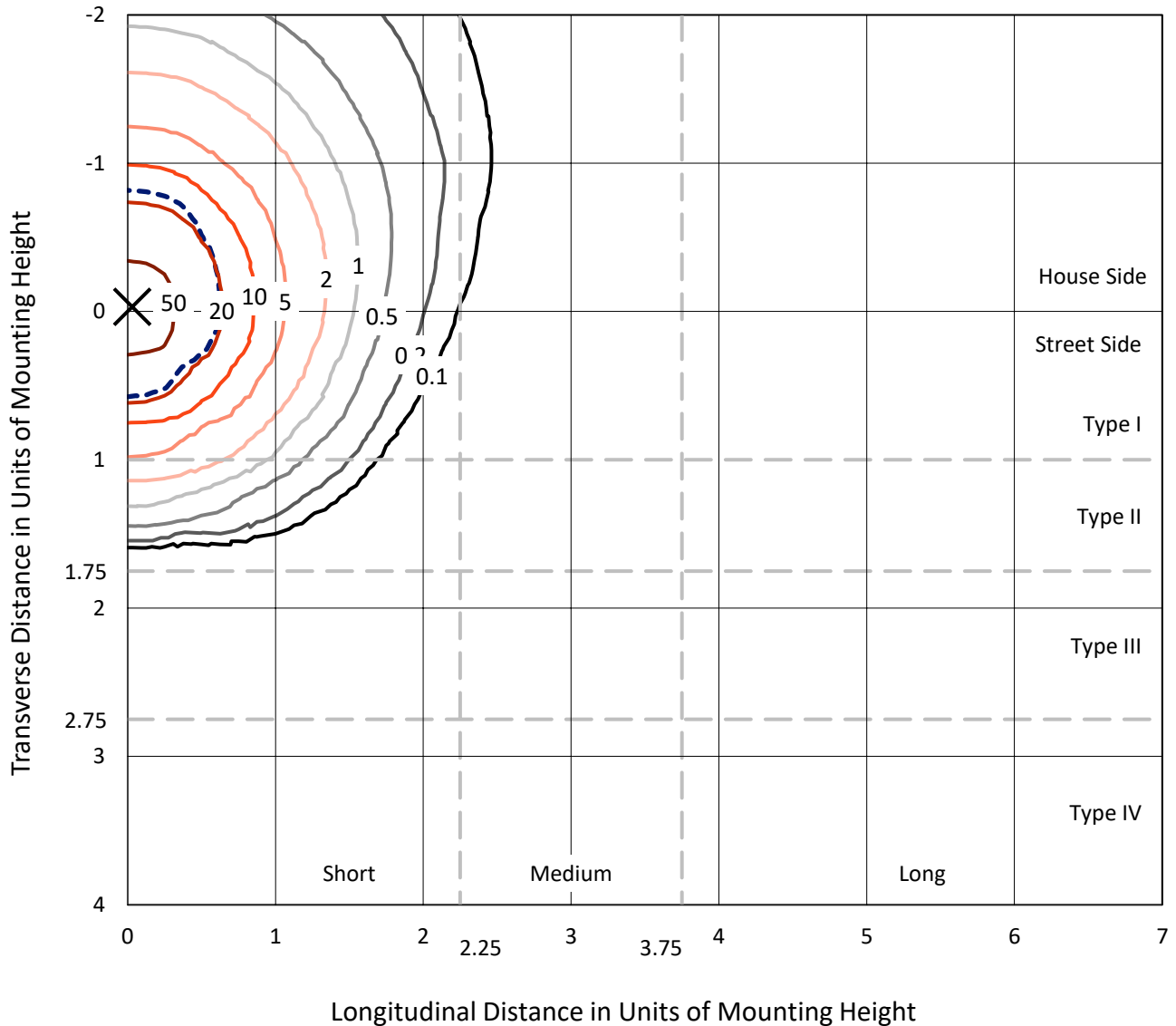
Input Watts (W): 532.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

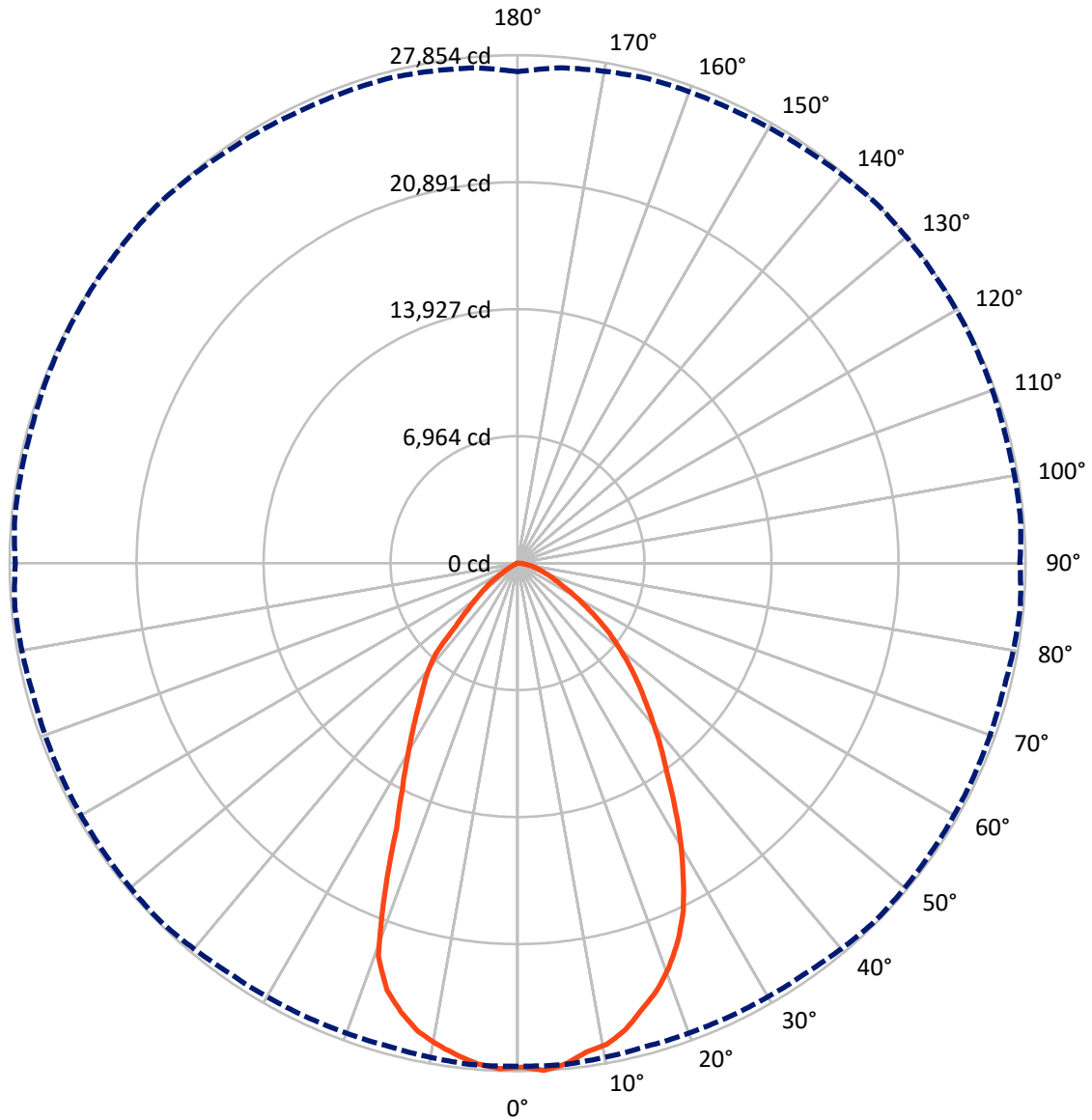
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 69.1 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	21506.7	0.0	21506.7
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	14806.8	0.0	14806.8
	% Fixture	40.8	0.0	40.8
Total	Lumens	36313.4	0.0	36313.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2591.7	7.1
10°-20°	6949.7	19.1
20°-30°	8475.6	23.3
30°-40°	7738.1	21.3
40°-50°	5592.2	15.4
50°-60°	3053.4	8.4
60°-70°	1262.5	3.5
70°-80°	511.3	1.4
80°-90°	139.1	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°	36313.4	100.0
0°-180°	36313.4	100.0



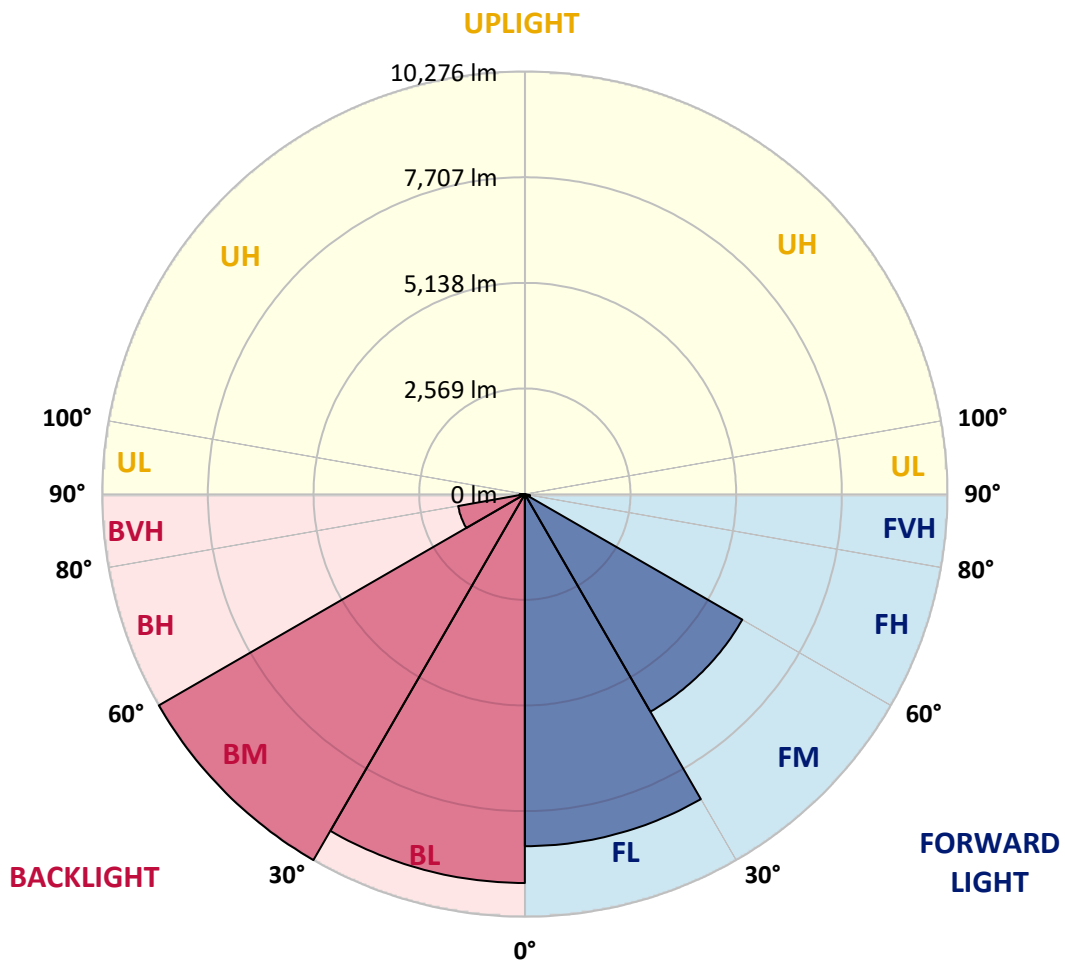
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8560.4	23.6			
FM (30°-60°)	6107.2	16.8			
FH (60°-80°)	128.0	0.4			G0/660
FVH (80°-90°)	11.1	0.0			G1/100
BL (0°-30°)	9456.5	26.0	B5		
BM (30°-60°)	10276.4	28.3	B5		
BH (60°-80°)	1645.8	4.5	B3/2500		G3/2500
BVH (80°-90°)	127.9	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°	27634.4	27634.4	27634.4	27634.4	27634.4	27634.4	27634.4	27634.4	27634.4	27634.4
2.5°	27583.3	27619.1	27424.8	27445.2	27481.0	27741.8	27675.3	27614.0	27527.0	27675.3
5°	27547.5	27567.9	27363.4	27291.8	27322.5	27557.7	27342.9	27342.9	27322.5	27296.9
7.5°	27271.4	27281.6	27123.1	26995.2	27077.0	27184.4	27025.9	27102.6	26990.1	27077.0
10°	26857.1	26790.7	26601.5	26565.7	26657.7	26760.0	26652.6	26724.2	26621.9	26688.4
12.5°	26248.6	26146.3	25992.9	25946.9	26105.4	26243.5	26156.6	26115.7	25982.7	26146.3
15°	23901.4	23824.7	24172.4	24781.0	25328.1	25445.8	25353.7	25394.6	25118.5	25164.5
17.5°	19672.4	19529.2	19902.5	21344.6	23400.3	24484.4	24402.6	24136.7	23727.6	23819.6
20°	17877.5	17836.6	17795.7	18138.3	19575.2	22863.3	22975.8	22300.8	21717.9	21590.0
22.5°	16865.0	16849.6	16808.7	16885.4	17263.8	19375.8	20664.5	20040.6	19651.9	19616.1
25°	15939.4	15913.8	15791.1	15888.3	15888.3	16011.0	17662.7	18041.1	17698.5	17657.6
27.5°	14998.5	14952.5	14932.0	14978.0	14742.8	13914.4	14333.7	16179.7	16000.8	16011.0
30°	13980.8	13965.5	13909.3	14006.4	13280.3	12252.4	11986.5	14492.2	14528.0	14517.8
32.5°	12467.2	12533.7	12789.4	12896.7	11700.1	10851.3	10406.4	12538.8	13270.0	13254.7
35°	9056.4	9056.4	9889.9	11439.3	10253.0	9613.8	9373.4	10631.4	12027.4	12078.6
37.5°	7445.5	7471.1	7634.8	8340.4	8846.7	8621.7	8550.1	8949.0	10431.9	10513.8
40°	6698.9	6698.9	6698.9	6407.5	6392.1	7767.7	7726.8	7599.0	9010.3	9189.3
42.5°	6018.8	6034.2	6044.4	5308.0	4898.9	6714.3	6622.2	6427.9	7737.0	7946.7
45°	5318.2	5343.8	5374.5	4438.7	4259.7	4832.4	5604.6	5389.8	6479.1	6750.1
47.5°	3247.2	3288.1	3983.6	3763.7	3784.1	3727.9	4571.6	4535.8	5313.1	5696.7
50°	2193.8	2209.1	2275.6	2388.1	3247.2	2930.1	3237.0	3753.5	4034.7	4617.7
52.5°	1840.9	1866.5	1702.9	1549.5	2132.4	2290.9	2260.3	2787.0	2899.5	3620.5
55°	1293.8	1375.6	1298.9	1283.5	1211.9	1779.6	1713.1	2142.6	2214.2	2751.2
57.5°	133.0	153.4	265.9	956.3	792.6	1007.4	1222.2	1569.9	1641.5	2030.1
60°	10.2	10.2	25.6	133.0	577.8	603.4	843.8	966.5	1104.6	1416.5
62.5°	0.0	5.1	10.2	20.5	92.0	322.2	424.4	506.3	664.8	915.4
65°	0.0	0.0	5.1	15.3	20.5	122.7	163.6	265.9	363.1	567.6
67.5°	0.0	0.0	5.1	10.2	15.3	30.7	56.3	97.2	194.3	322.2
70°	0.0	0.0	5.1	10.2	15.3	25.6	40.9	61.4	86.9	173.9
72.5°	0.0	0.0	5.1	5.1	10.2	25.6	30.7	40.9	61.4	86.9
75°	0.0	0.0	5.1	5.1	15.3	30.7	25.6	30.7	40.9	56.3
77.5°	0.0	0.0	5.1	10.2	15.3	30.7	25.6	30.7	30.7	35.8
80°	0.0	0.0	5.1	10.2	20.5	35.8	30.7	30.7	25.6	25.6
82.5°	0.0	0.0	5.1	15.3	20.5	46.0	46.0	40.9	20.5	15.3
85°	0.0	0.0	10.2	20.5	30.7	51.1	51.1	40.9	15.3	10.2
87.5°	0.0	0.0	10.2	15.3	25.6	35.8	51.1	40.9	15.3	5.1
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°
27634.4	0°	27634.4	27634.4	27634.4	27634.4	27634.4	27634.4	27634.4	27634.4	27634.4
27547.5	2.5°	27685.6	27654.9	27757.2	27798.1	27854.3	27639.5	27506.6	27511.7	27266.2
27235.6	5°	27399.2	27404.3	27537.3	27527.0	27583.3	27465.7	27414.5	27327.6	27112.8
26841.8	7.5°	27036.1	26990.1	27117.9	27215.1	27071.9	27153.7	27036.1	27077.0	26949.2
26494.1	10°	26754.9	26647.5	26765.1	26831.6	26836.7	26754.9	26642.4	26535.0	26489.0
25952.0	12.5°	26131.0	25992.9	26192.4	26284.4	26269.1	26110.5	25982.7	26008.3	25860.0
25000.9	15°	25271.9	25277.0	25420.2	25507.1	25425.3	25389.5	25399.7	25338.4	25210.5
23686.6	17.5°	23957.7	24034.4	24412.8	24622.5	24668.5	24596.9	24561.1	24489.5	24361.7
21590.0	20°	21769.0	22229.2	22904.3	23553.7	23681.5	23661.1	23533.2	23502.6	23431.0
19513.9	22.5°	19846.3	20188.9	20971.3	21983.8	22505.4	22556.5	22403.1	22357.1	22280.4
17657.6	25°	17857.0	18225.2	18930.9	20030.4	21109.3	21329.2	21303.7	21165.6	21083.8
16011.0	27.5°	16179.7	16547.9	17187.1	18179.2	19334.9	20040.6	20107.1	19887.2	19882.1
14543.4	30°	14666.1	15172.3	15658.1	16466.1	17586.0	18644.5	18757.0	18603.6	18619.0
13198.5	32.5°	13479.7	13899.0	14313.2	14855.3	15786.0	17018.4	17458.2	17315.0	17258.7
12078.6	35°	12267.8	12554.1	12978.6	13474.6	14108.7	15330.9	16092.8	15985.4	15929.2
10564.9	37.5°	10887.1	11378.0	11684.8	12242.2	12738.2	13709.8	14783.7	14768.4	14650.7
9276.2	40°	9470.6	9987.1	10452.4	11014.9	11398.4	12170.6	13362.1	13357.0	13372.3
7941.6	42.5°	8187.0	8662.6	9225.1	9838.8	10206.9	10769.4	12047.9	12119.5	12206.4
6842.1	45°	7026.2	7455.8	7977.4	8724.0	9168.9	9491.0	10626.3	10953.5	10948.4
5860.3	47.5°	5983.0	6387.0	6826.8	7552.9	8120.6	8412.0	9353.0	9818.3	9787.6
4806.9	50°	5021.7	5379.6	5839.8	6366.6	7128.5	7384.2	8084.8	8698.4	8652.4
3830.2	52.5°	4039.8	4535.8	4924.5	5405.2	6208.0	6458.6	7000.7	7599.0	7563.2
2873.9	55°	3150.0	3630.7	4101.2	4515.4	5190.4	5563.7	5952.3	6566.0	6555.8
2250.0	57.5°	2383.0	2909.7	3354.6	3748.3	4285.3	4745.5	5057.4	5614.8	5686.4
1539.2	60°	1764.2	2168.2	2648.9	3088.7	3513.1	3988.7	4198.3	4745.5	4776.2
1053.4	62.5°	1201.7	1646.6	2117.1	2515.9	2833.0	3323.9	3513.1	3963.1	4019.4
675.0	65°	833.5	1119.9	1656.8	1943.2	2331.8	2751.2	2940.4	3298.3	3410.8
388.6	67.5°	552.3	797.7	1293.8	1554.6	1938.1	2224.5	2464.8	2756.3	2879.0
245.5	70°	301.7	588.1	925.6	1227.3	1559.7	1835.8	2071.0	2306.3	2413.7
112.5	72.5°	204.5	393.8	644.3	971.6	1258.0	1529.0	1738.7	1912.5	1917.6
66.5	75°	102.3	265.9	490.9	751.7	981.8	1247.7	1436.9	1539.2	1416.5
40.9	77.5°	61.4	194.3	398.9	603.4	797.7	1007.4	1114.8	1171.0	971.6
30.7	80°	35.8	138.1	311.9	480.7	552.3	741.5	843.8	859.1	649.4
20.5	82.5°	25.6	102.3	245.5	352.8	337.5	521.6	634.1	613.6	414.2
15.3	85°	15.3	71.6	153.4	219.9	204.5	342.6	368.2	378.4	240.3
10.2	87.5°	10.2	40.9	81.8	117.6	97.2	148.3	148.3	179.0	117.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
27634.4
26949.2
27061.7
26734.4
26284.4
25732.1
25082.7
24305.4
23267.3
22259.9
20996.8
19871.8
18542.3
17263.8
15852.5
14747.9
13372.3
12160.4
10958.7
9797.8
8693.3
7639.9
6581.3
5655.7
4822.2
4029.6
3385.3
2863.7
2372.8
1871.6
1324.4
935.8
608.5
383.5
219.9
102.3
0.0

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