

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: P637572

Luminaire Tested: **IFLD-L-SA7D-727-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637572
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-727-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (112) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38319.4 lumens
Efficiency: N/A
Efficacy: 90.7 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): 422.6
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



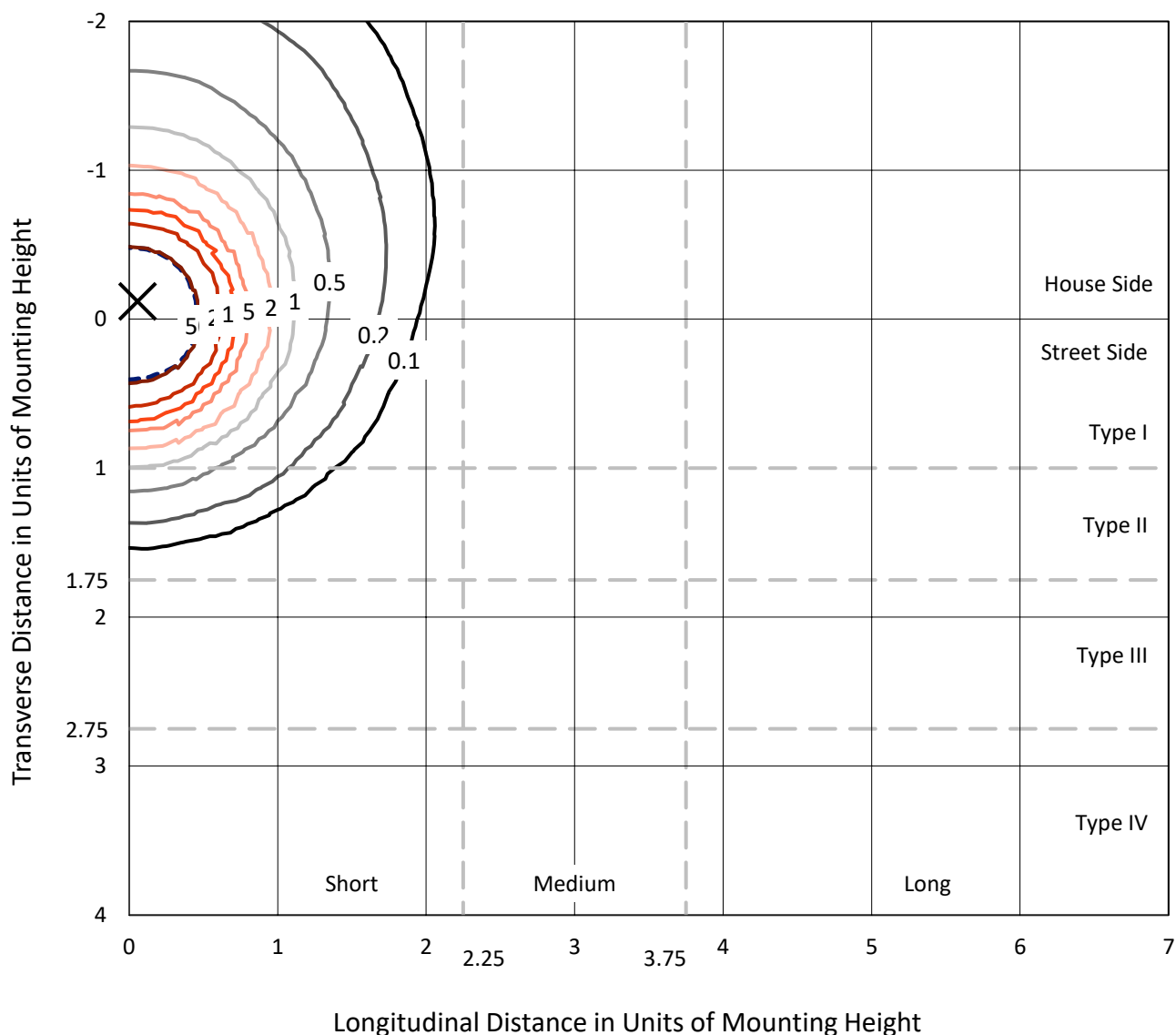
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



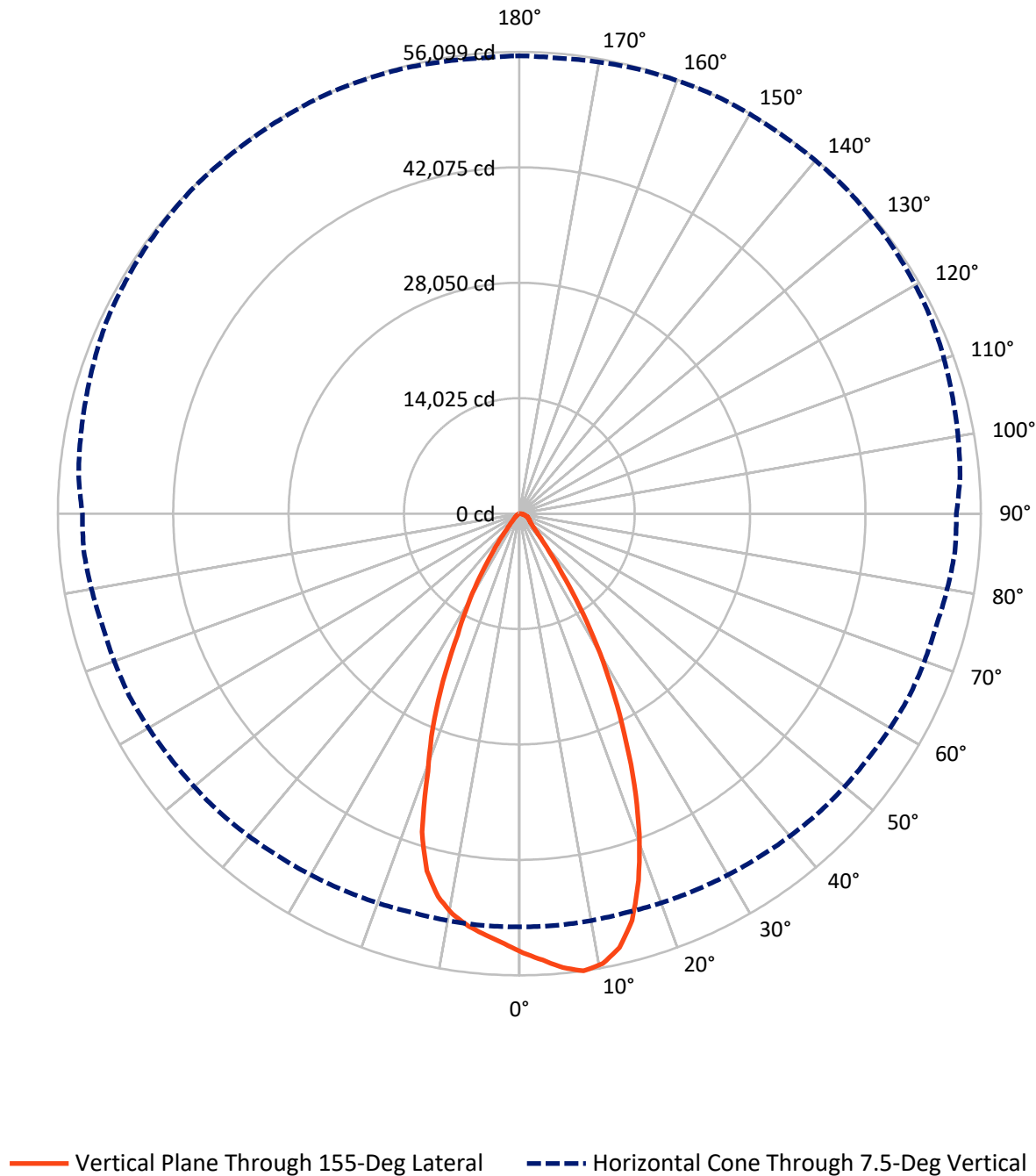
Based on 20 foot mounting height. Maximum calculated value = 135.7 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21153.7	0.0	21153.7
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	17165.7	0.0	17165.7
	% Fixture	44.8	0.0	44.8
Total	Lumens	38319.4	0.0	38319.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5090.3	13.3
10°-20°	13199.2	34.4
20°-30°	12094.2	31.6
30°-40°	4886.0	12.8
40°-50°	1433.3	3.7
50°-60°	801.4	2.1
60°-70°	486.8	1.3
70°-80°	247.3	0.6
80°-90°	80.9	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°	38319.4	100.0
0°-180°	38319.4	100.0

Coefficient of Utilization



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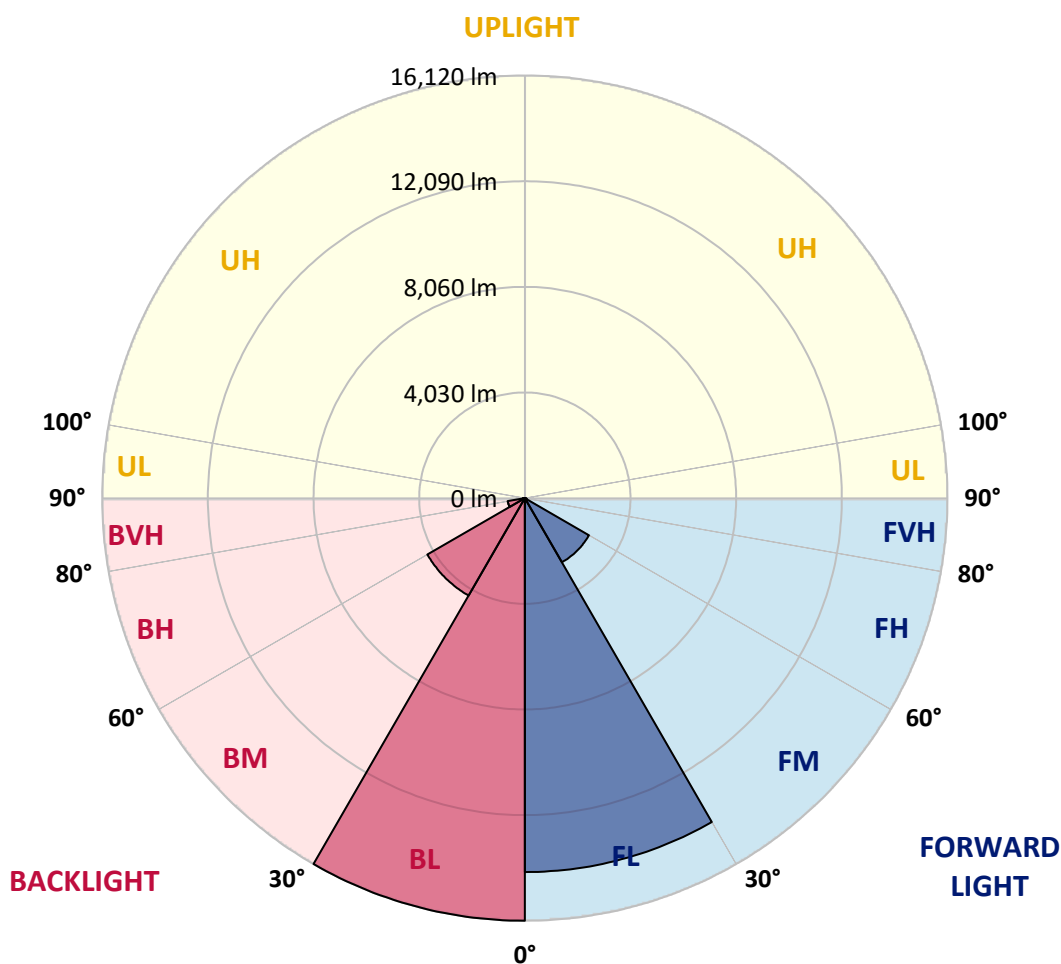
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	14263.5	37.2			
FM	(30°-60°)	2826.8	7.4			
FH	(60°-80°)	68.5	0.2			G0/660
FVH	(80°-90°)	7.0	0.0			G0/10
BL	(0°-30°)	16120.2	42.1	B5		
BM	(30°-60°)	4294.0	11.2	B3/5000		
BH	(60°-80°)	665.6	1.7	B2/1000		G2/1000
BVH	(80°-90°)	73.9	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	53381.9	53381.9	53381.9	53381.9	53381.9	53381.9	53381.9	53381.9	53381.9	53381.9
2.5°	52224.3	52401.0	52047.5	52281.7	52462.9	52895.9	52931.2	53081.5	53134.5	53527.8
5°	51234.5	51371.5	51084.2	51398.0	51654.2	52038.7	52334.7	52750.1	52979.8	53443.8
7.5°	50204.9	50235.9	50178.4	50509.8	50894.2	51424.5	51791.2	52334.7	52476.1	53138.9
10°	48958.9	48733.5	48844.0	49330.0	49904.5	50717.5	50969.4	51512.9	51764.7	52440.8
12.5°	46970.5	47085.3	46948.4	47567.0	48044.2	48967.7	49232.8	49780.7	50262.4	50858.9
15°	44169.0	44102.7	44381.1	44862.8	45379.7	46113.2	46541.8	47138.4	47505.1	48123.7
17.5°	37872.4	38097.8	39246.6	40452.9	41513.4	42370.6	42883.2	43378.1	43643.2	44314.8
20°	32707.0	32424.2	32578.9	33259.3	36277.3	37589.6	38128.7	38248.0	38358.5	38888.7
22.5°	26931.8	26839.0	27356.0	28120.4	28836.2	31863.0	32596.5	32318.1	32547.9	33047.2
25°	19998.9	20467.3	20926.8	22393.8	23321.7	24806.4	26198.3	26322.0	26406.0	26719.7
27.5°	16278.4	16114.9	16106.1	16517.0	17886.8	19124.0	20308.2	20582.2	20533.6	20834.0
30°	12796.5	12743.4	12557.9	12655.1	12518.1	13618.3	14175.1	15301.9	15240.0	15248.8
32.5°	9230.6	9031.8	8956.6	9102.5	8961.1	8859.4	9345.5	10618.1	10596.0	10684.3
35°	5585.2	5558.7	5620.5	5748.7	5465.9	5457.1	5558.7	6756.1	6902.0	7043.4
37.5°	3084.2	3057.7	3106.3	3579.1	3486.3	3402.4	3428.9	4060.8	4480.5	4586.6
40°	2032.6	2028.2	2063.5	2147.5	2306.5	2275.6	2288.9	2571.7	2969.3	3062.1
42.5°	1361.0	1365.4	1387.5	1484.7	1506.8	1665.8	1639.3	1705.6	2076.8	2156.3
45°	1087.0	1082.6	1095.8	1051.6	1078.2	1241.6	1259.3	1263.7	1581.9	1630.5
47.5°	857.2	857.2	870.5	813.0	799.8	901.4	994.2	1007.5	1263.7	1330.0
50°	600.9	600.9	667.2	640.7	671.6	702.6	804.2	817.5	1034.0	1104.7
52.5°	441.9	450.7	459.5	464.0	565.6	561.2	649.5	711.4	782.1	905.8
55°	335.8	344.7	322.6	344.7	419.8	468.4	486.1	574.4	623.0	760.0
57.5°	220.9	243.0	225.4	265.1	282.8	362.3	388.8	472.8	503.7	623.0
60°	30.9	35.3	57.4	185.6	198.8	238.6	300.5	375.6	406.5	508.1
62.5°	4.4	4.4	13.3	30.9	132.6	159.1	225.4	260.7	300.5	380.0
65°	0.0	0.0	4.4	8.8	26.5	92.8	114.9	141.4	207.7	274.0
67.5°	0.0	0.0	4.4	8.8	13.3	30.9	48.6	92.8	119.3	190.0
70°	0.0	0.0	4.4	8.8	13.3	17.7	26.5	35.3	70.7	110.5
72.5°	0.0	0.0	4.4	8.8	13.3	17.7	22.1	26.5	30.9	70.7
75°	0.0	0.0	4.4	8.8	13.3	22.1	26.5	26.5	26.5	30.9
77.5°	0.0	0.0	4.4	8.8	17.7	26.5	30.9	26.5	22.1	22.1
80°	0.0	0.0	4.4	13.3	22.1	30.9	35.3	26.5	17.7	13.3
82.5°	0.0	0.0	4.4	13.3	22.1	30.9	35.3	30.9	17.7	13.3
85°	0.0	0.0	4.4	13.3	17.7	22.1	35.3	30.9	17.7	8.8
87.5°	0.0	0.0	0.0	4.4	4.4	8.8	17.7	13.3	8.8	4.4
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°
53381.9	0°	53381.9	53381.9	53381.9	53381.9	53381.9	53381.9	53381.9	53381.9	53381.9
53518.9	2.5°	53916.6	54115.4	54464.5	54561.7	54862.2	54517.5	54327.5	54345.2	53934.3
53386.4	5°	53916.6	54371.7	54981.5	55273.1	55494.1	55476.4	55427.8	55304.1	55003.6
53121.2	7.5°	53775.2	54517.5	55357.1	55745.9	56011.1	55989.0	56099.4	55900.6	55533.8
52648.4	10°	53320.1	53965.2	54999.2	55317.3	55745.9	55754.8	55617.8	55657.6	55003.6
50920.7	12.5°	51888.4	52392.2	53298.0	53660.3	54181.7	54265.7	54115.4	54058.0	53439.4
48088.4	15°	49117.9	49409.6	50319.8	50682.1	51199.1	51128.4	51278.7	51216.8	50673.3
44261.8	17.5°	45066.0	45158.8	46113.2	46418.1	46904.2	47094.2	46868.8	47156.0	46687.7
38981.5	20°	39255.5	39754.8	40828.5	41296.9	41579.7	41919.9	41623.9	41946.4	41398.5
32574.4	22.5°	33361.0	33657.0	34629.1	35305.2	35831.0	35897.3	35786.8	36012.2	35274.2
26927.4	25°	26923.0	27413.4	28182.3	29066.0	29583.0	29901.1	29613.9	29759.7	29640.4
20882.6	27.5°	21236.1	21673.6	22252.4	22910.8	23688.5	24103.8	23874.1	24121.5	23538.3
15571.4	30°	15584.6	15805.6	16459.5	17157.7	18010.5	18514.2	18536.3	18788.2	18443.5
10909.7	32.5°	10989.2	11183.7	11585.8	12049.7	12862.7	13423.9	13335.5	13370.9	13158.8
7109.6	35°	7145.0	7405.7	7692.9	7913.8	8404.3	9022.9	8974.3	8930.1	8784.3
4675.0	37.5°	4776.6	4878.2	5037.3	5236.1	5554.3	5943.1	6071.3	5912.2	5850.3
3154.9	40°	3230.0	3406.8	3512.8	3663.1	3813.3	4140.3	4228.7	4197.7	4135.9
2209.3	42.5°	2293.3	2430.3	2562.8	2708.6	2788.2	2991.4	3163.8	3115.2	3088.7
1679.1	45°	1741.0	1864.7	2019.3	2129.8	2209.3	2328.6	2492.1	2509.8	2470.0
1347.7	47.5°	1396.3	1506.8	1630.5	1767.5	1860.3	1935.4	2076.8	2129.8	2103.3
1135.6	50°	1184.2	1268.2	1387.5	1524.4	1626.1	1692.4	1816.1	1873.5	1855.8
950.0	52.5°	1007.5	1109.1	1219.6	1334.4	1458.2	1524.4	1639.3	1723.3	1710.0
786.5	55°	835.1	967.7	1082.6	1197.5	1338.9	1405.1	1506.8	1617.2	1595.1
667.2	57.5°	729.1	839.5	958.9	1069.3	1219.6	1307.9	1400.7	1515.6	1511.2
547.9	60°	609.8	720.2	852.8	945.6	1104.7	1228.4	1312.3	1431.6	1440.5
415.4	62.5°	486.1	623.0	724.7	852.8	998.6	1144.4	1224.0	1343.3	1387.5
318.1	65°	362.3	512.6	627.5	755.6	892.6	1056.1	1126.8	1246.1	1290.3
229.8	67.5°	269.5	384.4	530.2	640.7	795.4	936.8	1020.7	1131.2	1162.1
137.0	70°	203.3	296.1	441.9	539.1	698.1	813.0	897.0	980.9	1020.7
92.8	72.5°	119.3	220.9	349.1	464.0	600.9	698.1	760.0	826.3	852.8
44.2	75°	84.0	167.9	274.0	384.4	486.1	565.6	623.0	680.5	707.0
22.1	77.5°	44.2	123.7	216.5	309.3	380.0	446.3	503.7	547.9	565.6
17.7	80°	26.5	88.4	176.7	243.0	291.6	349.1	406.5	437.4	433.0
13.3	82.5°	17.7	70.7	128.1	176.7	212.1	256.3	296.1	318.1	318.1
8.8	85°	13.3	48.6	88.4	137.0	141.4	176.7	185.6	207.7	212.1
8.8	87.5°	8.8	30.9	48.6	79.5	75.1	92.8	97.2	110.5	119.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
53381.9
53602.9
55100.8
55617.8
54813.6
53298.0
50845.6
46572.8
41354.3
35172.6
29565.3
23688.5
18505.4
13278.1
8656.2
5837.1
4144.7
3066.6
2465.6
2090.0
1851.4
1701.2
1595.1
1506.8
1440.5
1383.0
1285.8
1162.1
1011.9
844.0
698.1
561.2
428.6
313.7
207.7
114.9
0.0

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