

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: P637662

Luminaire Tested: **IFLD-L-SA8B-740-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637662
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-740-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38230 lumens
Efficiency: N/A
Efficacy: 119.5 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): 320
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



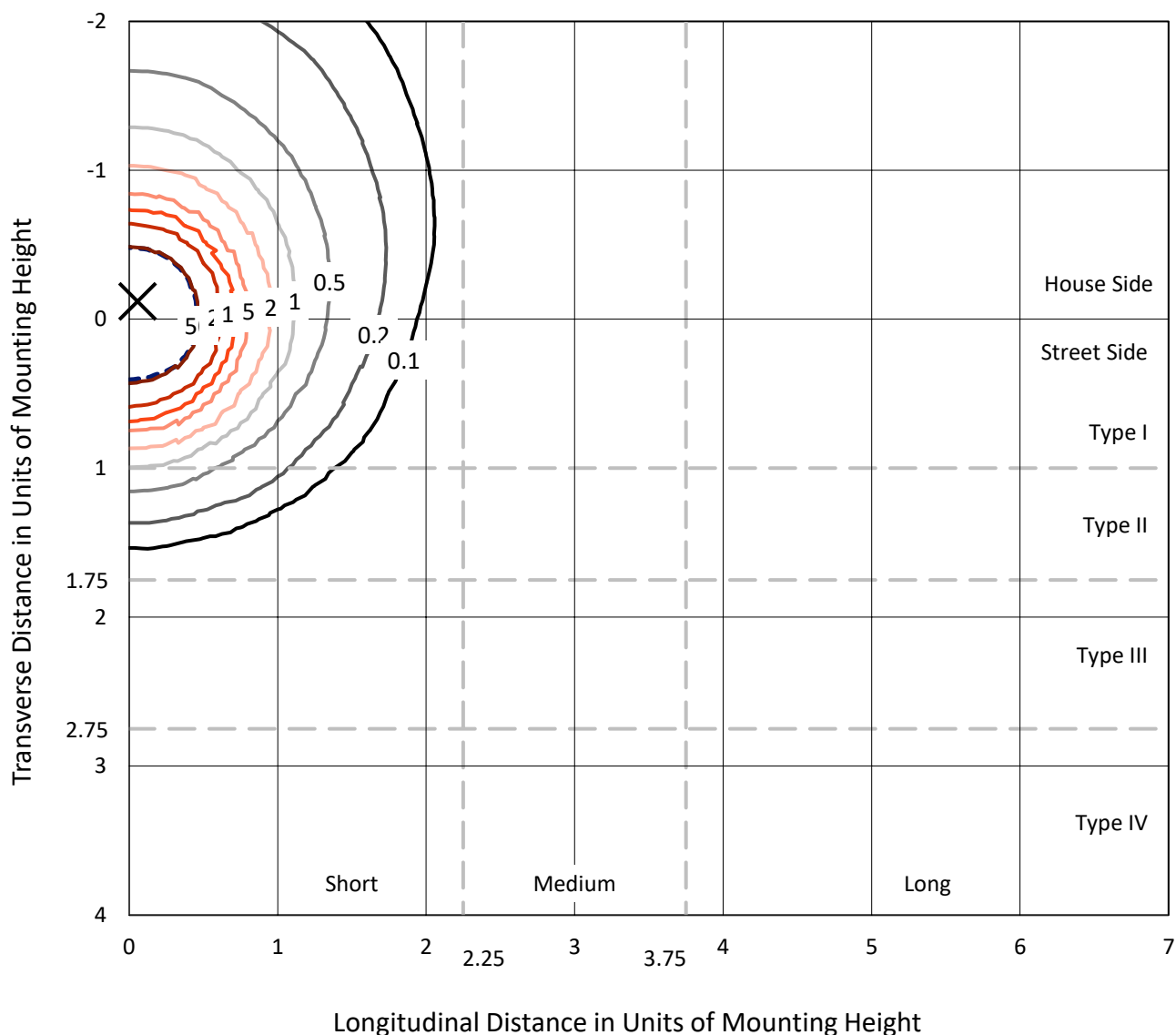
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



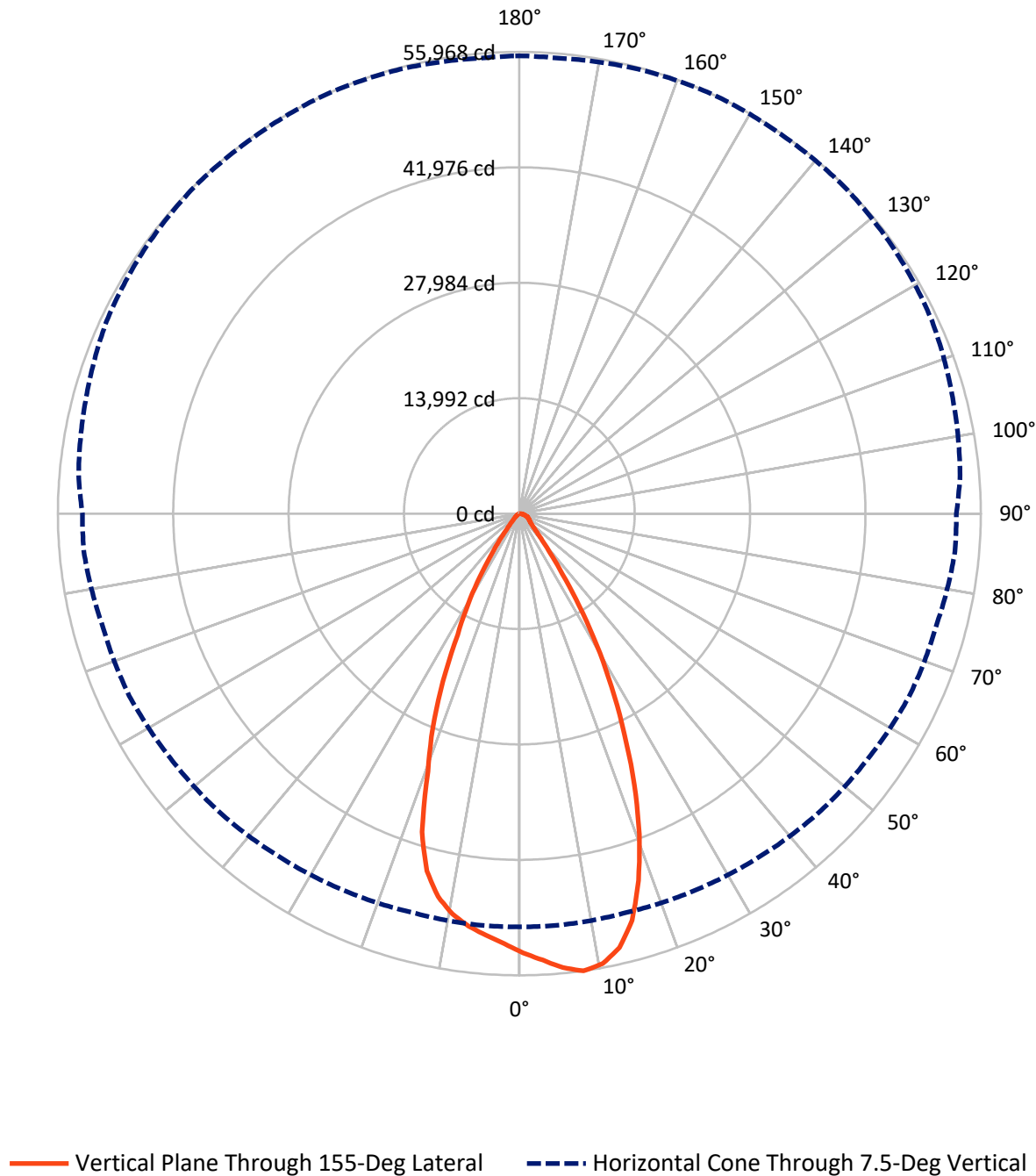
Based on 20 foot mounting height. Maximum calculated value = 135.3 fc

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	21104.3	0.0	21104.3
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	17125.6	0.0	17125.6
	% Fixture	44.8	0.0	44.8
Total	Lumens	38230.0	0.0	38230.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5078.4	13.3
10°-20°	13168.4	34.4
20°-30°	12065.9	31.6
30°-40°	4874.6	12.8
40°-50°	1430.0	3.7
50°-60°	799.5	2.1
60°-70°	485.6	1.3
70°-80°	246.7	0.6
80°-90°	80.7	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°	38230.0	100.0
0°-180°	38230.0	100.0

Coefficient of Utilization



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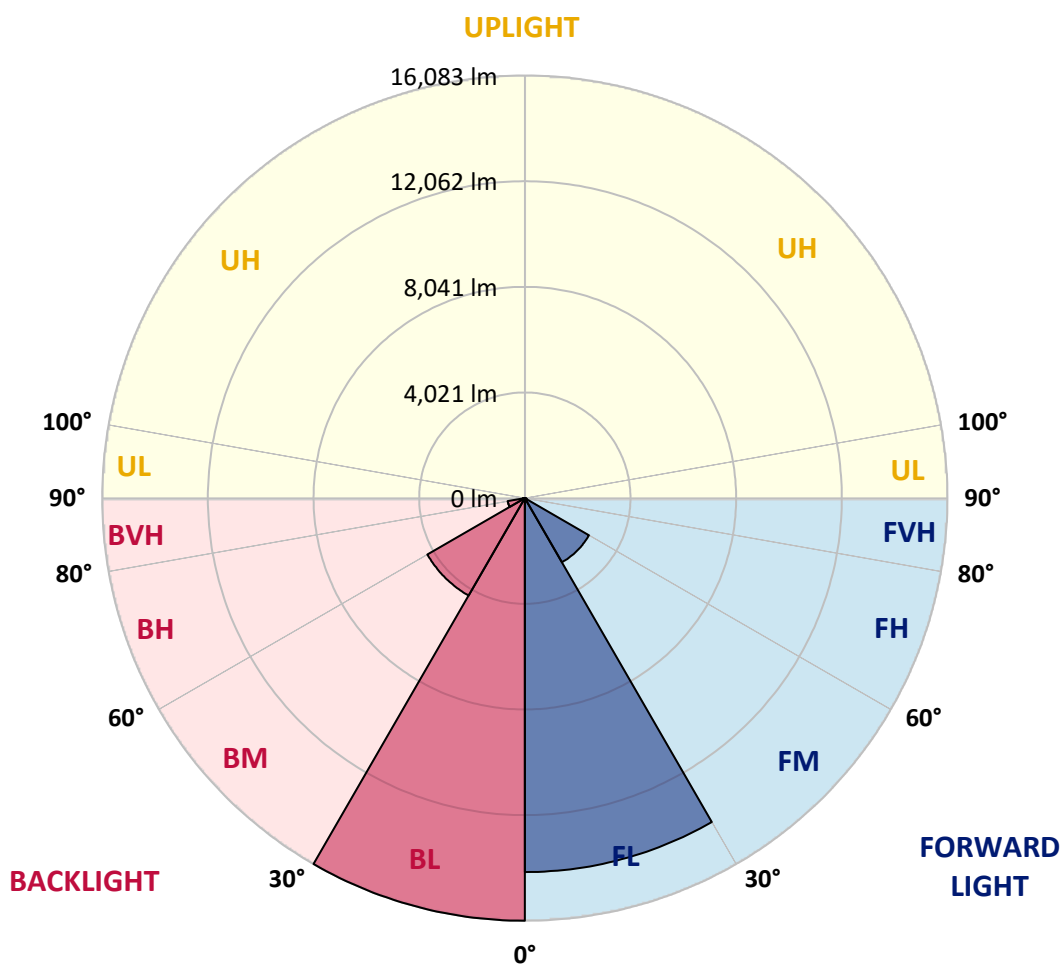
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	14230.2	37.2			
FM	(30°-60°)	2820.2	7.4			
FH	(60°-80°)	68.3	0.2			G0/660
FVH	(80°-90°)	7.0	0.0			G0/10
BL	(0°-30°)	16082.6	42.1	B5		
BM	(30°-60°)	4284.0	11.2	B3/5000		
BH	(60°-80°)	664.0	1.7	B2/1000		G2/1000
BVH	(80°-90°)	73.7	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°	53257.3	53257.3	53257.3	53257.3	53257.3	53257.3	53257.3	53257.3	53257.3	53257.3
2.5°	52102.3	52278.6	51926.0	52159.6	52340.4	52772.4	52807.6	52957.5	53010.4	53402.8
5°	51114.8	51251.5	50965.0	51278.0	51533.6	51917.2	52212.5	52626.9	52856.1	53319.0
7.5°	50087.7	50118.6	50061.2	50391.9	50775.4	51304.4	51670.3	52212.5	52353.6	53014.8
10°	48844.5	48619.7	48729.9	49214.8	49787.9	50599.1	50850.3	51392.6	51643.8	52318.3
12.5°	46860.8	46975.4	46838.7	47455.9	47932.0	48853.4	49117.9	49664.5	50145.0	50740.1
15°	44065.9	43999.8	44277.5	44758.0	45273.8	46005.6	46433.2	47028.3	47394.2	48011.4
17.5°	37784.0	38008.8	39155.0	40358.5	41416.5	42271.7	42783.1	43276.8	43541.3	44211.4
20°	32630.6	32348.5	32502.8	33181.7	36192.6	37501.9	38039.7	38158.7	38268.9	38797.9
22.5°	26868.9	26776.3	27292.1	28054.8	28768.9	31788.6	32520.4	32242.7	32471.9	32970.1
25°	19952.2	20419.5	20878.0	22341.5	23267.3	24748.5	26137.1	26260.6	26344.3	26657.3
27.5°	16240.4	16077.3	16068.4	16478.4	17845.0	19079.3	20260.8	20534.1	20485.6	20785.4
30°	12766.6	12713.7	12528.5	12625.5	12488.9	13586.5	14142.0	15266.1	15204.4	15213.2
32.5°	9209.0	9010.7	8935.7	9081.2	8940.1	8838.7	9323.7	10593.3	10571.2	10659.4
35°	5572.2	5545.7	5607.4	5735.3	5453.1	5444.3	5545.7	6740.4	6885.8	7026.9
37.5°	3077.0	3050.6	3099.1	3570.8	3478.2	3394.4	3420.9	4051.3	4470.1	4575.9
40°	2027.8	2023.4	2058.7	2142.5	2301.2	2270.3	2283.5	2565.7	2962.4	3055.0
42.5°	1357.8	1362.2	1384.2	1481.2	1503.2	1661.9	1635.5	1701.6	2071.9	2151.3
45°	1084.5	1080.0	1093.3	1049.2	1075.6	1238.7	1256.4	1260.8	1578.2	1626.7
47.5°	855.2	855.2	868.4	811.1	797.9	899.3	991.9	1005.1	1260.8	1326.9
50°	599.5	599.5	665.7	639.2	670.1	700.9	802.3	815.5	1031.6	1102.1
52.5°	440.8	449.7	458.5	462.9	564.3	559.9	648.0	709.7	780.3	903.7
55°	335.0	343.9	321.8	343.9	418.8	467.3	484.9	573.1	621.6	758.2
57.5°	220.4	242.5	224.8	264.5	282.1	361.5	387.9	471.7	502.6	621.6
60°	30.9	35.3	57.3	185.2	198.4	238.1	299.8	374.7	405.6	507.0
62.5°	4.4	4.4	13.2	30.9	132.3	158.7	224.8	260.1	299.8	379.1
65°	0.0	0.0	4.4	8.8	26.5	92.6	114.6	141.1	207.2	273.3
67.5°	0.0	0.0	4.4	8.8	13.2	30.9	48.5	92.6	119.0	189.6
70°	0.0	0.0	4.4	8.8	13.2	17.6	26.5	35.3	70.5	110.2
72.5°	0.0	0.0	4.4	8.8	13.2	17.6	22.0	26.5	30.9	70.5
75°	0.0	0.0	4.4	8.8	13.2	22.0	26.5	26.5	26.5	30.9
77.5°	0.0	0.0	4.4	8.8	17.6	26.5	30.9	26.5	22.0	22.0
80°	0.0	0.0	4.4	13.2	22.0	30.9	35.3	26.5	17.6	13.2
82.5°	0.0	0.0	4.4	13.2	22.0	30.9	35.3	30.9	17.6	13.2
85°	0.0	0.0	4.4	13.2	17.6	22.0	35.3	30.9	17.6	8.8
87.5°	0.0	0.0	0.0	4.4	4.4	8.8	17.6	13.2	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°
53257.3	0°	53257.3	53257.3	53257.3	53257.3	53257.3	53257.3	53257.3	53257.3	53257.3
53394.0	2.5°	53790.7	53989.1	54337.3	54434.3	54734.1	54390.2	54200.7	54218.3	53808.3
53261.7	5°	53790.7	54244.8	54853.1	55144.1	55364.5	55346.9	55298.4	55174.9	54875.2
52997.2	7.5°	53649.6	54390.2	55227.8	55615.8	55880.3	55858.2	55968.4	55770.1	55404.2
52525.5	10°	53195.6	53839.2	54870.8	55188.2	55615.8	55624.6	55487.9	55527.6	54875.2
50801.8	12.5°	51767.3	52269.8	53173.5	53535.0	54055.2	54139.0	53989.1	53931.8	53314.6
47976.1	15°	49003.2	49294.2	50202.3	50563.8	51079.6	51009.0	51158.9	51097.2	50555.0
44158.5	17.5°	44960.8	45053.4	46005.6	46309.7	46794.7	46984.2	46759.4	47045.9	46578.6
38890.5	20°	39163.8	39661.9	40733.2	41200.5	41482.6	41822.0	41526.7	41848.5	41301.8
32498.4	22.5°	33283.1	33578.4	34548.3	35222.7	35747.3	35813.5	35703.2	35928.1	35191.9
26864.5	25°	26860.1	27349.4	28116.5	28998.1	29513.9	29831.3	29544.8	29690.3	29571.2
20833.9	27.5°	21186.5	21623.0	22200.5	22857.3	23633.2	24047.6	23818.3	24065.2	23483.3
15535.0	30°	15548.3	15768.7	16421.1	17117.6	17968.4	18471.0	18493.0	18744.3	18400.5
10884.2	32.5°	10963.6	11157.5	11558.7	12021.6	12832.7	13392.6	13304.4	13339.7	13128.1
7093.0	35°	7128.3	7388.4	7674.9	7895.4	8384.7	9001.9	8953.4	8909.3	8763.8
4664.0	37.5°	4765.4	4866.8	5025.5	5223.9	5541.3	5929.2	6057.1	5898.4	5836.7
3147.6	40°	3222.5	3398.8	3504.6	3654.5	3804.4	4130.6	4218.8	4187.9	4126.2
2204.2	42.5°	2287.9	2424.6	2556.8	2702.3	2781.7	2984.5	3156.4	3107.9	3081.4
1675.2	45°	1736.9	1860.3	2014.6	2124.8	2204.2	2323.2	2486.3	2503.9	2464.3
1344.5	47.5°	1393.0	1503.2	1626.7	1763.3	1855.9	1930.9	2071.9	2124.8	2098.4
1132.9	50°	1181.4	1265.2	1384.2	1520.9	1622.3	1688.4	1811.8	1869.1	1851.5
947.8	52.5°	1005.1	1106.5	1216.7	1331.3	1454.8	1520.9	1635.5	1719.3	1706.0
784.7	55°	833.2	965.4	1080.0	1194.7	1335.7	1401.9	1503.2	1613.5	1591.4
665.7	57.5°	727.4	837.6	956.6	1066.8	1216.7	1304.9	1397.4	1512.1	1507.7
546.6	60°	608.4	718.6	850.8	943.4	1102.1	1225.5	1309.3	1428.3	1437.1
414.4	62.5°	484.9	621.6	723.0	850.8	996.3	1141.8	1221.1	1340.1	1384.2
317.4	65°	361.5	511.4	626.0	753.8	890.5	1053.6	1124.1	1243.2	1287.2
229.2	67.5°	268.9	383.5	529.0	639.2	793.5	934.6	1018.3	1128.5	1159.4
136.7	70°	202.8	295.4	440.8	537.8	696.5	811.1	894.9	978.7	1018.3
92.6	72.5°	119.0	220.4	348.3	462.9	599.5	696.5	758.2	824.4	850.8
44.1	75°	83.8	167.5	273.3	383.5	484.9	564.3	621.6	678.9	705.3
22.0	77.5°	44.1	123.4	216.0	308.6	379.1	445.2	502.6	546.6	564.3
17.6	80°	26.5	88.2	176.3	242.5	291.0	348.3	405.6	436.4	432.0
13.2	82.5°	17.6	70.5	127.8	176.3	211.6	255.7	295.4	317.4	317.4
8.8	85°	13.2	48.5	88.2	136.7	141.1	176.3	185.2	207.2	211.6
8.8	87.5°	8.8	30.9	48.5	79.4	74.9	92.6	97.0	110.2	119.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
53257.3
53477.7
54972.1
55487.9
54685.6
53173.5
50726.9
46464.0
41257.8
35090.5
29496.3
23633.2
18462.2
13247.1
8636.0
5823.4
4135.0
3059.4
2459.9
2085.2
1847.1
1697.2
1591.4
1503.2
1437.1
1379.8
1282.8
1159.4
1009.5
842.0
696.5
559.9
427.6
313.0
207.2
114.6
0.0

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