

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: P637568

Luminaire Tested: **IFLD-M-SA4E-727-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637568
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-727-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (64) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28441.3 lumens
Efficiency: N/A
Efficacy: 90.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 314.8
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



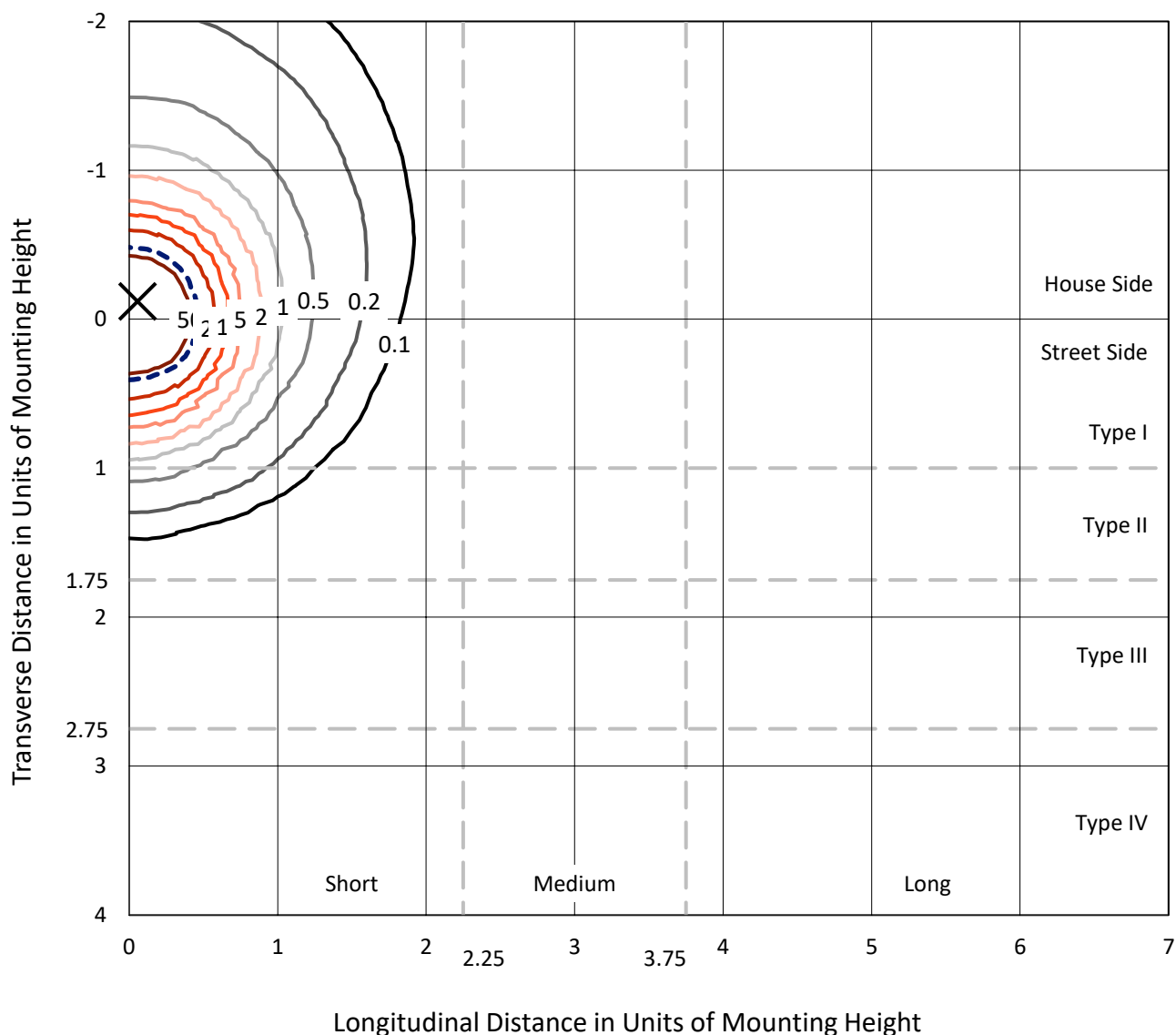
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



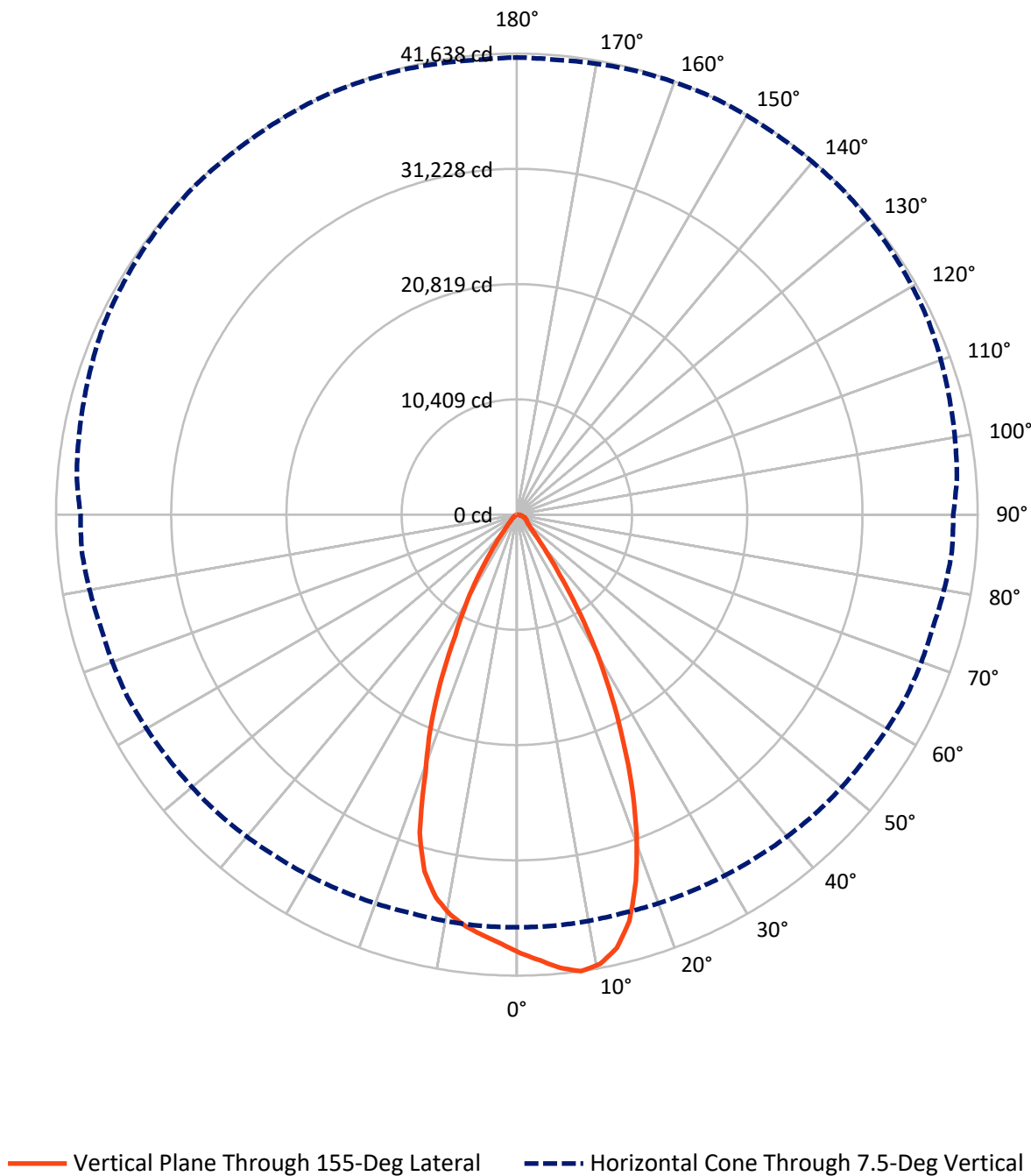
Based on 20 foot mounting height. Maximum calculated value = 100.7 fc

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	15700.6	0.0	15700.6
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	12740.7	0.0	12740.7
	% Fixture	44.8	0.0	44.8
Total	Lumens	28441.3	0.0	28441.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3778.1	13.3
10°-20°	9796.7	34.4
20°-30°	8976.5	31.6
30°-40°	3626.5	12.8
40°-50°	1063.8	3.7
50°-60°	594.8	2.1
60°-70°	361.3	1.3
70°-80°	183.6	0.6
80°-90°	60.0	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°	28441.3	100.0
0°-180°	28441.3	100.0

Coefficient of Utilization



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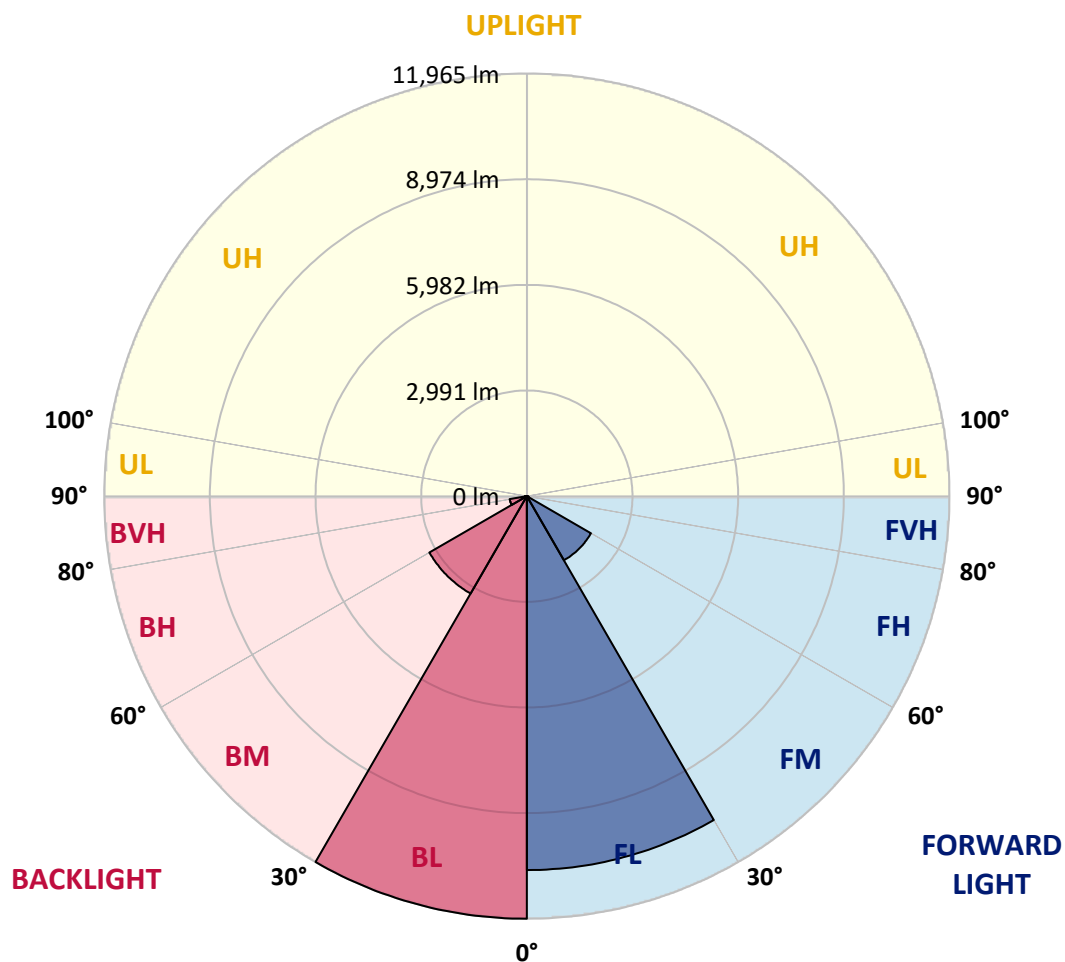
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	10586.6	37.2			
FM	(30°-60°)	2098.1	7.4			
FH	(60°-80°)	50.8	0.2			G0/660
FVH	(80°-90°)	5.2	0.0			G0/10
BL	(0°-30°)	11964.7	42.1	B5		
BM	(30°-60°)	3187.1	11.2	B3/5000		
BH	(60°-80°)	494.0	1.7	B1/500		G1/500
BVH	(80°-90°)	54.8	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-G1

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	39620.9	39620.9	39620.9	39620.9	39620.9	39620.9	39620.9	39620.9	39620.9	39620.9
2.5°	38761.7	38892.8	38630.5	38804.3	38938.8	39260.2	39286.4	39397.9	39437.3	39729.1
5°	38027.0	38128.7	37915.5	38148.4	38338.6	38623.9	38843.7	39151.9	39322.5	39666.8
7.5°	37262.9	37285.8	37243.2	37489.2	37774.5	38168.1	38440.3	38843.7	38948.6	39440.5
10°	36338.0	36170.8	36252.8	36613.5	37039.9	37643.3	37830.3	38233.6	38420.6	38922.4
12.5°	34862.2	34947.5	34845.8	35305.0	35659.2	36344.6	36541.4	36948.0	37305.5	37748.3
15°	32782.9	32733.7	32940.4	33297.8	33681.6	34226.0	34544.1	34986.8	35259.0	35718.2
17.5°	28109.5	28276.8	29129.5	30024.8	30811.9	31448.1	31828.6	32195.9	32392.7	32891.2
20°	24275.6	24065.7	24180.5	24685.6	26925.6	27899.6	28299.7	28388.3	28470.3	28863.8
22.5°	19989.2	19920.3	20304.0	20871.4	21402.7	23649.2	24193.7	23987.0	24157.6	24528.2
25°	14843.5	15191.1	15532.2	16621.0	17309.8	18411.7	19444.8	19536.6	19598.9	19831.8
27.5°	12082.1	11960.7	11954.2	12259.2	13275.8	14194.1	15073.1	15276.4	15240.3	15463.3
30°	9497.7	9458.4	9320.6	9392.8	9291.1	10107.7	10521.0	11357.3	11311.4	11317.9
32.5°	6851.1	6703.5	6647.8	6756.0	6651.0	6575.6	6936.4	7880.9	7864.5	7930.1
35°	4145.4	4125.7	4171.7	4266.8	4056.9	4050.3	4125.7	5014.5	5122.7	5227.7
37.5°	2289.2	2269.5	2305.6	2656.5	2587.6	2525.3	2545.0	3014.0	3325.5	3404.2
40°	1508.6	1505.3	1531.6	1593.9	1712.0	1689.0	1698.8	1908.7	2203.9	2272.8
42.5°	1010.1	1013.4	1029.8	1101.9	1118.3	1236.4	1216.7	1265.9	1541.4	1600.4
45°	806.8	803.5	813.3	780.5	800.2	921.6	934.7	938.0	1174.1	1210.2
47.5°	636.2	636.2	646.1	603.4	593.6	669.0	737.9	747.8	938.0	987.2
50°	446.0	446.0	495.2	475.5	498.5	521.5	596.9	606.7	767.4	819.9
52.5°	328.0	334.5	341.1	344.4	419.8	416.5	482.1	528.0	580.5	672.3
55°	249.3	255.8	239.4	255.8	311.6	347.6	360.8	426.3	462.4	564.1
57.5°	164.0	180.4	167.3	196.8	209.9	268.9	288.6	350.9	373.9	462.4
60°	23.0	26.2	42.6	137.7	147.6	177.1	223.0	278.8	301.7	377.2
62.5°	3.3	3.3	9.8	23.0	98.4	118.1	167.3	193.5	223.0	282.0
65°	0.0	0.0	3.3	6.6	19.7	68.9	85.3	104.9	154.1	203.3
67.5°	0.0	0.0	3.3	6.6	9.8	23.0	36.1	68.9	88.5	141.0
70°	0.0	0.0	3.3	6.6	9.8	13.1	19.7	26.2	52.5	82.0
72.5°	0.0	0.0	3.3	6.6	9.8	13.1	16.4	19.7	23.0	52.5
75°	0.0	0.0	3.3	6.6	9.8	16.4	19.7	19.7	19.7	23.0
77.5°	0.0	0.0	3.3	6.6	13.1	19.7	23.0	19.7	16.4	16.4
80°	0.0	0.0	3.3	9.8	16.4	23.0	26.2	19.7	13.1	9.8
82.5°	0.0	0.0	3.3	9.8	16.4	23.0	26.2	23.0	13.1	9.8
85°	0.0	0.0	3.3	9.8	13.1	16.4	26.2	23.0	13.1	6.6
87.5°	0.0	0.0	0.0	3.3	3.3	6.6	13.1	9.8	6.6	3.3
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°
39620.9	0°	39620.9	39620.9	39620.9	39620.9	39620.9	39620.9	39620.9	39620.9	39620.9
39722.6	2.5°	40017.7	40165.3	40424.4	40496.6	40719.6	40463.8	40322.8	40335.9	40030.9
39624.2	5°	40017.7	40355.5	40808.1	41024.6	41188.6	41175.4	41139.4	41047.5	40824.5
39427.4	7.5°	39912.8	40463.8	41086.9	41375.5	41572.3	41555.9	41637.9	41490.3	41218.1
39076.5	10°	39575.0	40053.8	40821.3	41057.4	41375.5	41382.1	41280.4	41309.9	40824.5
37794.2	12.5°	38512.4	38886.3	39558.6	39827.5	40214.5	40276.8	40165.3	40122.7	39663.6
35691.9	15°	36456.1	36672.6	37348.1	37617.1	38000.8	37948.3	38059.8	38013.9	37610.5
32851.8	17.5°	33448.7	33517.6	34226.0	34452.3	34813.0	34954.0	34786.8	35000.0	34652.3
28932.7	20°	29136.0	29506.6	30303.6	30651.2	30861.1	31113.6	30893.9	31133.3	30726.6
24177.3	22.5°	24761.0	24980.8	25702.3	26204.0	26594.3	26643.5	26561.5	26728.8	26181.1
19985.9	25°	19982.6	20346.7	20917.3	21573.2	21957.0	22193.1	21979.9	22088.1	21999.6
15499.4	27.5°	15761.8	16086.5	16516.1	17004.8	17582.0	17890.2	17719.7	17903.4	17470.5
11557.3	30°	11567.2	11731.1	12216.5	12734.7	13367.7	13741.5	13757.9	13944.9	13689.1
8097.3	32.5°	8156.4	8300.7	8599.1	8943.5	9546.9	9963.4	9897.9	9924.1	9766.7
5276.9	35°	5303.1	5496.6	5709.8	5873.8	6237.8	6697.0	6660.9	6628.1	6519.9
3469.8	37.5°	3545.3	3620.7	3738.8	3886.3	4122.5	4411.1	4506.2	4388.1	4342.2
2341.6	40°	2397.4	2528.6	2607.3	2718.8	2830.3	3073.0	3138.6	3115.6	3069.7
1639.8	42.5°	1702.1	1803.8	1902.2	2010.4	2069.4	2220.3	2348.2	2312.1	2292.4
1246.3	45°	1292.2	1384.0	1498.8	1580.8	1639.8	1728.4	1849.7	1862.8	1833.3
1000.3	47.5°	1036.4	1118.3	1210.2	1311.8	1380.7	1436.5	1541.4	1580.8	1561.1
842.9	50°	878.9	941.2	1029.8	1131.5	1206.9	1256.1	1347.9	1390.6	1377.4
705.1	52.5°	747.8	823.2	905.2	990.4	1082.3	1131.5	1216.7	1279.0	1269.2
583.8	55°	619.8	718.2	803.5	888.8	993.7	1042.9	1118.3	1200.3	1183.9
495.2	57.5°	541.1	623.1	711.7	793.7	905.2	970.8	1039.6	1124.9	1121.6
406.7	60°	452.6	534.6	633.0	701.8	819.9	911.7	974.0	1062.6	1069.2
308.3	62.5°	360.8	462.4	537.9	633.0	741.2	849.4	908.5	997.0	1029.8
236.1	65°	268.9	380.4	465.7	560.8	662.5	783.8	836.3	924.8	957.6
170.5	67.5°	200.1	285.3	393.6	475.5	590.3	695.3	757.6	839.6	862.5
101.7	70°	150.9	219.7	328.0	400.1	518.2	603.4	665.8	728.1	757.6
68.9	72.5°	88.5	164.0	259.1	344.4	446.0	518.2	564.1	613.3	633.0
32.8	75°	62.3	124.6	203.3	285.3	360.8	419.8	462.4	505.1	524.7
16.4	77.5°	32.8	91.8	160.7	229.6	282.0	331.2	373.9	406.7	419.8
13.1	80°	19.7	65.6	131.2	180.4	216.5	259.1	301.7	324.7	321.4
9.8	82.5°	13.1	52.5	95.1	131.2	157.4	190.2	219.7	236.1	236.1
6.6	85°	9.8	36.1	65.6	101.7	104.9	131.2	137.7	154.1	157.4
6.6	87.5°	6.6	23.0	36.1	59.0	55.8	68.9	72.2	82.0	88.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
39620.9
39784.9
40896.7
41280.4
40683.5
39558.6
37738.4
34567.0
30693.8
26105.7
21943.8
17582.0
13735.0
9855.2
6424.7
4332.4
3076.3
2276.0
1830.0
1551.3
1374.2
1262.6
1183.9
1118.3
1069.2
1026.5
954.4
862.5
751.0
626.4
518.2
416.5
318.1
232.9
154.1
85.3
0.0

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