

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: P637772

Luminaire Tested: **IFLD-L-SA7A-830-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637772
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-830-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5
distribution lens and Visor
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23362.8 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 217.6
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



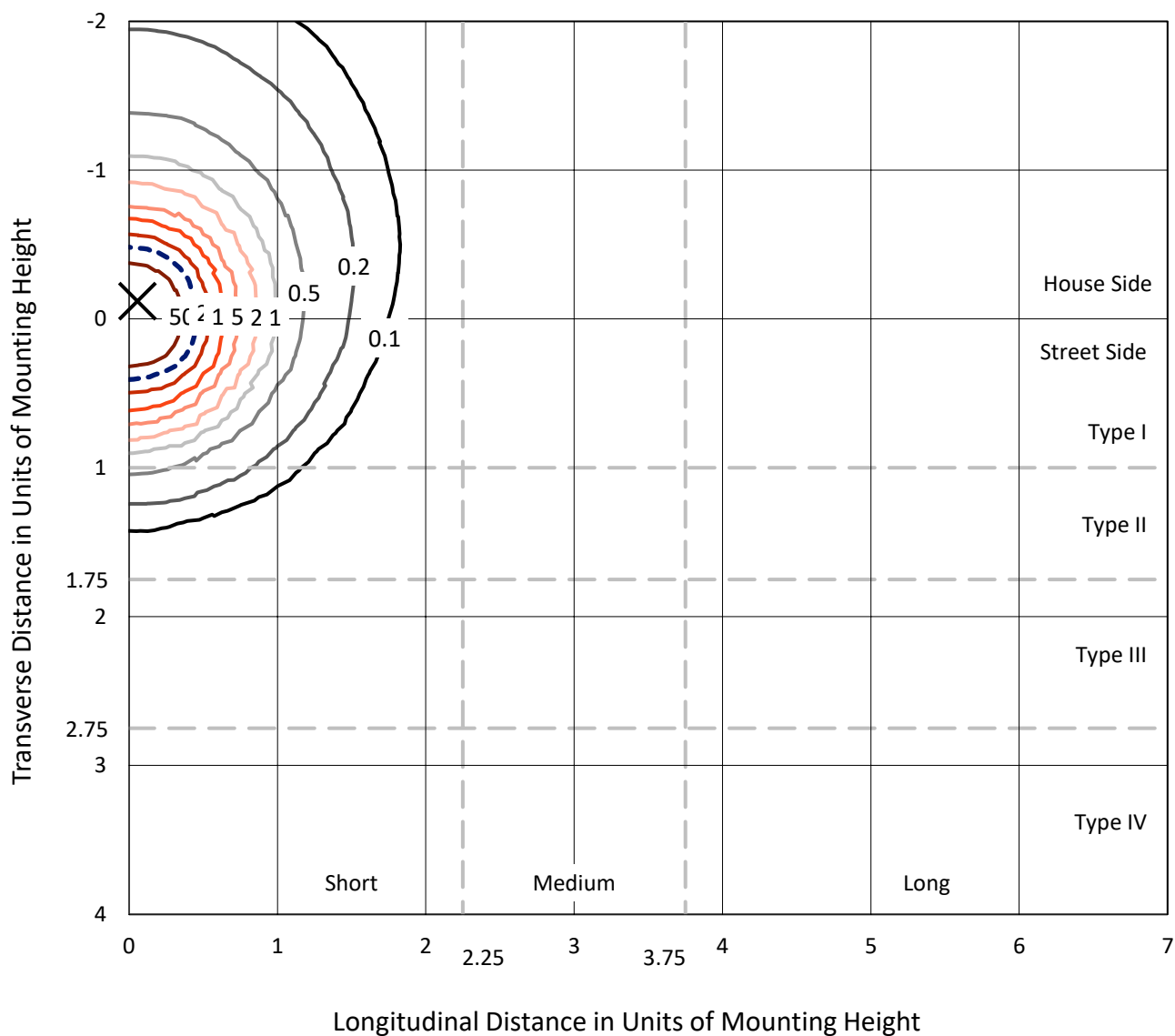
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



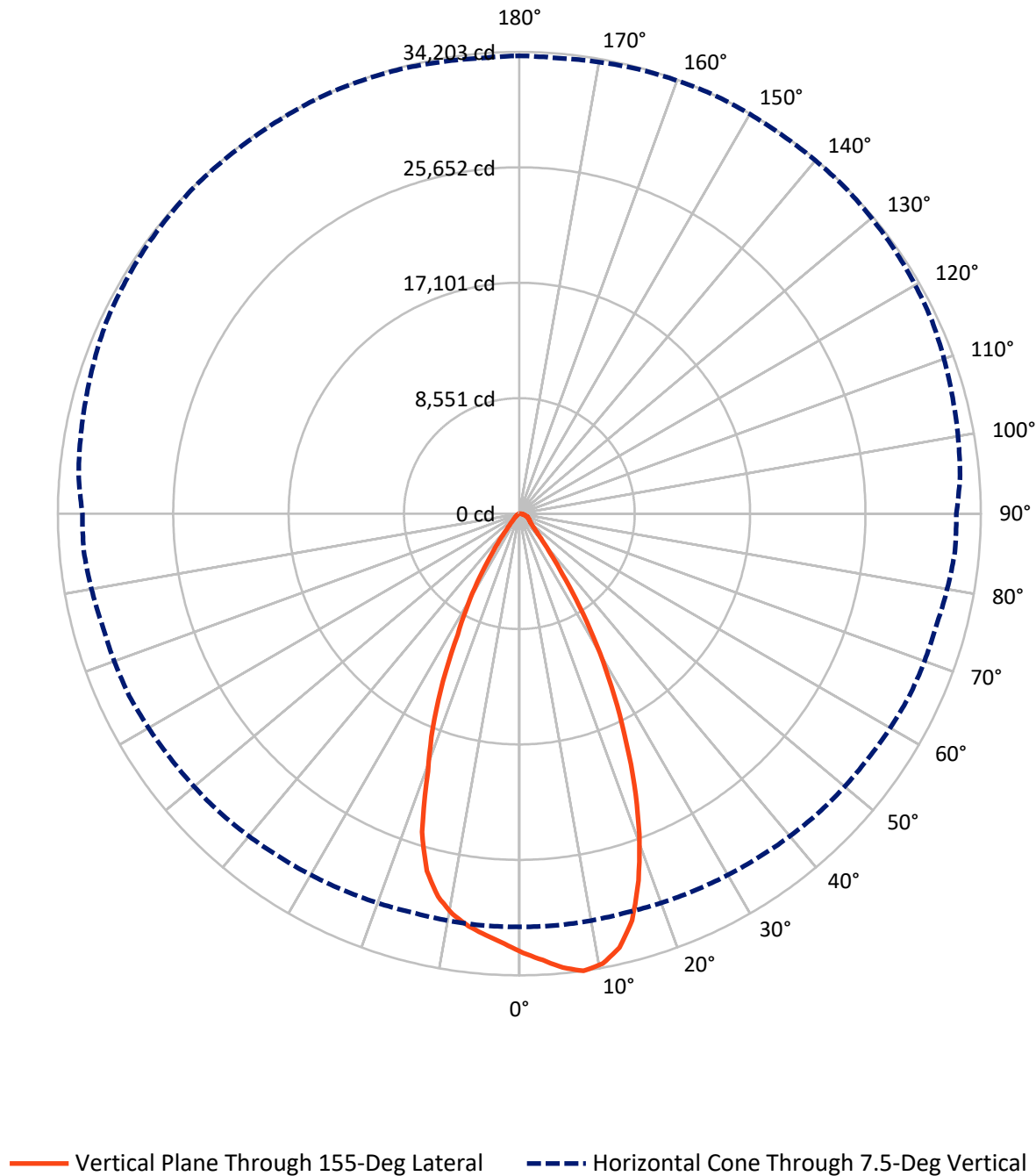
Based on 20 foot mounting height. Maximum calculated value = 82.7 fc

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	12897.1	0.0	12897.1
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	10465.7	0.0	10465.7
	% Fixture	44.8	0.0	44.8
Total	Lumens	23362.8	0.0	23362.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3103.5	13.3
10°-20°	8047.3	34.4
20°-30°	7373.6	31.6
30°-40°	2978.9	12.8
40°-50°	873.9	3.7
50°-60°	488.6	2.1
60°-70°	296.8	1.3
70°-80°	150.8	0.6
80°-90°	49.3	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°	23362.8	100.0
0°-180°	23362.8	100.0

Coefficient of Utilization



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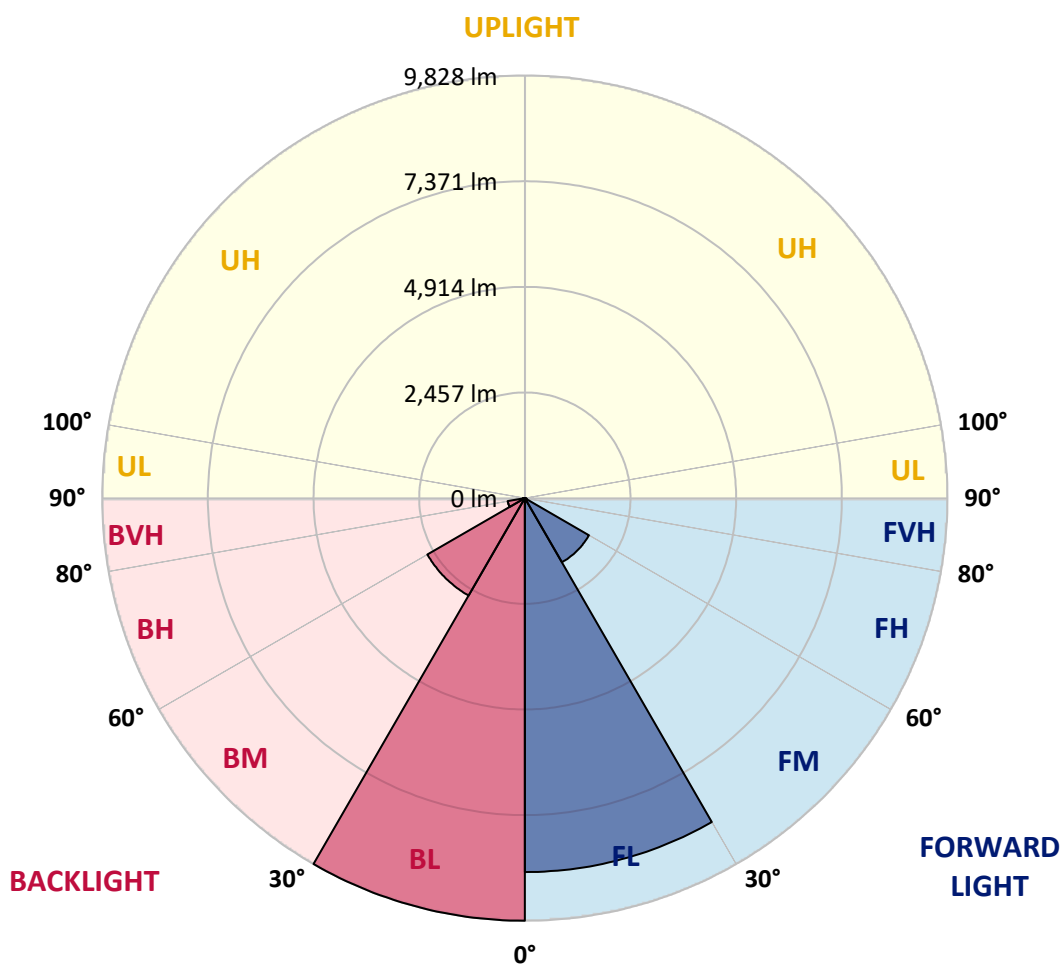
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	8696.2	37.2			
FM	(30°-60°)	1723.4	7.4			
FH	(60°-80°)	41.8	0.2			G0/660
FVH	(80°-90°)	4.3	0.0			G0/10
BL	(0°-30°)	9828.2	42.1	B5		
BM	(30°-60°)	2618.0	11.2	B3/5000		
BH	(60°-80°)	405.8	1.7	B1/500		G1/500
BVH	(80°-90°)	45.0	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°	32546.1	32546.1	32546.1	32546.1	32546.1	32546.1	32546.1	32546.1	32546.1	32546.1
2.5°	31840.3	31948.0	31732.5	31875.3	31985.7	32249.8	32271.3	32362.9	32395.2	32635.0
5°	31236.8	31320.3	31145.2	31336.5	31492.7	31727.1	31907.6	32160.9	32300.9	32583.8
7.5°	30609.1	30628.0	30593.0	30795.0	31029.4	31352.7	31576.3	31907.6	31993.8	32397.9
10°	29849.4	29712.0	29779.4	30075.7	30425.9	30921.6	31075.2	31406.5	31560.1	31972.3
12.5°	28637.1	28707.2	28623.6	29000.8	29291.8	29854.8	30016.4	30350.5	30644.1	31007.8
15°	26929.1	26888.7	27058.4	27352.1	27667.3	28114.5	28375.8	28739.5	28963.1	29340.3
17.5°	23090.2	23227.6	23928.0	24663.5	25310.0	25832.7	26145.2	26446.9	26608.5	27018.0
20°	19940.9	19768.5	19862.8	20277.7	22117.7	22917.8	23246.4	23319.2	23386.5	23709.8
22.5°	16419.9	16363.3	16678.5	17144.6	17581.0	19426.4	19873.6	19703.8	19843.9	20148.4
25°	12193.0	12478.6	12758.7	13653.1	14218.9	15124.1	15972.7	16048.1	16099.3	16290.6
27.5°	9924.7	9825.0	9819.6	10070.1	10905.3	11659.6	12381.6	12548.6	12519.0	12702.2
30°	7801.8	7769.5	7656.3	7715.6	7632.1	8302.9	8642.3	9329.3	9291.6	9297.0
32.5°	5627.7	5506.5	5460.7	5549.6	5463.4	5401.5	5697.8	6473.7	6460.2	6514.1
35°	3405.2	3389.0	3426.8	3504.9	3332.5	3327.1	3389.0	4119.1	4208.0	4294.2
37.5°	1880.4	1864.2	1893.9	2182.1	2125.6	2074.4	2090.5	2475.8	2731.7	2796.4
40°	1239.2	1236.5	1258.1	1309.3	1406.3	1387.4	1395.5	1567.9	1810.4	1866.9
42.5°	829.7	832.4	845.9	905.2	918.7	1015.6	999.5	1039.9	1266.2	1314.7
45°	662.7	660.0	668.1	641.2	657.3	757.0	767.8	770.5	964.4	994.1
47.5°	522.6	522.6	530.7	495.7	487.6	549.6	606.1	614.2	770.5	810.9
50°	366.4	366.4	406.8	390.6	409.5	428.3	490.3	498.4	630.4	673.5
52.5°	269.4	274.8	280.2	282.9	344.8	342.1	396.0	433.7	476.8	552.3
55°	204.7	210.1	196.7	210.1	255.9	285.6	296.3	350.2	379.9	463.4
57.5°	134.7	148.2	137.4	161.6	172.4	220.9	237.1	288.3	307.1	379.9
60°	18.9	21.6	35.0	113.1	121.2	145.5	183.2	229.0	247.8	309.8
62.5°	2.7	2.7	8.1	18.9	80.8	97.0	137.4	158.9	183.2	231.7
65°	0.0	0.0	2.7	5.4	16.2	56.6	70.0	86.2	126.6	167.0
67.5°	0.0	0.0	2.7	5.4	8.1	18.9	29.6	56.6	72.7	115.8
70°	0.0	0.0	2.7	5.4	8.1	10.8	16.2	21.6	43.1	67.3
72.5°	0.0	0.0	2.7	5.4	8.1	10.8	13.5	16.2	18.9	43.1
75°	0.0	0.0	2.7	5.4	8.1	13.5	16.2	16.2	16.2	18.9
77.5°	0.0	0.0	2.7	5.4	10.8	16.2	18.9	16.2	13.5	13.5
80°	0.0	0.0	2.7	8.1	13.5	18.9	21.6	16.2	10.8	8.1
82.5°	0.0	0.0	2.7	8.1	13.5	18.9	21.6	18.9	10.8	8.1
85°	0.0	0.0	2.7	8.1	10.8	13.5	21.6	18.9	10.8	5.4
87.5°	0.0	0.0	0.0	2.7	2.7	5.4	10.8	8.1	5.4	2.7
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°
32546.1	0°	32546.1	32546.1	32546.1	32546.1	32546.1	32546.1	32546.1	32546.1	32546.1
32629.6	2.5°	32872.1	32993.3	33206.1	33265.4	33448.6	33238.5	33122.6	33133.4	32882.8
32548.8	5°	32872.1	33149.6	33521.3	33699.1	33833.8	33823.1	33793.4	33718.0	33534.8
32387.2	7.5°	32785.9	33238.5	33750.3	33987.4	34149.0	34135.6	34202.9	34081.7	33858.1
32098.9	10°	32508.4	32901.7	33532.1	33726.1	33987.4	33992.8	33909.3	33933.5	33534.8
31045.5	12.5°	31635.5	31942.6	32494.9	32715.8	33033.7	33084.9	32993.3	32958.3	32581.1
29318.7	15°	29946.4	30124.2	30679.2	30900.1	31215.3	31172.2	31263.8	31226.0	30894.7
26985.7	17.5°	27476.0	27532.6	28114.5	28300.4	28596.7	28712.6	28575.2	28750.3	28464.7
23766.4	20°	23933.4	24237.8	24892.5	25178.0	25350.5	25557.9	25377.4	25574.1	25240.0
19860.1	22.5°	20339.6	20520.1	21112.8	21525.0	21845.6	21886.0	21818.6	21956.0	21506.1
16417.2	25°	16414.5	16713.5	17182.3	17721.1	18036.3	18230.2	18055.1	18144.0	18071.3
12731.8	27.5°	12947.3	13214.0	13566.9	13968.3	14442.5	14695.7	14555.6	14706.5	14350.9
9493.6	30°	9501.7	9636.4	10035.1	10460.8	10980.7	11287.8	11301.3	11454.8	11244.7
6651.5	32.5°	6700.0	6818.5	7063.6	7346.5	7842.2	8184.3	8130.5	8152.0	8022.7
4334.6	35°	4356.2	4515.1	4690.2	4824.9	5124.0	5501.1	5471.5	5444.6	5355.7
2850.2	37.5°	2912.2	2974.2	3071.1	3192.4	3386.3	3623.4	3701.5	3604.6	3566.8
1923.5	40°	1969.3	2077.1	2141.7	2233.3	2324.9	2524.3	2578.1	2559.3	2521.6
1347.0	42.5°	1398.2	1481.7	1562.5	1651.4	1699.9	1823.8	1928.9	1899.3	1883.1
1023.7	45°	1061.4	1136.9	1231.2	1298.5	1347.0	1419.7	1519.4	1530.2	1505.9
821.7	47.5°	851.3	918.7	994.1	1077.6	1134.2	1180.0	1266.2	1298.5	1282.3
692.4	50°	722.0	773.2	845.9	929.4	991.4	1031.8	1107.2	1142.3	1131.5
579.2	52.5°	614.2	676.2	743.5	813.6	889.0	929.4	999.5	1050.7	1042.6
479.5	55°	509.2	590.0	660.0	730.1	816.3	856.7	918.7	986.0	972.5
406.8	57.5°	444.5	511.9	584.6	651.9	743.5	797.4	854.0	924.0	921.3
334.1	60°	371.8	439.1	519.9	576.5	673.5	748.9	800.1	872.9	878.2
253.2	62.5°	296.3	379.9	441.8	519.9	608.8	697.7	746.2	819.0	845.9
194.0	65°	220.9	312.5	382.5	460.7	544.2	643.9	687.0	759.7	786.6
140.1	67.5°	164.3	234.4	323.3	390.6	484.9	571.1	622.3	689.7	708.5
83.5	70°	123.9	180.5	269.4	328.7	425.7	495.7	546.9	598.1	622.3
56.6	72.5°	72.7	134.7	212.8	282.9	366.4	425.7	463.4	503.8	519.9
26.9	75°	51.2	102.4	167.0	234.4	296.3	344.8	379.9	414.9	431.0
13.5	77.5°	26.9	75.4	132.0	188.6	231.7	272.1	307.1	334.1	344.8
10.8	80°	16.2	53.9	107.8	148.2	177.8	212.8	247.8	266.7	264.0
8.1	82.5°	10.8	43.1	78.1	107.8	129.3	156.3	180.5	194.0	194.0
5.4	85°	8.1	29.6	53.9	83.5	86.2	107.8	113.1	126.6	129.3
5.4	87.5°	5.4	18.9	29.6	48.5	45.8	56.6	59.3	67.3	72.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
32546.1
32680.8
33594.1
33909.3
33419.0
32494.9
30999.7
28394.7
25213.1
21444.2
18025.5
14442.5
11282.4
8095.4
5277.5
3558.8
2527.0
1869.6
1503.2
1274.3
1128.8
1037.2
972.5
918.7
878.2
843.2
784.0
708.5
616.9
514.6
425.7
342.1
261.3
191.3
126.6
70.0
0.0

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