

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: P637574

Luminaire Tested: **IFLD-L-SA8A-727-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637574
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-727-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (128) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26910.7 lumens
Efficiency: N/A
Efficacy: 108.6 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): 247.8
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



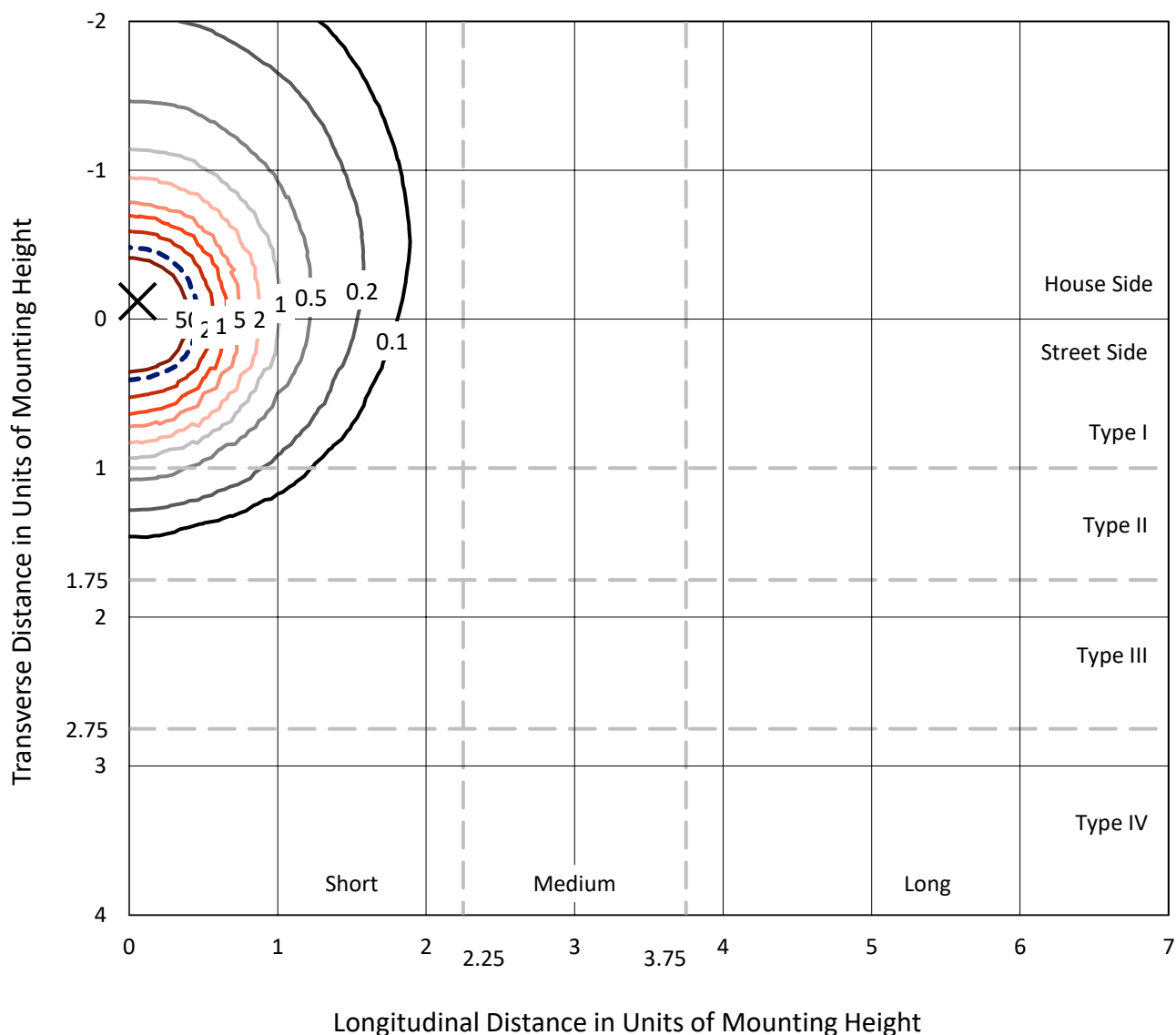
REPORT NUMBER: P637574

CATALOG NUMBER: IFLD-L-SA8A-727-U-55-VI

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



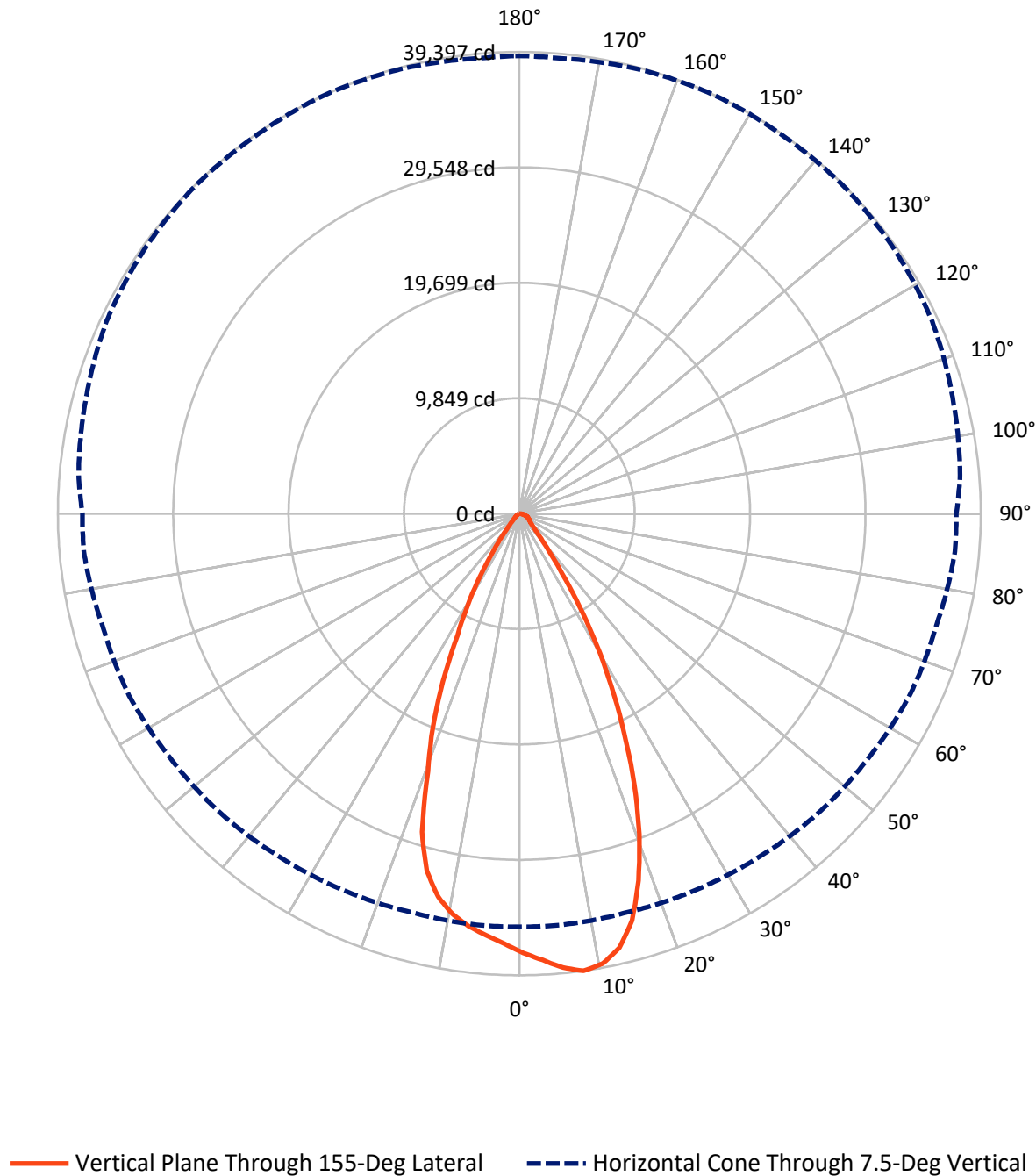
Based on 20 foot mounting height. Maximum calculated value = 95.3 fc

Type I - Short - N/A

REPORT NUMBER: P637574

CATALOG NUMBER: IFLD-L-SA8A-727-U-55-VI

Luminous Intensity Polar Plot



REPORT NUMBER: P637574

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14855.7	0.0	14855.7
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	12055.0	0.0	12055.0
	% Fixture	44.8	0.0	44.8
Total	Lumens	26910.7	0.0	26910.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3574.8	13.3
10°-20°	9269.5	34.4
20°-30°	8493.4	31.6
30°-40°	3431.3	12.8
40°-50°	1006.6	3.7
50°-60°	562.8	2.1
60°-70°	341.8	1.3
70°-80°	173.7	0.6
80°-90°	56.8	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°	26910.7	100.0
0°-180°	26910.7	100.0

Coefficient of Utilization



REPORT NUMBER: P637574

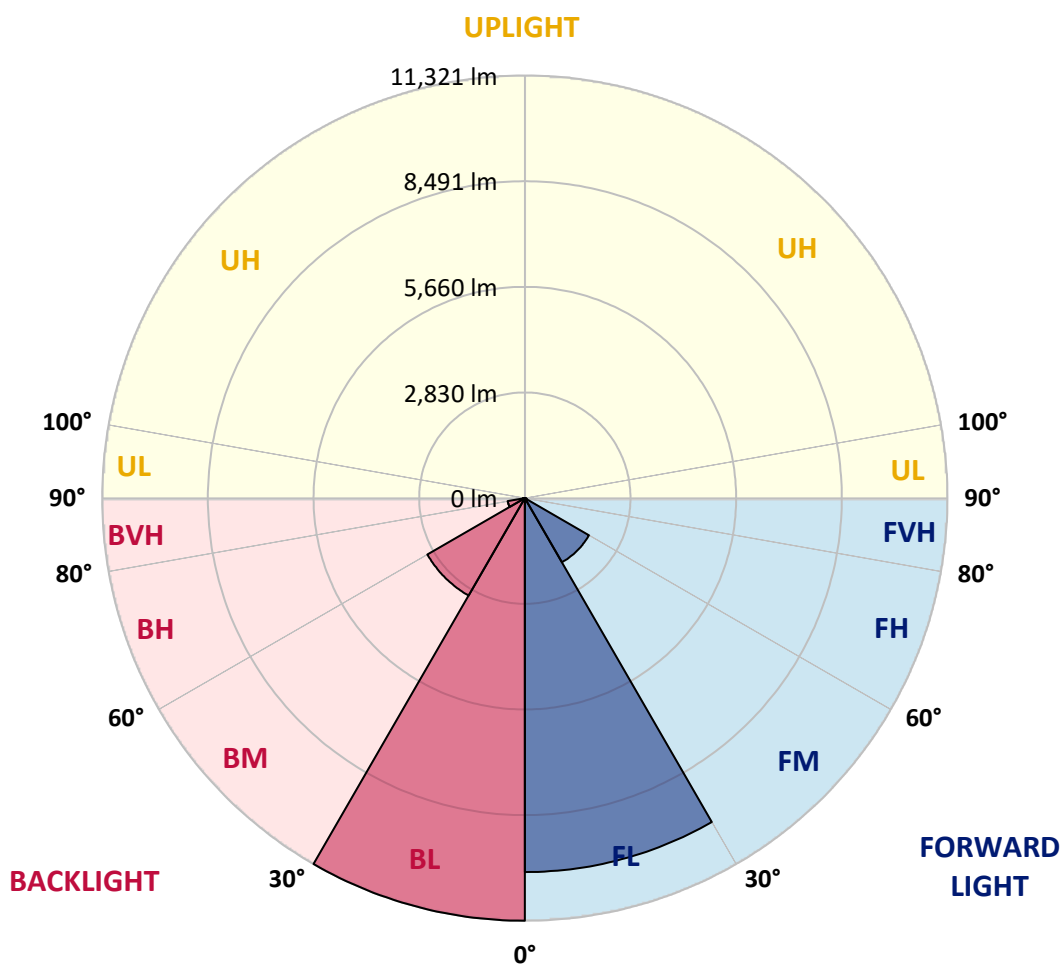
CATALOG NUMBER: IFLD-L-SA8A-727-U-55-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	10016.9	37.2			
FM	(30°-60°)	1985.2	7.4			
FH	(60°-80°)	48.1	0.2			G0/660
FVH	(80°-90°)	4.9	0.0			G0/10
BL	(0°-30°)	11320.8	42.1	B5		
BM	(30°-60°)	3015.6	11.2	B3/5000		
BH	(60°-80°)	467.4	1.7	B1/500		G1/500
BVH	(80°-90°)	51.9	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-G1

Type I Short



REPORT NUMBER: P637574

CATALOG NUMBER: IFLD-L-SA8A-727-U-55-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	37488.7	37488.7	37488.7	37488.7	37488.7	37488.7	37488.7	37488.7	37488.7	37488.7
2.5°	36675.7	36799.8	36551.6	36716.0	36843.3	37147.4	37172.2	37277.7	37314.9	37591.1
5°	35980.6	36076.8	35875.1	36095.4	36275.4	36545.4	36753.3	37045.0	37206.3	37532.2
7.5°	35257.6	35279.3	35239.0	35471.7	35741.7	36114.0	36371.6	36753.3	36852.6	37318.0
10°	34382.5	34224.2	34301.8	34643.2	35046.6	35617.5	35794.4	36176.1	36353.0	36827.8
12.5°	32986.1	33066.8	32970.6	33405.0	33740.2	34388.7	34574.9	34959.7	35297.9	35716.8
15°	31018.7	30972.2	31167.7	31505.9	31869.0	32384.1	32685.1	33104.0	33361.6	33796.0
17.5°	26596.8	26755.0	27561.9	28409.0	29153.8	29755.8	30115.7	30463.3	30649.5	31121.1
20°	22969.2	22770.6	22879.3	23357.1	25476.6	26398.2	26776.8	26860.6	26938.1	27310.5
22.5°	18913.5	18848.3	19211.4	19748.2	20250.9	22376.6	22891.7	22696.2	22857.5	23208.2
25°	14044.7	14373.6	14696.3	15726.6	16378.2	17420.9	18398.4	18485.2	18544.2	18764.5
27.5°	11431.9	11317.1	11310.8	11599.4	12561.4	13430.3	14261.9	14454.3	14420.2	14631.2
30°	8986.6	8949.4	8819.0	8887.3	8791.1	9563.8	9954.8	10746.1	10702.6	10708.8
32.5°	6482.4	6342.8	6290.0	6392.4	6293.1	6221.7	6563.1	7456.8	7441.3	7503.3
35°	3922.3	3903.7	3947.2	4037.2	3838.6	3832.3	3903.7	4744.7	4847.1	4946.4
37.5°	2166.0	2147.4	2181.5	2513.5	2448.4	2389.4	2408.0	2851.8	3146.6	3221.0
40°	1427.4	1424.3	1449.2	1508.1	1619.8	1598.1	1607.4	1806.0	2085.3	2150.5
42.5°	955.8	958.9	974.4	1042.6	1058.2	1169.9	1151.3	1197.8	1458.5	1514.3
45°	763.4	760.3	769.6	738.5	757.2	872.0	884.4	887.5	1110.9	1145.0
47.5°	602.0	602.0	611.3	571.0	561.7	633.0	698.2	707.5	887.5	934.0
50°	422.0	422.0	468.6	450.0	471.7	493.4	564.8	574.1	726.1	775.8
52.5°	310.3	316.5	322.7	325.8	397.2	394.1	456.2	499.6	549.3	636.1
55°	235.8	242.0	226.5	242.0	294.8	328.9	341.3	403.4	437.5	533.7
57.5°	155.2	170.7	158.3	186.2	198.6	254.5	273.1	332.0	353.8	437.5
60°	21.7	24.8	40.3	130.3	139.6	167.6	211.0	263.8	285.5	356.9
62.5°	3.1	3.1	9.3	21.7	93.1	111.7	158.3	183.1	211.0	266.9
65°	0.0	0.0	3.1	6.2	18.6	65.2	80.7	99.3	145.8	192.4
67.5°	0.0	0.0	3.1	6.2	9.3	21.7	34.1	65.2	83.8	133.4
70°	0.0	0.0	3.1	6.2	9.3	12.4	18.6	24.8	49.6	77.6
72.5°	0.0	0.0	3.1	6.2	9.3	12.4	15.5	18.6	21.7	49.6
75°	0.0	0.0	3.1	6.2	9.3	15.5	18.6	18.6	18.6	21.7
77.5°	0.0	0.0	3.1	6.2	12.4	18.6	21.7	18.6	15.5	15.5
80°	0.0	0.0	3.1	9.3	15.5	21.7	24.8	18.6	12.4	9.3
82.5°	0.0	0.0	3.1	9.3	15.5	21.7	24.8	21.7	12.4	9.3
85°	0.0	0.0	3.1	9.3	12.4	15.5	24.8	21.7	12.4	6.2
87.5°	0.0	0.0	0.0	3.1	3.1	6.2	12.4	9.3	6.2	3.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P637574

CATALOG NUMBER: IFLD-L-SA8A-727-U-55-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
37488.7	0°	37488.7	37488.7	37488.7	37488.7	37488.7	37488.7	37488.7	37488.7	37488.7
37584.9	2.5°	37864.2	38003.8	38249.0	38317.2	38528.3	38286.2	38152.8	38165.2	37876.6
37491.8	5°	37864.2	38183.8	38612.0	38816.8	38972.0	38959.6	38925.5	38838.6	38627.6
37305.6	7.5°	37764.9	38286.2	38875.8	39148.9	39335.1	39319.6	39397.1	39257.5	38999.9
36973.6	10°	37445.3	37898.3	38624.5	38847.9	39148.9	39155.1	39058.9	39086.8	38627.6
35760.3	12.5°	36439.9	36793.6	37429.8	37684.2	38050.4	38109.3	38003.8	37963.5	37529.1
33771.2	15°	34494.2	34699.0	35338.3	35592.7	35955.8	35906.1	36011.6	35968.2	35586.5
31083.9	17.5°	31648.7	31713.8	32384.1	32598.2	32939.6	33073.0	32914.7	33116.4	32787.5
27375.7	20°	27568.1	27918.7	28672.8	29001.7	29200.3	29439.2	29231.3	29457.9	29073.1
22876.2	22.5°	23428.5	23636.4	24319.1	24793.9	25163.1	25209.7	25132.1	25290.4	24772.2
18910.4	25°	18907.3	19251.7	19791.7	20412.3	20775.3	20998.8	20797.1	20899.5	20815.7
14665.3	27.5°	14913.6	15220.8	15627.3	16089.6	16635.8	16927.5	16766.1	16939.9	16530.3
10935.4	30°	10944.7	11099.8	11559.1	12049.4	12648.3	13002.0	13017.6	13194.4	12952.4
7661.6	32.5°	7717.4	7854.0	8136.4	8462.2	9033.2	9427.3	9365.2	9390.0	9241.1
4992.9	35°	5017.7	5200.8	5402.5	5557.7	5902.1	6336.6	6302.4	6271.4	6169.0
3283.1	37.5°	3354.5	3425.8	3537.5	3677.2	3900.6	4173.7	4263.7	4152.0	4108.5
2215.6	40°	2268.4	2392.5	2467.0	2572.5	2678.0	2907.6	2969.7	2948.0	2904.5
1551.6	42.5°	1610.5	1706.7	1799.8	1902.2	1958.1	2100.8	2221.8	2187.7	2169.1
1179.2	45°	1222.6	1309.5	1418.1	1495.7	1551.6	1635.3	1750.2	1762.6	1734.6
946.4	47.5°	980.6	1058.2	1145.0	1241.2	1306.4	1359.2	1458.5	1495.7	1477.1
797.5	50°	831.6	890.6	974.4	1070.6	1141.9	1188.5	1275.4	1315.7	1303.3
667.2	52.5°	707.5	778.9	856.5	937.1	1024.0	1070.6	1151.3	1210.2	1200.9
552.4	55°	586.5	679.6	760.3	840.9	940.2	986.8	1058.2	1135.7	1120.2
468.6	57.5°	512.0	589.6	673.4	751.0	856.5	918.5	983.7	1064.4	1061.3
384.8	60°	428.2	505.8	598.9	664.1	775.8	862.7	921.6	1005.4	1011.6
291.7	62.5°	341.3	437.5	508.9	598.9	701.3	803.7	859.6	943.3	974.4
223.4	65°	254.5	360.0	440.6	530.6	626.8	741.6	791.3	875.1	906.1
161.4	67.5°	189.3	270.0	372.4	450.0	558.6	657.9	716.8	794.4	816.1
96.2	70°	142.7	207.9	310.3	378.6	490.3	571.0	629.9	688.9	716.8
65.2	72.5°	83.8	155.2	245.1	325.8	422.0	490.3	533.7	580.3	598.9
31.0	75°	59.0	117.9	192.4	270.0	341.3	397.2	437.5	477.9	496.5
15.5	77.5°	31.0	86.9	152.1	217.2	266.9	313.4	353.8	384.8	397.2
12.4	80°	18.6	62.1	124.1	170.7	204.8	245.1	285.5	307.2	304.1
9.3	82.5°	12.4	49.6	90.0	124.1	148.9	180.0	207.9	223.4	223.4
6.2	85°	9.3	34.1	62.1	96.2	99.3	124.1	130.3	145.8	148.9
6.2	87.5°	6.2	21.7	34.1	55.9	52.8	65.2	68.3	77.6	83.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
37488.7
37643.9
38695.8
39058.9
38494.1
37429.8
35707.5
32706.8
29042.0
24700.8
20762.9
16635.8
12995.8
9324.9
6079.0
4099.2
2910.7
2153.6
1731.5
1467.8
1300.2
1194.7
1120.2
1058.2
1011.6
971.3
903.0
816.1
710.6
592.7
490.3
394.1
301.0
220.3
145.8
80.7
0.0

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