

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: P637601

Luminaire Tested: **IFLD-L-SA7D-730-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637601
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-730-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41723.9 lumens
Efficiency: N/A
Efficacy: 98.7 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



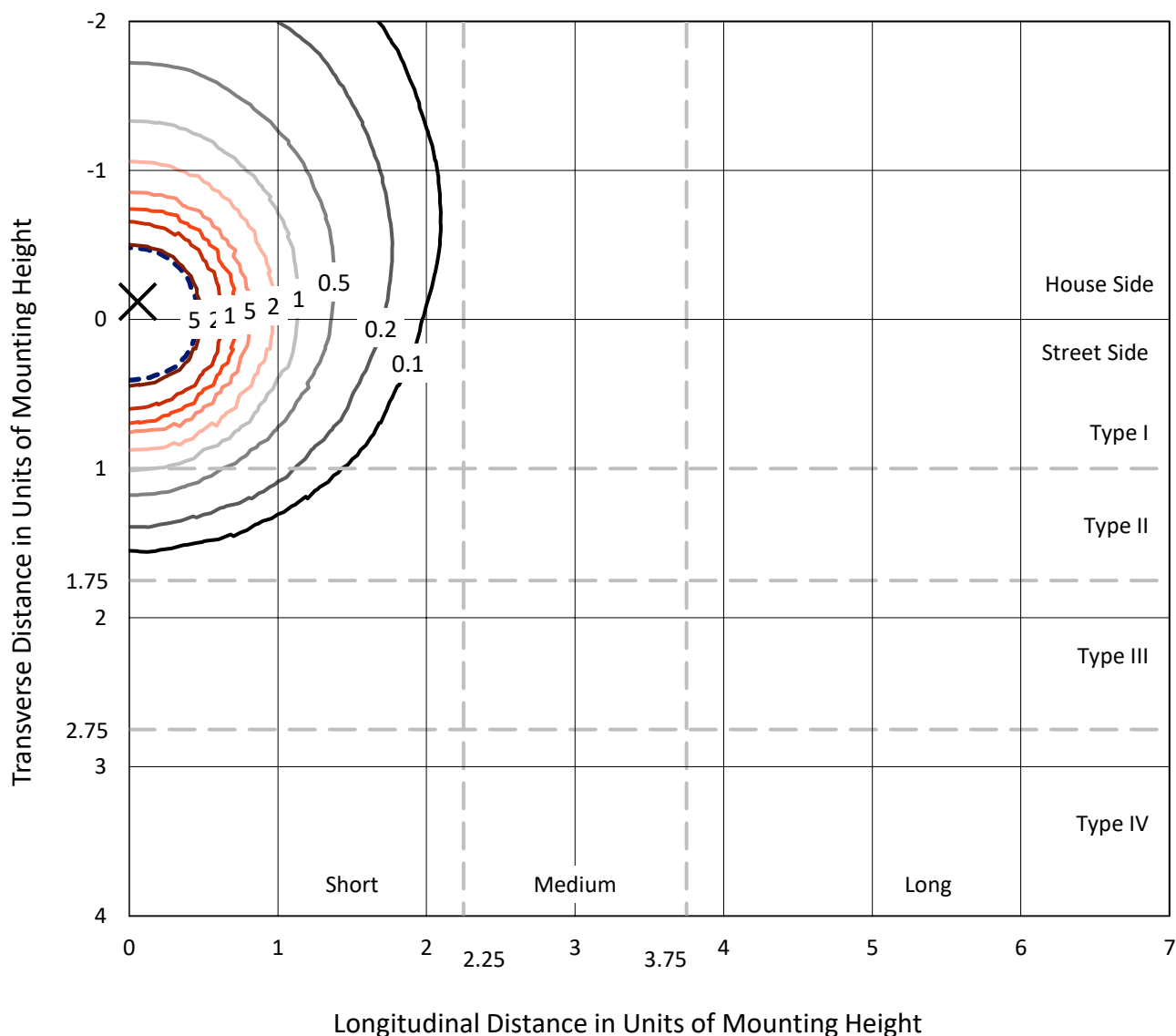
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



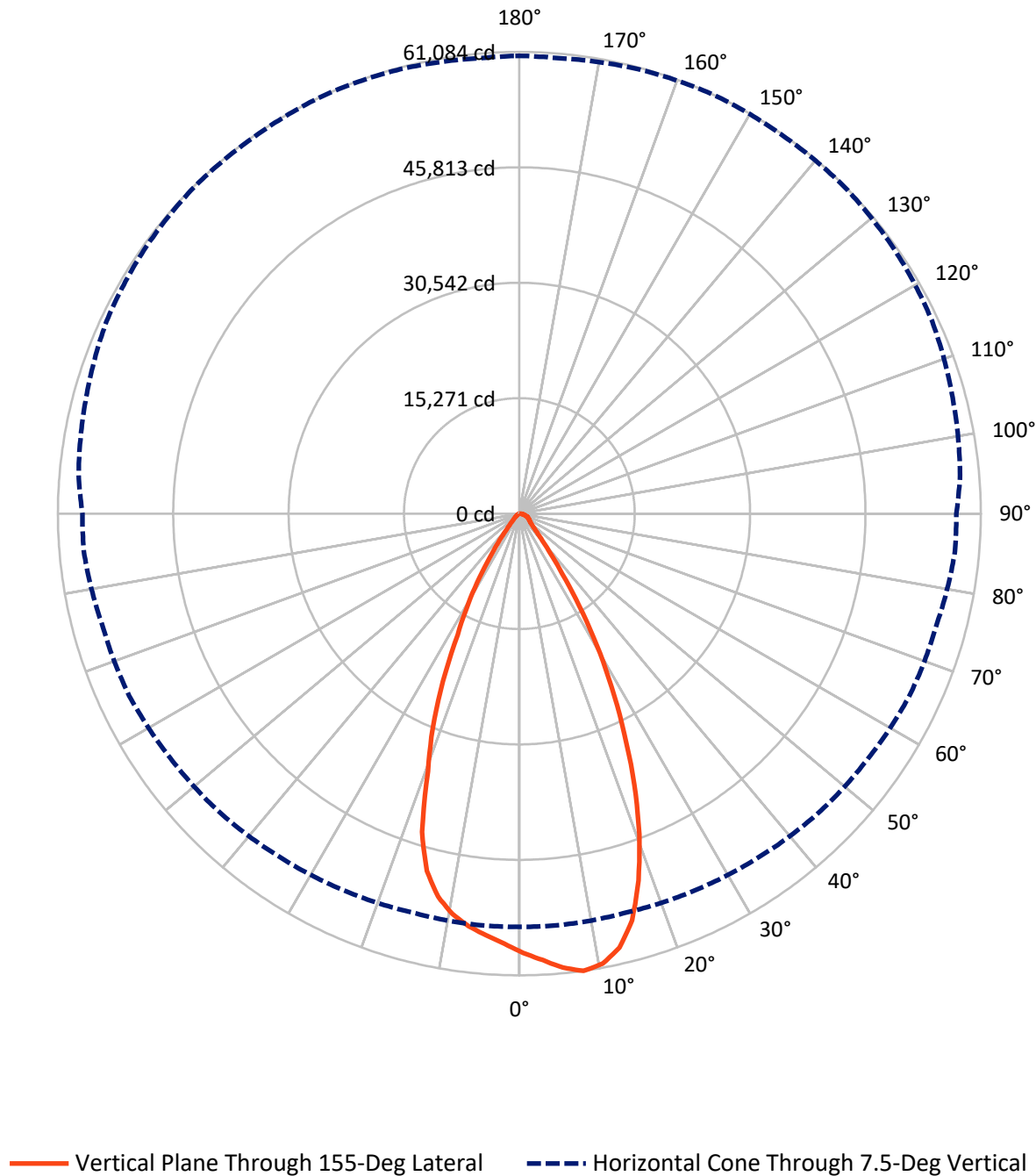
Based on 20 foot mounting height. Maximum calculated value = 147.7 fc

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	23033.1	0.0	23033.1
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	18690.8	0.0	18690.8
	% Fixture	44.8	0.0	44.8
Total	Lumens	41723.9	0.0	41723.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5542.6	13.3
10°-20°	14371.9	34.4
20°-30°	13168.6	31.6
30°-40°	5320.1	12.8
40°-50°	1560.7	3.7
50°-60°	872.6	2.1
60°-70°	530.0	1.3
70°-80°	269.3	0.6
80°-90°	88.1	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°	41723.9	100.0
0°-180°	41723.9	100.0

Coefficient of Utilization



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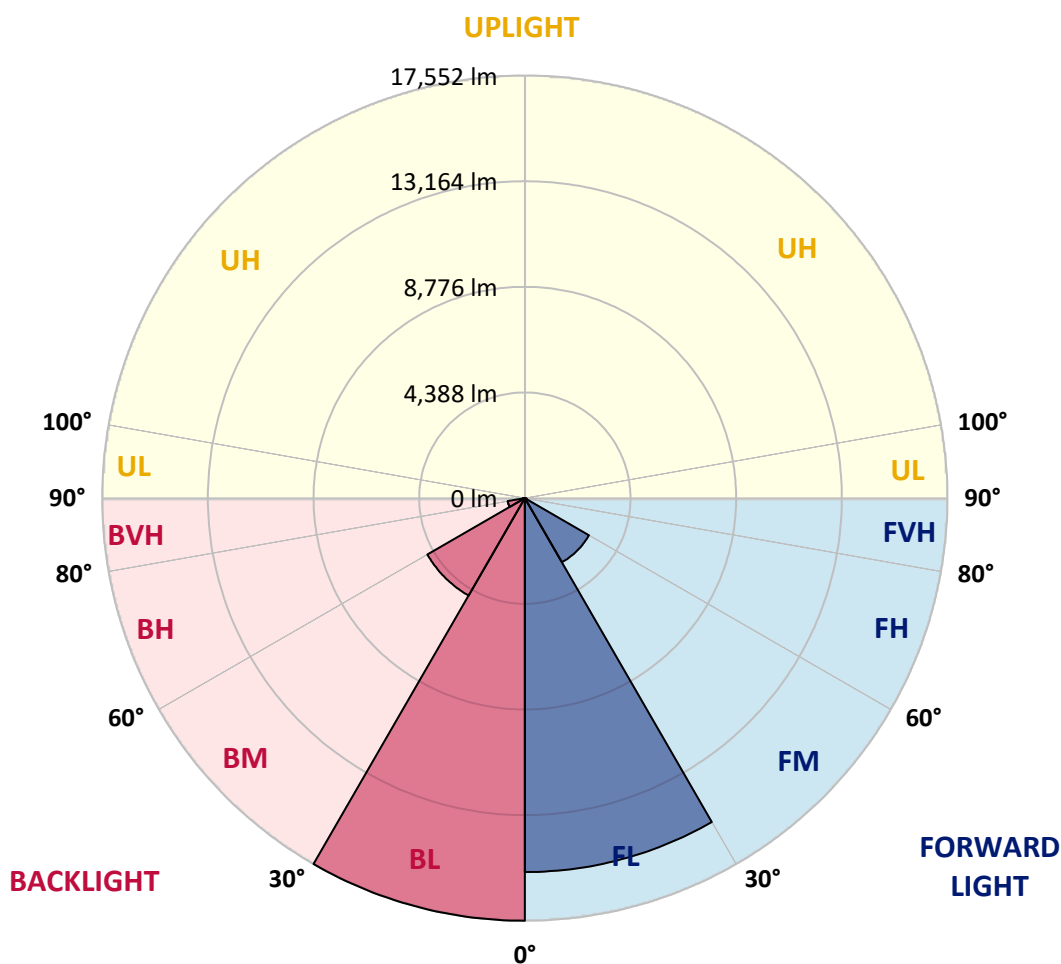
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	15530.7	37.2			
FM	(30°-60°)	3077.9	7.4			
FH	(60°-80°)	74.6	0.2			G0/660
FVH	(80°-90°)	7.6	0.0			G0/10
BL	(0°-30°)	17552.4	42.1	B5		
BM	(30°-60°)	4675.5	11.2	B3/5000		
BH	(60°-80°)	724.7	1.7	B2/1000		G2/1000
BVH	(80°-90°)	80.4	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°	58124.6	58124.6	58124.6	58124.6	58124.6	58124.6	58124.6	58124.6	58124.6	58124.6
2.5°	56864.1	57056.5	56671.6	56926.6	57123.9	57595.4	57633.9	57797.4	57855.2	58283.4
5°	55786.3	55935.5	55622.8	55964.4	56243.4	56662.0	56984.3	57436.6	57686.8	58192.0
7.5°	54665.3	54699.0	54636.4	54997.3	55415.9	55993.2	56392.6	56984.3	57138.3	57860.0
10°	53308.5	53063.2	53183.5	53712.7	54338.2	55223.4	55497.7	56089.4	56363.7	57099.8
12.5°	51143.5	51268.6	51119.4	51793.0	52312.6	53318.2	53606.8	54203.4	54727.9	55377.4
15°	48093.2	48021.0	48324.1	48848.5	49411.4	50210.1	50676.8	51326.3	51725.6	52399.2
17.5°	41237.1	41482.5	42733.4	44046.9	45201.6	46135.0	46693.1	47231.9	47520.6	48251.9
20°	35612.8	35304.9	35473.3	36214.2	39500.3	40929.2	41516.2	41646.1	41766.4	42343.7
22.5°	29324.5	29223.5	29786.4	30618.7	31398.2	34693.9	35492.5	35189.4	35439.6	35983.3
25°	21775.7	22285.7	22786.0	24383.4	25393.7	27010.3	28525.8	28660.6	28752.0	29093.6
27.5°	17724.6	17546.6	17537.0	17984.4	19475.9	20823.0	22112.5	22410.8	22357.8	22685.0
30°	13933.4	13875.6	13673.5	13779.4	13630.2	14828.2	15434.5	16661.3	16594.0	16603.6
32.5°	10050.7	9834.2	9752.4	9911.2	9757.2	9646.5	10175.8	11561.4	11537.4	11633.6
35°	6081.4	6052.5	6119.9	6259.4	5951.5	5941.9	6052.5	7356.4	7515.2	7669.1
37.5°	3358.2	3329.4	3382.3	3897.1	3796.1	3704.7	3733.5	4421.5	4878.6	4994.1
40°	2213.2	2208.4	2246.8	2338.3	2511.5	2477.8	2492.2	2800.1	3233.2	3334.2
42.5°	1481.9	1486.7	1510.7	1616.6	1640.6	1813.8	1785.0	1857.1	2261.3	2347.9
45°	1183.6	1178.8	1193.2	1145.1	1173.9	1352.0	1371.2	1376.0	1722.4	1775.3
47.5°	933.4	933.4	947.8	885.3	870.8	981.5	1082.5	1097.0	1376.0	1448.2
50°	654.3	654.3	726.5	697.6	731.3	765.0	875.6	890.1	1125.8	1202.8
52.5°	481.1	490.7	500.4	505.2	615.8	611.0	707.3	774.6	851.6	986.3
55°	365.7	375.3	351.2	375.3	457.1	510.0	529.2	625.5	678.4	827.5
57.5°	240.6	264.6	245.4	288.7	307.9	394.5	423.4	514.8	548.5	678.4
60°	33.7	38.5	62.5	202.1	216.5	259.8	327.2	409.0	442.6	553.3
62.5°	4.8	4.8	14.4	33.7	144.3	173.2	245.4	283.9	327.2	413.8
65°	0.0	0.0	4.8	9.6	28.9	101.0	125.1	154.0	226.1	298.3
67.5°	0.0	0.0	4.8	9.6	14.4	33.7	52.9	101.0	129.9	206.9
70°	0.0	0.0	4.8	9.6	14.4	19.2	28.9	38.5	77.0	120.3
72.5°	0.0	0.0	4.8	9.6	14.4	19.2	24.1	28.9	33.7	77.0
75°	0.0	0.0	4.8	9.6	14.4	24.1	28.9	28.9	28.9	33.7
77.5°	0.0	0.0	4.8	9.6	19.2	28.9	33.7	28.9	24.1	24.1
80°	0.0	0.0	4.8	14.4	24.1	33.7	38.5	28.9	19.2	14.4
82.5°	0.0	0.0	4.8	14.4	24.1	33.7	38.5	33.7	19.2	14.4
85°	0.0	0.0	4.8	14.4	19.2	24.1	38.5	33.7	19.2	9.6
87.5°	0.0	0.0	0.0	4.8	4.8	9.6	19.2	14.4	9.6	4.8
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°
58124.6	0°	58124.6	58124.6	58124.6	58124.6	58124.6	58124.6	58124.6	58124.6	58124.6
58273.7	2.5°	58706.8	58923.3	59303.4	59409.2	59736.4	59361.1	59154.2	59173.4	58726.0
58129.4	5°	58706.8	59202.3	59866.3	60183.8	60424.4	60405.1	60352.2	60217.5	59890.3
57840.7	7.5°	58552.8	59361.1	60275.2	60698.6	60987.3	60963.2	61083.5	60867.0	60467.7
57325.9	10°	58057.2	58759.7	59885.5	60231.9	60698.6	60708.2	60559.1	60602.4	59890.3
55444.7	12.5°	56498.4	57046.9	58033.2	58427.7	58995.4	59086.8	58923.3	58860.7	58187.1
52360.7	15°	53481.8	53799.3	54790.4	55184.9	55747.8	55670.9	55834.4	55767.1	55175.3
48194.2	17.5°	49069.8	49170.9	50210.1	50542.1	51071.3	51278.2	51032.8	51345.6	50835.6
42444.8	20°	42743.1	43286.7	44455.9	44965.9	45273.8	45644.2	45321.9	45673.1	45076.5
35468.5	22.5°	36324.9	36647.2	37705.7	38441.8	39014.4	39086.5	38966.2	39211.6	38408.1
29319.7	25°	29314.9	29848.9	30686.1	31648.3	32211.3	32557.7	32244.9	32403.7	32273.8
22737.9	27.5°	23122.8	23599.1	24229.4	24946.3	25793.1	26245.3	25995.1	26264.6	25629.5
16954.8	30°	16969.2	17209.8	17921.9	18682.0	19610.6	20159.1	20183.2	20457.4	20082.1
11879.0	32.5°	11965.6	12177.3	12615.1	13120.3	14005.5	14616.5	14520.3	14558.8	14327.9
7741.3	35°	7779.8	8063.6	8376.4	8616.9	9151.0	9824.6	9771.6	9723.5	9564.7
5090.3	37.5°	5201.0	5311.6	5484.8	5701.3	6047.7	6471.1	6610.6	6437.4	6370.1
3435.2	40°	3517.0	3709.5	3824.9	3988.5	4152.1	4508.1	4604.4	4570.7	4503.3
2405.6	42.5°	2497.0	2646.2	2790.5	2949.3	3035.9	3257.2	3444.8	3391.9	3363.1
1828.3	45°	1895.6	2030.3	2198.7	2319.0	2405.6	2535.5	2713.5	2732.8	2689.5
1467.4	47.5°	1520.4	1640.6	1775.3	1924.5	2025.5	2107.3	2261.3	2319.0	2290.2
1236.5	50°	1289.4	1380.8	1510.7	1659.9	1770.5	1842.7	1977.4	2040.0	2020.7
1034.4	52.5°	1097.0	1207.6	1327.9	1453.0	1587.7	1659.9	1785.0	1876.4	1862.0
856.4	55°	909.3	1053.7	1178.8	1303.8	1457.8	1530.0	1640.6	1760.9	1736.9
726.5	57.5°	793.9	914.1	1044.0	1164.3	1327.9	1424.1	1525.2	1650.3	1645.4
596.6	60°	664.0	784.2	928.6	1029.6	1202.8	1337.5	1428.9	1558.8	1568.5
452.3	62.5°	529.2	678.4	789.0	928.6	1087.3	1246.1	1332.7	1462.6	1510.7
346.4	65°	394.5	558.1	683.2	822.7	971.9	1149.9	1226.9	1356.8	1404.9
250.2	67.5°	293.5	418.6	577.3	697.6	866.0	1020.0	1111.4	1231.7	1265.4
149.1	70°	221.3	322.4	481.1	587.0	760.2	885.3	976.7	1068.1	1111.4
101.0	72.5°	129.9	240.6	380.1	505.2	654.3	760.2	827.5	899.7	928.6
48.1	75°	91.4	182.8	298.3	418.6	529.2	615.8	678.4	740.9	769.8
24.1	77.5°	48.1	134.7	235.8	336.8	413.8	485.9	548.5	596.6	615.8
19.2	80°	28.9	96.2	192.4	264.6	317.5	380.1	442.6	476.3	471.5
14.4	82.5°	19.2	77.0	139.5	192.4	230.9	279.1	322.4	346.4	346.4
9.6	85°	14.4	52.9	96.2	149.1	154.0	192.4	202.1	226.1	230.9
9.6	87.5°	9.6	33.7	52.9	86.6	81.8	101.0	105.8	120.3	129.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
58124.6
58365.2
59996.2
60559.1
59683.4
58033.2
55362.9
50710.5
45028.4
38297.5
32192.0
25793.1
20149.5
14457.8
9425.2
6355.6
4512.9
3339.0
2684.7
2275.7
2015.9
1852.3
1736.9
1640.6
1568.5
1505.9
1400.1
1265.4
1101.8
918.9
760.2
611.0
466.7
341.6
226.1
125.1
0.0

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