

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: P637596

Luminaire Tested: **IFLD-M-SA4D-730-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637596
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-730-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (64) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26759.2 lumens
Efficiency: N/A
Efficacy: 107.2 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): 249.7
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



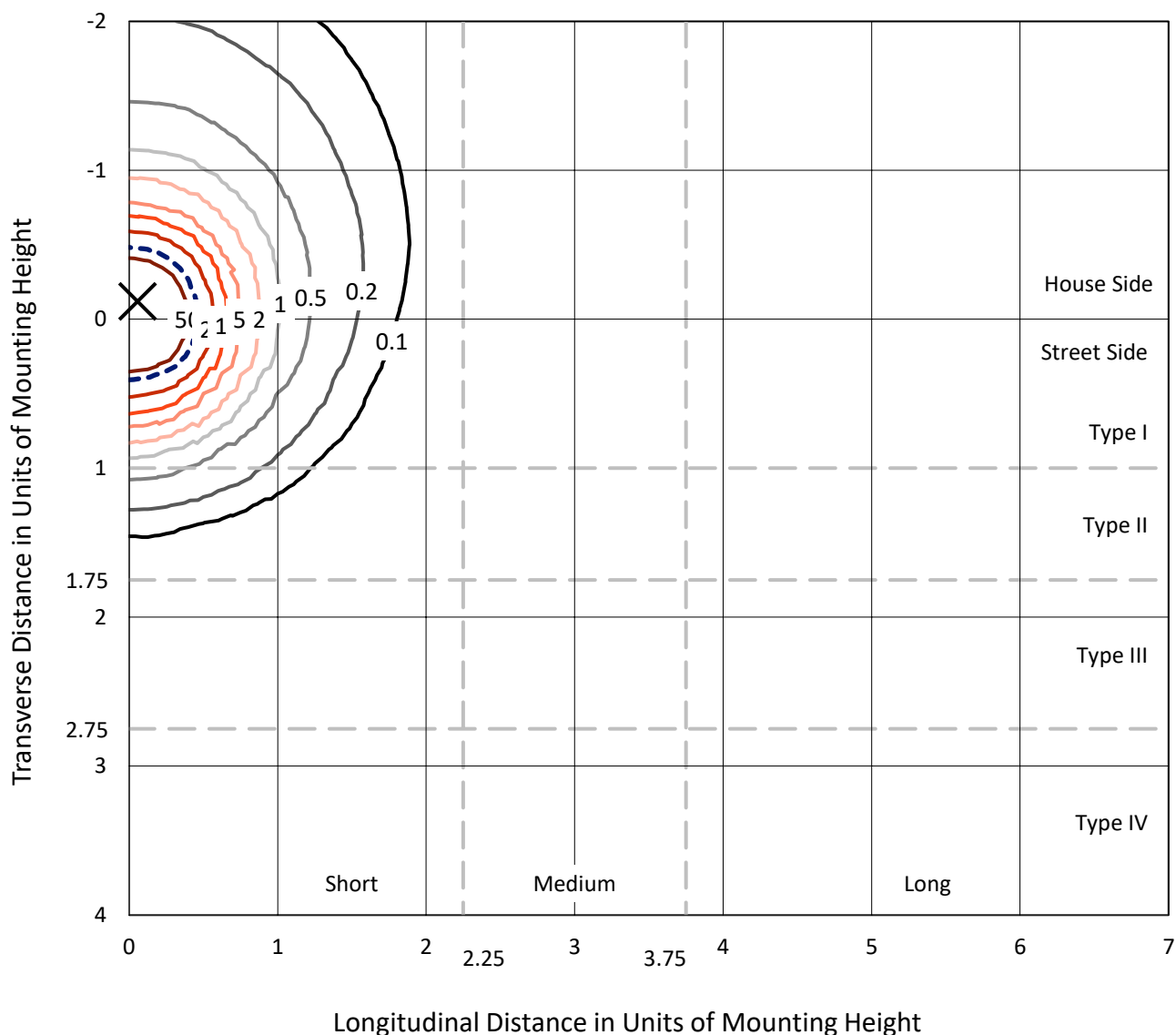
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

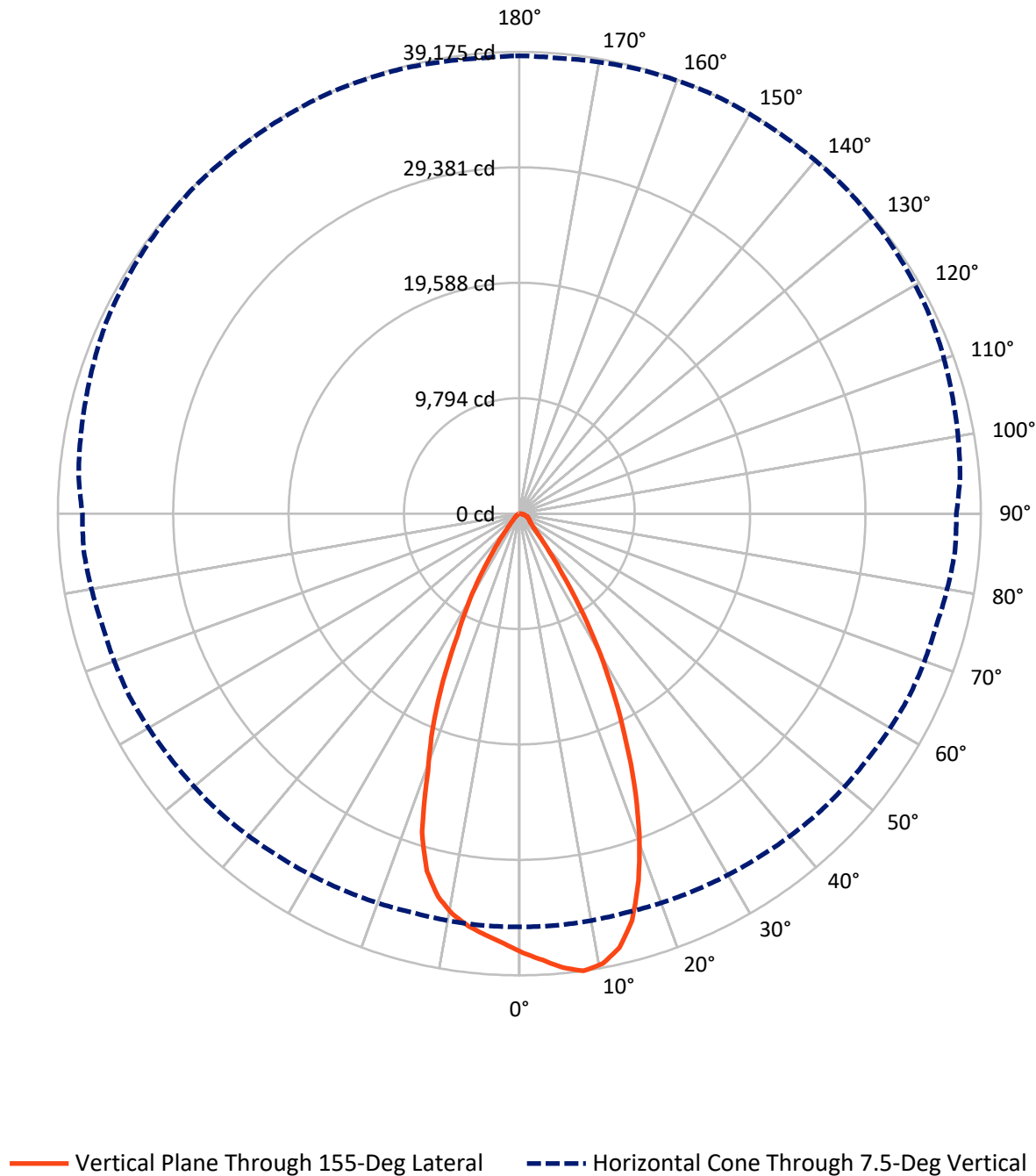


Based on 20 foot mounting height. Maximum calculated value = 94.7 fc

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	14772.0	0.0	14772.0
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	11987.1	0.0	11987.1
	% Fixture	44.8	0.0	44.8
Total	Lumens	26759.2	0.0	26759.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3554.7	13.3
10°-20°	9217.2	34.4
20°-30°	8445.6	31.6
30°-40°	3412.0	12.8
40°-50°	1000.9	3.7
50°-60°	559.6	2.1
60°-70°	339.9	1.3
70°-80°	172.7	0.6
80°-90°	56.5	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°	26759.2	100.0
0°-180°	26759.2	100.0

Coefficient of Utilization



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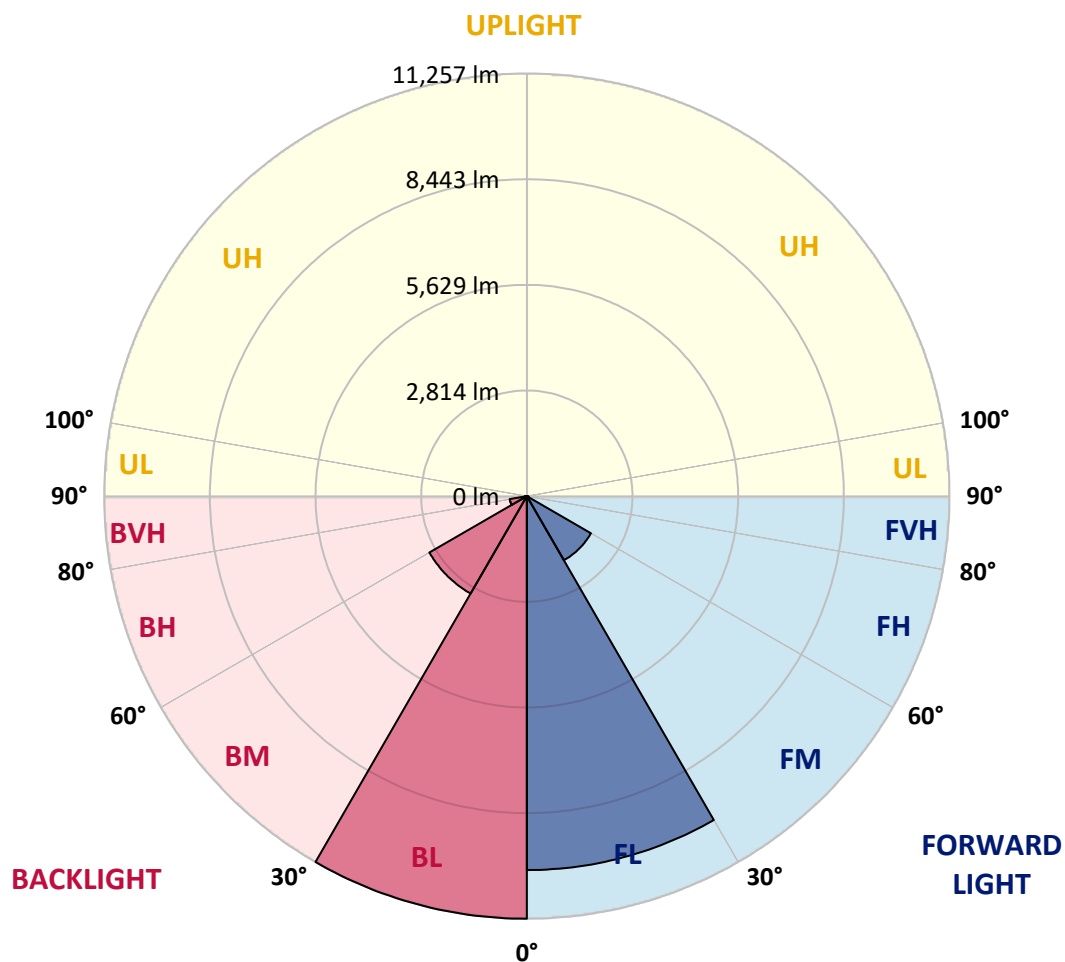
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	9960.4	37.2			
FM	(30°-60°)	1974.0	7.4			
FH	(60°-80°)	47.8	0.2			G0/660
FVH	(80°-90°)	4.9	0.0			G0/10
BL	(0°-30°)	11257.0	42.1	B5		
BM	(30°-60°)	2998.6	11.2	B3/5000		
BH	(60°-80°)	464.8	1.7	B1/500		G1/500
BVH	(80°-90°)	51.6	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°	37277.6	37277.6	37277.6	37277.6	37277.6	37277.6	37277.6	37277.6	37277.6	37277.6
2.5°	36469.1	36592.6	36345.7	36509.3	36635.8	36938.2	36962.8	37067.8	37104.8	37379.4
5°	35778.0	35873.6	35673.0	35892.1	36071.1	36339.5	36546.3	36836.3	36996.8	37320.8
7.5°	35059.0	35080.6	35040.5	35271.9	35540.4	35910.6	36166.8	36546.3	36645.0	37107.9
10°	34188.9	34031.5	34108.6	34448.1	34849.2	35416.9	35592.8	35972.4	36148.2	36620.3
12.5°	32800.3	32880.5	32784.9	33216.9	33550.1	34195.0	34380.2	34762.8	35099.1	35515.7
15°	30844.0	30797.7	30992.1	31328.5	31689.5	32201.7	32501.0	32917.6	33173.7	33605.7
17.5°	26447.0	26604.4	27406.6	28249.0	28989.6	29588.2	29946.1	30291.7	30476.8	30945.9
20°	22839.9	22642.4	22750.4	23225.6	25333.1	26249.5	26626.0	26709.3	26786.4	27156.7
22.5°	18807.0	18742.2	19103.2	19637.0	20136.9	22250.5	22762.7	22568.3	22728.8	23077.5
25°	13965.6	14292.7	14613.6	15638.0	16286.0	17322.8	18294.7	18381.1	18439.8	18658.8
27.5°	11367.5	11253.3	11247.1	11534.1	12490.7	13354.6	14181.6	14372.9	14339.0	14548.8
30°	8936.0	8899.0	8769.4	8837.3	8741.6	9509.9	9898.7	10685.6	10642.4	10648.5
32.5°	6445.9	6307.0	6254.6	6356.4	6257.7	6186.7	6526.1	7414.8	7399.4	7461.1
35°	3900.2	3881.7	3924.9	4014.4	3816.9	3810.8	3881.7	4717.9	4819.8	4918.5
37.5°	2153.8	2135.3	2169.2	2499.4	2434.6	2375.9	2394.5	2835.7	3128.8	3202.9
40°	1419.4	1416.3	1441.0	1499.6	1610.7	1589.1	1598.4	1795.8	2073.5	2138.3
42.5°	950.4	953.5	968.9	1036.8	1052.2	1163.3	1144.8	1191.1	1450.2	1505.8
45°	759.1	756.0	765.2	734.4	752.9	867.1	879.4	882.5	1104.7	1138.6
47.5°	598.6	598.6	607.9	567.8	558.5	629.5	694.3	703.5	882.5	928.8
50°	419.6	419.6	465.9	447.4	469.0	490.6	561.6	570.8	722.0	771.4
52.5°	308.6	314.7	320.9	324.0	395.0	391.9	453.6	496.8	546.2	632.6
55°	234.5	240.7	225.3	240.7	293.1	327.1	339.4	401.1	435.1	530.7
57.5°	154.3	169.7	157.4	185.1	197.5	253.0	271.5	330.2	351.8	435.1
60°	21.6	24.7	40.1	129.6	138.9	166.6	209.8	262.3	283.9	354.8
62.5°	3.1	3.1	9.3	21.6	92.6	111.1	157.4	182.1	209.8	265.4
65°	0.0	0.0	3.1	6.2	18.5	64.8	80.2	98.7	145.0	191.3
67.5°	0.0	0.0	3.1	6.2	9.3	21.6	33.9	64.8	83.3	132.7
70°	0.0	0.0	3.1	6.2	9.3	12.3	18.5	24.7	49.4	77.1
72.5°	0.0	0.0	3.1	6.2	9.3	12.3	15.4	18.5	21.6	49.4
75°	0.0	0.0	3.1	6.2	9.3	15.4	18.5	18.5	18.5	21.6
77.5°	0.0	0.0	3.1	6.2	12.3	18.5	21.6	18.5	15.4	15.4
80°	0.0	0.0	3.1	9.3	15.4	21.6	24.7	18.5	12.3	9.3
82.5°	0.0	0.0	3.1	9.3	15.4	21.6	24.7	21.6	12.3	9.3
85°	0.0	0.0	3.1	9.3	12.3	15.4	24.7	21.6	12.3	6.2
87.5°	0.0	0.0	0.0	3.1	3.1	6.2	12.3	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

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CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
37277.6	0°	37277.6	37277.6	37277.6	37277.6	37277.6	37277.6	37277.6	37277.6	37277.6
37373.2	2.5°	37650.9	37789.8	38033.6	38101.4	38311.3	38070.6	37937.9	37950.2	37663.3
37280.7	5°	37650.9	37968.8	38394.6	38598.2	38752.5	38740.2	38706.2	38619.8	38410.0
37095.5	7.5°	37552.2	38070.6	38656.9	38928.4	39113.5	39098.1	39175.2	39036.4	38780.3
36765.4	10°	37234.4	37684.9	38406.9	38629.1	38928.4	38934.6	38838.9	38866.7	38410.0
35558.9	12.5°	36234.6	36586.4	37219.0	37472.0	37836.1	37894.7	37789.8	37749.7	37317.7
33581.0	15°	34299.9	34503.6	35139.2	35392.3	35753.3	35703.9	35808.8	35765.6	35386.1
30908.8	17.5°	31470.4	31535.2	32201.7	32414.6	32754.0	32886.7	32729.4	32929.9	32602.8
27221.5	20°	27412.8	27761.5	28511.3	28838.4	29035.8	29273.4	29066.7	29292.0	28909.3
22747.3	22.5°	23296.6	23503.3	24182.1	24654.2	25021.4	25067.7	24990.6	25147.9	24632.6
18803.9	25°	18800.8	19143.3	19680.2	20297.3	20658.3	20880.5	20679.9	20781.8	20698.5
14582.7	27.5°	14829.6	15135.0	15539.3	15999.0	16542.1	16832.1	16671.7	16844.5	16437.2
10873.8	30°	10883.0	11037.3	11494.0	11981.5	12577.1	12928.8	12944.2	13120.1	12879.4
7618.4	32.5°	7674.0	7809.7	8090.5	8414.5	8982.3	9374.2	9312.5	9337.1	9189.0
4964.8	35°	4989.5	5171.5	5372.1	5526.4	5868.9	6300.9	6266.9	6236.1	6134.2
3264.6	37.5°	3335.6	3406.5	3517.6	3656.5	3878.6	4150.2	4239.7	4128.6	4085.4
2203.1	40°	2255.6	2379.0	2453.1	2558.0	2662.9	2891.2	2953.0	2931.4	2888.2
1542.8	42.5°	1601.4	1697.1	1789.7	1891.5	1947.0	2089.0	2209.3	2175.4	2156.9
1172.5	45°	1215.7	1302.1	1410.1	1487.3	1542.8	1626.1	1740.3	1752.6	1724.9
941.1	47.5°	975.1	1052.2	1138.6	1234.3	1299.1	1351.5	1450.2	1487.3	1468.8
793.0	50°	827.0	885.6	968.9	1064.5	1135.5	1181.8	1268.2	1308.3	1296.0
663.4	52.5°	703.5	774.5	851.6	931.9	1018.3	1064.5	1144.8	1203.4	1194.1
549.2	55°	583.2	675.8	756.0	836.2	934.9	981.2	1052.2	1129.3	1113.9
465.9	57.5°	509.1	586.3	669.6	746.7	851.6	913.3	978.1	1058.4	1055.3
382.6	60°	425.8	503.0	595.5	660.3	771.4	857.8	916.4	999.7	1005.9
290.0	62.5°	339.4	435.1	506.0	595.5	697.4	799.2	854.7	938.0	968.9
222.2	65°	253.0	357.9	438.2	527.6	623.3	737.5	786.8	870.1	901.0
160.5	67.5°	188.2	268.5	370.3	447.4	555.4	654.2	712.8	789.9	811.5
95.7	70°	141.9	206.7	308.6	376.4	487.5	567.8	626.4	685.0	712.8
64.8	72.5°	83.3	154.3	243.8	324.0	419.6	487.5	530.7	577.0	595.5
30.9	75°	58.6	117.3	191.3	268.5	339.4	395.0	435.1	475.2	493.7
15.4	77.5°	30.9	86.4	151.2	216.0	265.4	311.6	351.8	382.6	395.0
12.3	80°	18.5	61.7	123.4	169.7	203.7	243.8	283.9	305.5	302.4
9.3	82.5°	12.3	49.4	89.5	123.4	148.1	179.0	206.7	222.2	222.2
6.2	85°	9.3	33.9	61.7	95.7	98.7	123.4	129.6	145.0	148.1
6.2	87.5°	6.2	21.6	33.9	55.5	52.5	64.8	67.9	77.1	83.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
37277.6
37431.9
38477.9
38838.9
38277.3
37219.0
35506.4
32522.6
28878.5
24561.7
20646.0
16542.1
12922.6
9272.3
6044.8
4076.1
2894.3
2141.4
1721.8
1459.5
1292.9
1188.0
1113.9
1052.2
1005.9
965.8
897.9
811.5
706.6
589.4
487.5
391.9
299.3
219.1
145.0
80.2
0.0

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