

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: P637653

Luminaire Tested: **IFLD-M-SA4C-740-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637653
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-740-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26707.1 lumens
Efficiency: N/A
Efficacy: 122.5 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): 218.1
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



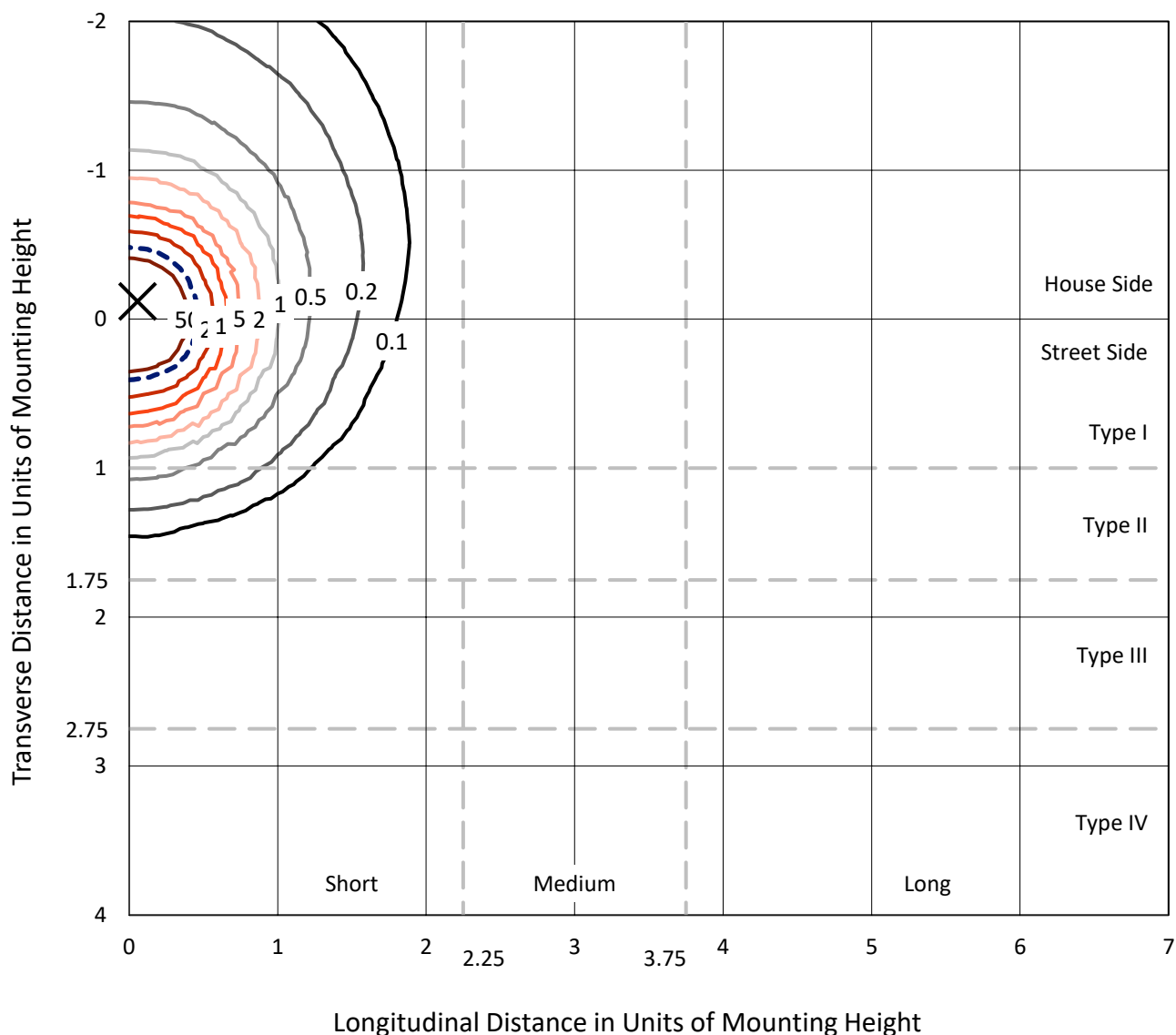
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

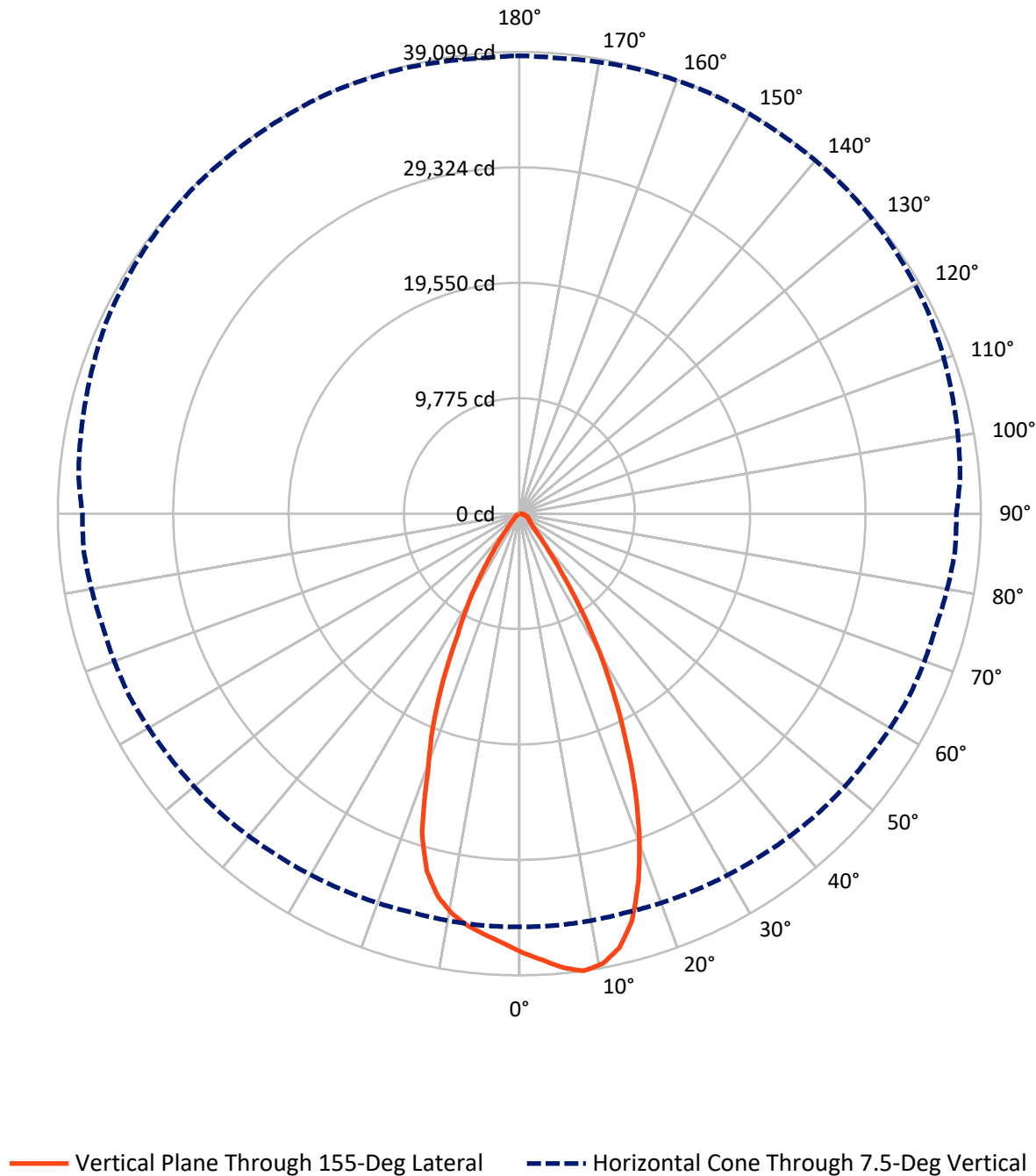


Based on 20 foot mounting height. Maximum calculated value = 94.5 fc

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	14743.3	0.0	14743.3
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	11963.8	0.0	11963.8
	% Fixture	44.8	0.0	44.8
Total	Lumens	26707.1	0.0	26707.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3547.7	13.3
10°-20°	9199.3	34.4
20°-30°	8429.1	31.6
30°-40°	3405.4	12.8
40°-50°	999.0	3.7
50°-60°	558.5	2.1
60°-70°	339.3	1.3
70°-80°	172.4	0.6
80°-90°	56.4	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°	26707.1	100.0
0°-180°	26707.1	100.0

Coefficient of Utilization



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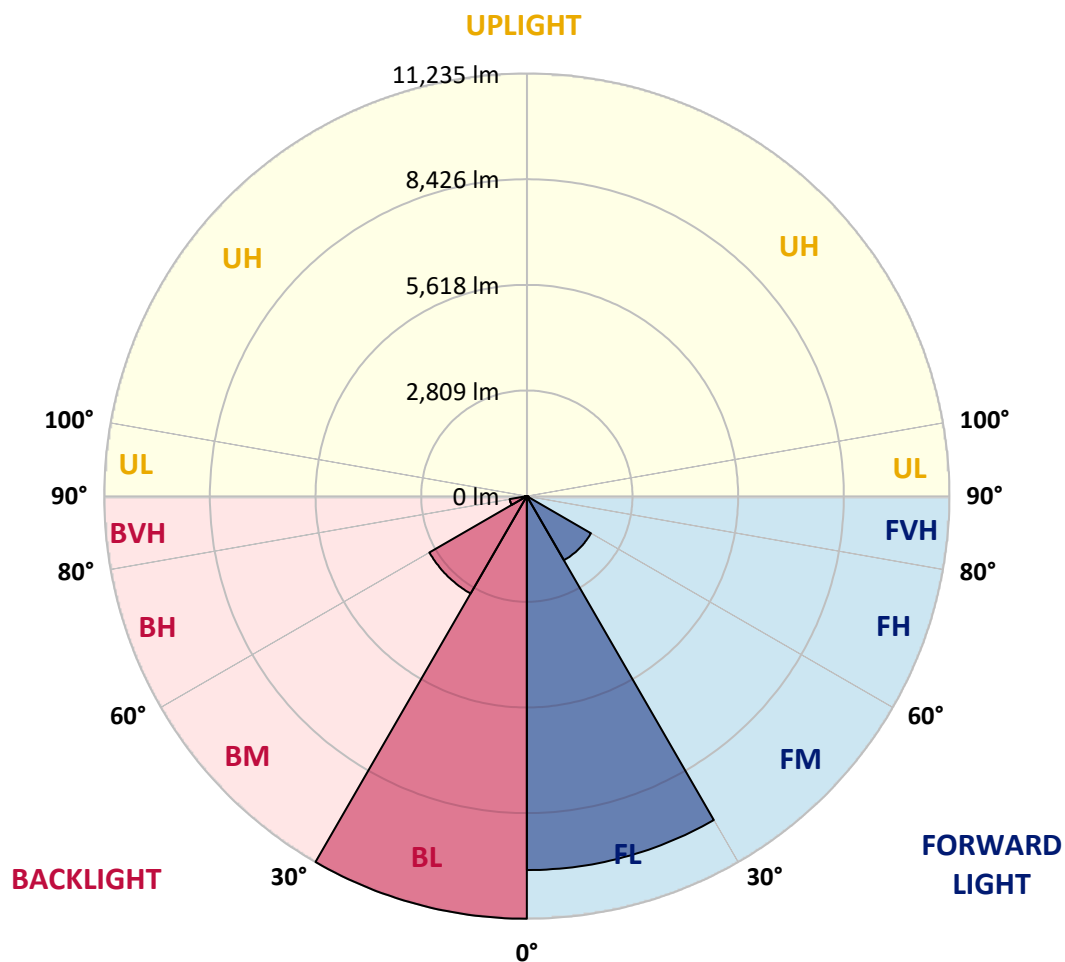
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	9941.0	37.2			
FM	(30°-60°)	1970.1	7.4			
FH	(60°-80°)	47.7	0.2			G0/660
FVH	(80°-90°)	4.9	0.0			G0/10
BL	(0°-30°)	11235.1	42.1	B5		
BM	(30°-60°)	2992.8	11.2	B3/5000		
BH	(60°-80°)	463.9	1.7	B1/500		G1/500
BVH	(80°-90°)	51.5	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°	37205.0	37205.0	37205.0	37205.0	37205.0	37205.0	37205.0	37205.0	37205.0	37205.0
2.5°	36398.1	36521.3	36275.0	36438.2	36564.4	36866.2	36890.9	36995.6	37032.5	37306.6
5°	35708.3	35803.8	35603.6	35822.2	36000.9	36268.8	36475.1	36764.6	36924.8	37248.1
7.5°	34990.7	35012.3	34972.3	35203.2	35471.2	35840.7	36096.3	36475.1	36573.7	37035.6
10°	34122.3	33965.2	34042.2	34381.0	34781.3	35348.0	35523.5	35902.3	36077.9	36549.0
12.5°	32736.5	32816.5	32721.1	33152.2	33484.8	34128.5	34313.2	34695.1	35030.8	35446.5
15°	30784.0	30737.8	30931.8	31267.5	31627.8	32139.0	32437.7	32853.5	33109.1	33540.2
17.5°	26395.5	26552.6	27353.3	28194.0	28933.1	29530.6	29887.8	30232.7	30417.5	30885.6
20°	22795.4	22598.3	22706.1	23180.4	25283.8	26198.4	26574.1	26657.3	26734.3	27103.8
22.5°	18770.3	18705.7	19066.0	19598.8	20097.7	22207.2	22718.4	22524.4	22684.6	23032.5
25°	13938.4	14264.8	14585.1	15607.6	16254.3	17289.0	18259.1	18345.4	18403.9	18622.5
27.5°	11345.4	11231.4	11225.2	11511.7	12466.3	13328.6	14154.0	14344.9	14311.0	14520.5
30°	8918.6	8881.7	8752.3	8820.1	8724.6	9491.4	9879.5	10664.8	10621.6	10627.8
32.5°	6433.3	6294.8	6242.4	6344.0	6245.5	6174.7	6513.4	7400.3	7385.0	7446.5
35°	3892.7	3874.2	3917.3	4006.6	3809.5	3803.3	3874.2	4708.8	4810.4	4908.9
37.5°	2149.6	2131.1	2165.0	2494.5	2429.8	2371.3	2389.8	2830.2	3122.7	3196.7
40°	1416.6	1413.5	1438.2	1496.7	1607.6	1586.0	1595.2	1792.3	2069.5	2134.2
42.5°	948.5	951.6	967.0	1034.8	1050.2	1161.0	1142.5	1188.7	1447.4	1502.9
45°	757.6	754.5	763.7	733.0	751.4	865.4	877.7	880.8	1102.5	1136.4
47.5°	597.4	597.4	606.7	566.7	557.4	628.2	692.9	702.2	880.8	927.0
50°	418.8	418.8	465.0	446.5	468.1	489.7	560.5	569.7	720.6	769.9
52.5°	308.0	314.1	320.3	323.4	394.2	391.1	452.7	495.8	545.1	631.3
55°	234.1	240.2	224.8	240.2	292.6	326.4	338.8	400.4	434.2	529.7
57.5°	154.0	169.4	157.1	184.8	197.1	252.5	271.0	329.5	351.1	434.2
60°	21.6	24.6	40.0	129.3	138.6	166.3	209.4	261.8	283.3	354.2
62.5°	3.1	3.1	9.2	21.6	92.4	110.9	157.1	181.7	209.4	264.8
65°	0.0	0.0	3.1	6.2	18.5	64.7	80.1	98.5	144.7	190.9
67.5°	0.0	0.0	3.1	6.2	9.2	21.6	33.9	64.7	83.1	132.4
70°	0.0	0.0	3.1	6.2	9.2	12.3	18.5	24.6	49.3	77.0
72.5°	0.0	0.0	3.1	6.2	9.2	12.3	15.4	18.5	21.6	49.3
75°	0.0	0.0	3.1	6.2	9.2	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	9.2	15.4	21.6	24.6	18.5	12.3	9.2
82.5°	0.0	0.0	3.1	9.2	15.4	21.6	24.6	21.6	12.3	9.2
85°	0.0	0.0	3.1	9.2	12.3	15.4	24.6	21.6	12.3	6.2
87.5°	0.0	0.0	0.0	3.1	3.1	6.2	12.3	9.2	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°
37205.0	0°	37205.0	37205.0	37205.0	37205.0	37205.0	37205.0	37205.0	37205.0	37205.0
37300.5	2.5°	37577.6	37716.2	37959.5	38027.3	38236.7	37996.5	37864.0	37876.4	37590.0
37208.1	5°	37577.6	37894.8	38319.8	38523.1	38677.1	38664.7	38630.9	38544.6	38335.2
37023.3	7.5°	37479.1	37996.5	38581.6	38852.6	39037.4	39022.0	39099.0	38960.4	38704.8
36693.8	10°	37161.9	37611.5	38332.1	38553.9	38852.6	38858.8	38763.3	38791.0	38335.2
35489.6	12.5°	36164.1	36515.2	37146.5	37399.0	37762.4	37820.9	37716.2	37676.2	37245.0
33515.6	15°	34233.2	34436.4	35070.8	35323.3	35683.7	35634.4	35739.1	35696.0	35317.2
30848.6	17.5°	31409.1	31473.8	32139.0	32351.5	32690.3	32822.7	32665.6	32865.8	32539.4
27168.5	20°	27359.4	27707.4	28455.8	28782.2	28979.3	29216.4	29010.1	29234.9	28853.0
22703.0	22.5°	23251.2	23457.5	24135.1	24606.2	24972.7	25018.9	24941.9	25099.0	24584.7
18767.3	25°	18764.2	19106.0	19641.9	20257.8	20618.1	20839.9	20639.7	20741.3	20658.2
14554.3	27.5°	14800.7	15105.6	15509.0	15967.9	16509.9	16799.4	16639.2	16811.7	16405.2
10852.6	30°	10861.9	11015.8	11471.6	11958.2	12552.6	12903.6	12919.0	13094.6	12854.4
7603.6	32.5°	7659.0	7794.5	8074.8	8398.1	8964.8	9355.9	9294.3	9319.0	9171.1
4955.1	35°	4979.8	5161.5	5361.6	5515.6	5857.5	6288.6	6254.7	6223.9	6122.3
3258.2	37.5°	3329.1	3399.9	3510.8	3649.4	3871.1	4142.1	4231.4	4120.5	4077.4
2198.9	40°	2251.2	2374.4	2448.3	2553.0	2657.7	2885.6	2947.2	2925.6	2882.5
1539.8	42.5°	1598.3	1693.8	1786.2	1887.8	1943.2	2084.9	2205.0	2171.1	2152.7
1170.3	45°	1213.4	1299.6	1407.4	1484.4	1539.8	1623.0	1736.9	1749.2	1721.5
939.3	47.5°	973.2	1050.2	1136.4	1231.9	1296.5	1348.9	1447.4	1484.4	1465.9
791.5	50°	825.3	883.9	967.0	1062.5	1133.3	1179.5	1265.7	1305.8	1293.4
662.1	52.5°	702.2	773.0	850.0	930.0	1016.3	1062.5	1142.5	1201.1	1191.8
548.2	55°	582.0	674.4	754.5	834.6	933.1	979.3	1050.2	1127.1	1111.7
465.0	57.5°	508.1	585.1	668.3	745.3	850.0	911.6	976.2	1056.3	1053.2
381.9	60°	425.0	502.0	594.4	659.0	769.9	856.1	914.6	997.8	1004.0
289.5	62.5°	338.8	434.2	505.1	594.4	696.0	797.6	853.1	936.2	967.0
221.7	65°	252.5	357.2	437.3	526.6	622.1	736.0	785.3	868.5	899.3
160.1	67.5°	187.9	267.9	369.6	446.5	554.3	652.9	711.4	788.4	809.9
95.5	70°	141.7	206.3	308.0	375.7	486.6	566.7	625.2	683.7	711.4
64.7	72.5°	83.1	154.0	243.3	323.4	418.8	486.6	529.7	575.9	594.4
30.8	75°	58.5	117.0	190.9	267.9	338.8	394.2	434.2	474.3	492.7
15.4	77.5°	30.8	86.2	150.9	215.6	264.8	311.0	351.1	381.9	394.2
12.3	80°	18.5	61.6	123.2	169.4	203.3	243.3	283.3	304.9	301.8
9.2	82.5°	12.3	49.3	89.3	123.2	147.8	178.6	206.3	221.7	221.7
6.2	85°	9.2	33.9	61.6	95.5	98.5	123.2	129.3	144.7	147.8
6.2	87.5°	6.2	21.6	33.9	55.4	52.4	64.7	67.8	77.0	83.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
37205.0
37359.0
38403.0
38763.3
38202.8
37146.5
35437.3
32459.3
28822.3
24513.9
20605.8
16509.9
12897.5
9254.3
6033.0
4068.2
2888.7
2137.3
1718.4
1456.7
1290.4
1185.7
1111.7
1050.2
1004.0
963.9
896.2
809.9
705.2
588.2
486.6
391.1
298.7
218.7
144.7
80.1
0.0

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