

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: P637611

Luminaire Tested: **IFLD-S-SA2E-735-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637611
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-735-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16768.6 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 156.2
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



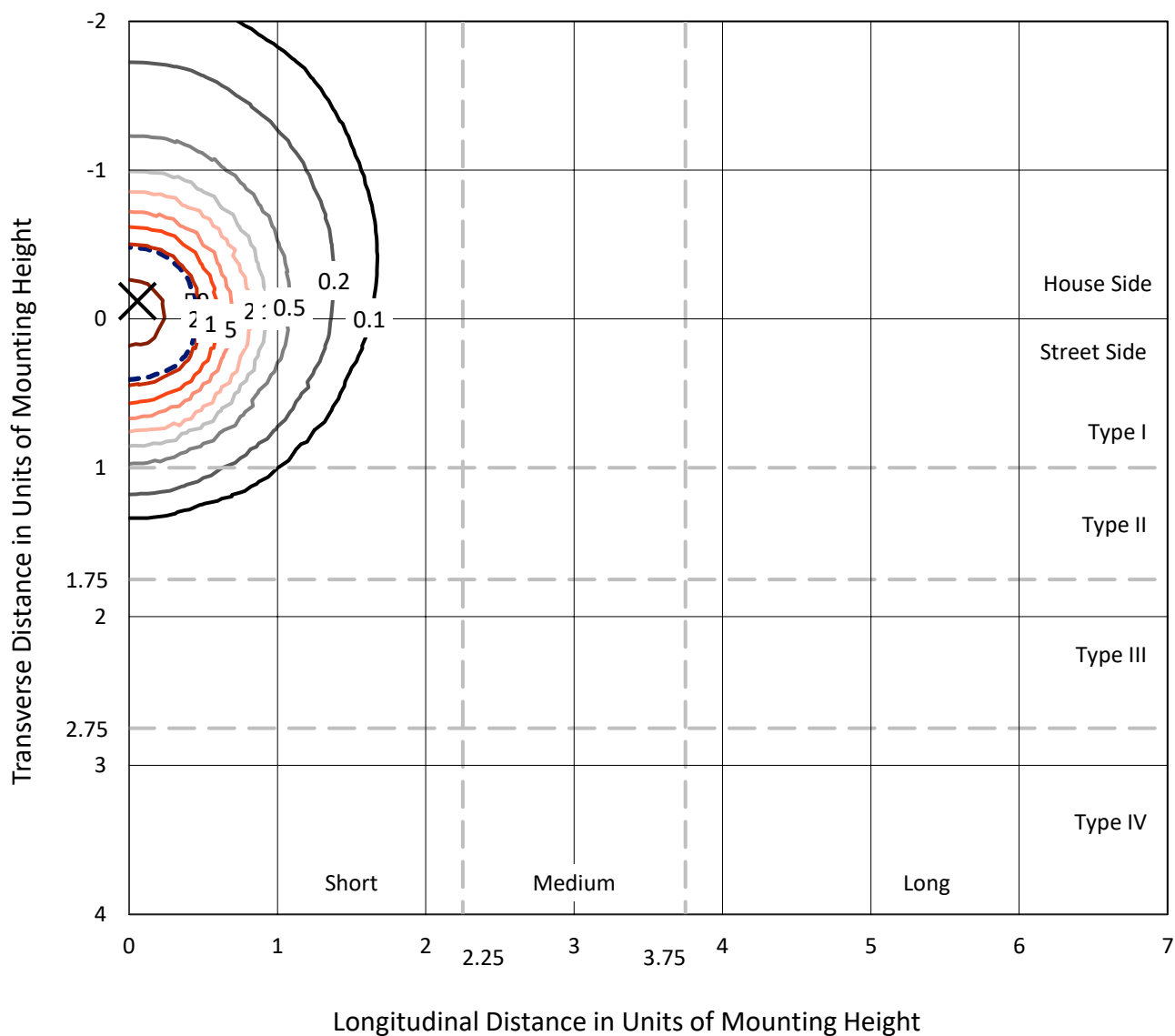
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



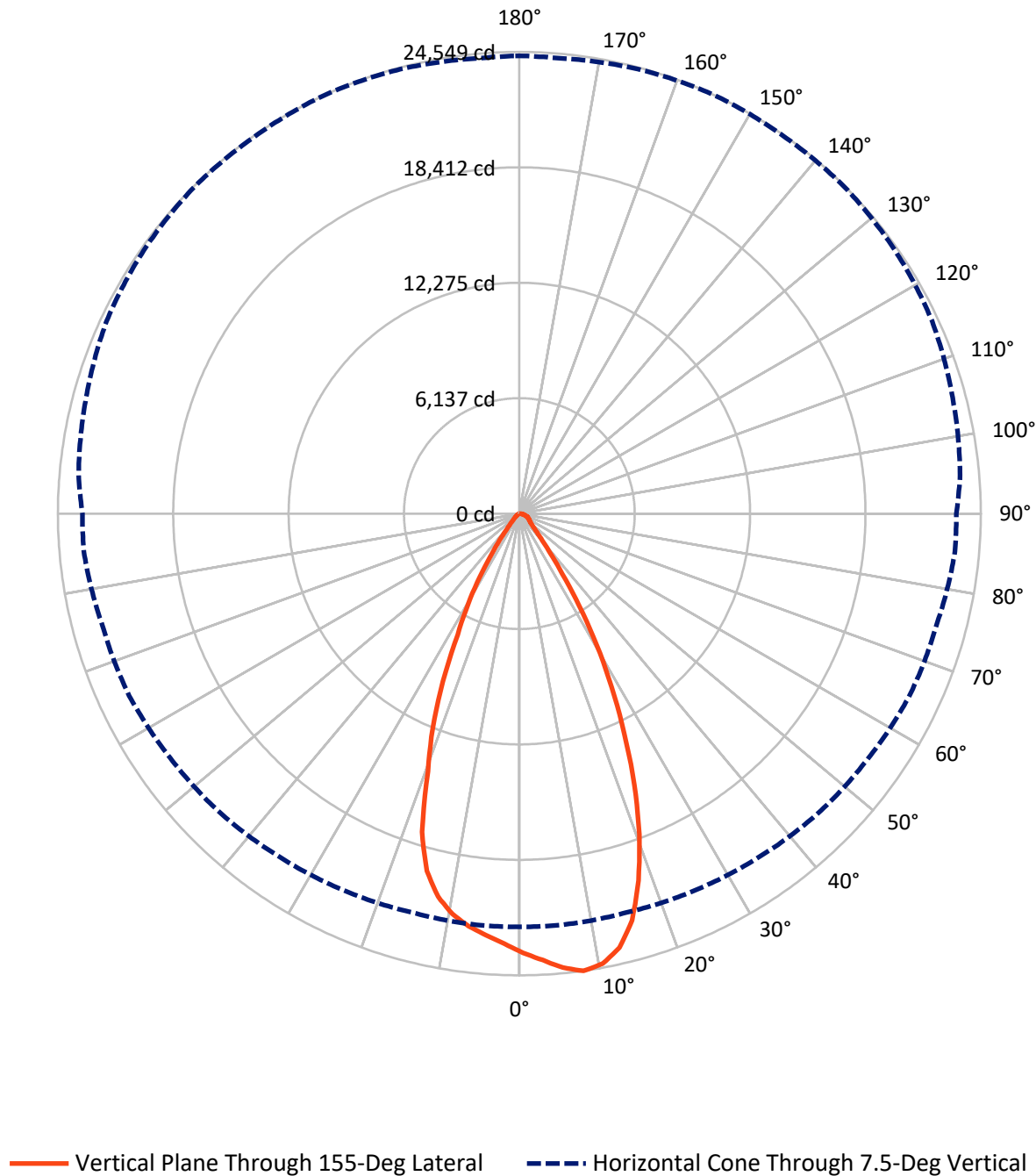
Based on 20 foot mounting height. Maximum calculated value = 59.4 fc

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	9256.9	0.0	9256.9
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	7511.7	0.0	7511.7
	% Fixture	44.8	0.0	44.8
Total	Lumens	16768.6	0.0	16768.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2227.5	13.3
10°-20°	5776.0	34.4
20°-30°	5292.4	31.6
30°-40°	2138.1	12.8
40°-50°	627.2	3.7
50°-60°	350.7	2.1
60°-70°	213.0	1.3
70°-80°	108.2	0.6
80°-90°	35.4	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°	16768.6	100.0
0°-180°	16768.6	100.0

Coefficient of Utilization



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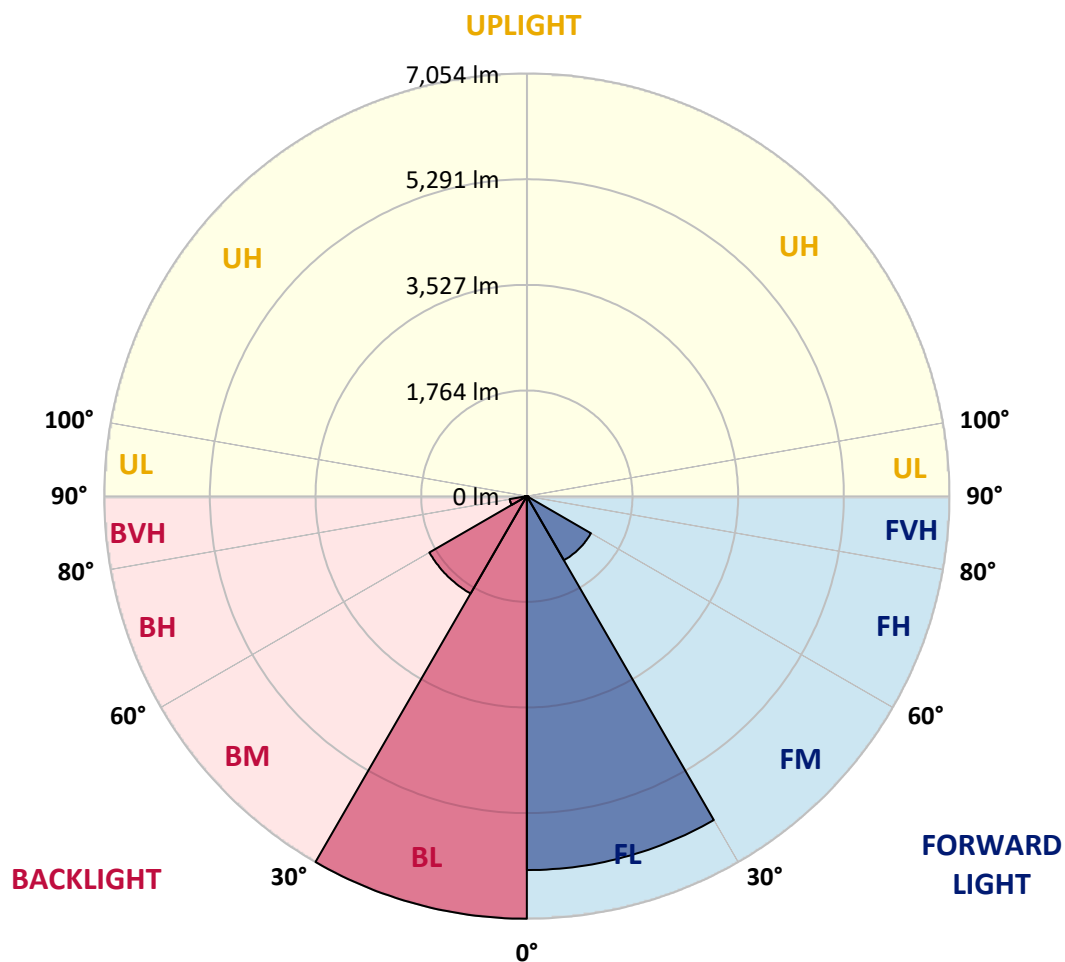
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6241.7	37.2			
FM	(30°-60°)	1237.0	7.4			
FH	(60°-80°)	30.0	0.2			G0/660
FVH	(80°-90°)	3.1	0.0			G0/10
BL	(0°-30°)	7054.2	42.1	B5		
BM	(30°-60°)	1879.1	11.2	B2/2500		
BH	(60°-80°)	291.3	1.7	B1/500		G1/500
BVH	(80°-90°)	32.3	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°	23359.9	23359.9	23359.9	23359.9	23359.9	23359.9	23359.9	23359.9	23359.9	23359.9
2.5°	22853.3	22930.7	22776.0	22878.4	22957.7	23147.2	23162.7	23228.4	23251.6	23423.7
5°	22420.2	22480.1	22354.4	22491.7	22603.9	22772.1	22901.6	23083.4	23184.0	23387.0
7.5°	21969.6	21983.2	21958.0	22103.1	22271.3	22503.3	22663.8	22901.6	22963.5	23253.6
10°	21424.4	21325.8	21374.1	21586.8	21838.2	22193.9	22304.2	22542.0	22652.2	22948.1
12.5°	20554.2	20604.5	20544.6	20815.3	21024.1	21428.2	21544.3	21784.0	21994.8	22255.8
15°	19328.3	19299.3	19421.2	19631.9	19858.1	20179.1	20366.7	20627.7	20788.2	21058.9
17.5°	16572.9	16671.6	17174.3	17702.2	18166.2	18541.4	18765.7	18982.2	19098.2	19392.1
20°	14312.6	14188.8	14256.5	14554.3	15874.9	16449.2	16685.1	16737.3	16785.6	17017.7
22.5°	11785.3	11744.7	11971.0	12305.5	12618.7	13943.2	14264.2	14142.4	14243.0	14461.5
25°	8751.5	8956.5	9157.6	9799.5	10205.6	10855.3	11464.4	11518.5	11555.2	11692.5
27.5°	7123.4	7051.9	7048.0	7227.8	7827.2	8368.7	8886.9	9006.7	8985.5	9117.0
30°	5599.7	5576.5	5495.3	5537.9	5477.9	5959.4	6203.0	6696.1	6669.0	6672.9
32.5°	4039.3	3952.3	3919.4	3983.2	3921.4	3876.9	4089.6	4646.5	4636.8	4675.5
35°	2444.1	2432.5	2459.5	2515.6	2391.9	2388.0	2432.5	2956.5	3020.3	3082.2
37.5°	1349.7	1338.1	1359.3	1566.2	1525.6	1488.9	1500.5	1777.0	1960.7	2007.1
40°	889.5	887.5	903.0	939.7	1009.3	995.8	1001.6	1125.4	1299.4	1340.0
42.5°	595.6	597.5	607.2	649.7	659.4	729.0	717.4	746.4	908.8	943.6
45°	475.7	473.7	479.5	460.2	471.8	543.3	551.1	553.0	692.2	713.5
47.5°	375.1	375.1	380.9	355.8	350.0	394.5	435.1	440.9	553.0	582.0
50°	263.0	263.0	292.0	280.4	293.9	307.4	351.9	357.7	452.5	483.4
52.5°	193.4	197.2	201.1	203.0	247.5	245.6	284.2	311.3	342.2	396.4
55°	147.0	150.8	141.2	150.8	183.7	205.0	212.7	251.4	272.6	332.6
57.5°	96.7	106.3	98.6	116.0	123.8	158.6	170.2	206.9	220.4	272.6
60°	13.5	15.5	25.1	81.2	87.0	104.4	131.5	164.4	177.9	222.4
62.5°	1.9	1.9	5.8	13.5	58.0	69.6	98.6	114.1	131.5	166.3
65°	0.0	0.0	1.9	3.9	11.6	40.6	50.3	61.9	90.9	119.9
67.5°	0.0	0.0	1.9	3.9	5.8	13.5	21.3	40.6	52.2	83.1
70°	0.0	0.0	1.9	3.9	5.8	7.7	11.6	15.5	30.9	48.3
72.5°	0.0	0.0	1.9	3.9	5.8	7.7	9.7	11.6	13.5	30.9
75°	0.0	0.0	1.9	3.9	5.8	9.7	11.6	11.6	11.6	13.5
77.5°	0.0	0.0	1.9	3.9	7.7	11.6	13.5	11.6	9.7	9.7
80°	0.0	0.0	1.9	5.8	9.7	13.5	15.5	11.6	7.7	5.8
82.5°	0.0	0.0	1.9	5.8	9.7	13.5	15.5	13.5	7.7	5.8
85°	0.0	0.0	1.9	5.8	7.7	9.7	15.5	13.5	7.7	3.9
87.5°	0.0	0.0	0.0	1.9	1.9	3.9	7.7	5.8	3.9	1.9
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°
23359.9	0°	23359.9	23359.9	23359.9	23359.9	23359.9	23359.9	23359.9	23359.9	23359.9
23419.9	2.5°	23593.9	23680.9	23833.6	23876.2	24007.7	23856.8	23773.7	23781.4	23601.6
23361.8	5°	23593.9	23793.0	24059.9	24187.5	24284.2	24276.4	24255.2	24201.0	24069.5
23245.8	7.5°	23532.0	23856.8	24224.2	24394.4	24510.4	24500.7	24549.1	24462.1	24301.6
23038.9	10°	23332.8	23615.1	24067.6	24206.8	24394.4	24398.3	24338.3	24355.7	24069.5
22282.9	12.5°	22706.4	22926.8	23323.2	23481.7	23709.9	23746.6	23680.9	23655.8	23385.0
21043.5	15°	21494.0	21621.6	22019.9	22178.5	22404.7	22373.8	22439.5	22412.4	22174.6
19368.9	17.5°	19720.9	19761.5	20179.1	20312.5	20525.2	20608.4	20509.8	20635.5	20430.5
17058.3	20°	17178.2	17396.7	17866.5	18071.5	18195.2	18344.1	18214.6	18355.7	18116.0
14254.6	22.5°	14598.7	14728.3	15153.7	15449.5	15679.6	15708.6	15660.3	15758.9	15436.0
11783.4	25°	11781.5	11996.1	12332.5	12719.3	12945.5	13084.7	12959.0	13022.8	12970.6
9138.2	27.5°	9292.9	9484.3	9737.6	10025.8	10366.1	10547.8	10447.3	10555.6	10300.3
6814.0	30°	6819.8	6916.5	7202.7	7508.2	7881.4	8101.8	8111.5	8221.7	8070.9
4774.1	32.5°	4808.9	4894.0	5069.9	5272.9	5628.7	5874.3	5835.6	5851.1	5758.3
3111.2	35°	3126.6	3240.7	3366.4	3463.1	3677.7	3948.4	3927.2	3907.8	3844.0
2045.8	37.5°	2090.2	2134.7	2204.3	2291.3	2430.5	2600.7	2656.8	2587.2	2560.1
1380.6	40°	1413.5	1490.8	1537.2	1603.0	1668.7	1811.8	1850.5	1836.9	1809.9
966.8	42.5°	1003.5	1063.5	1121.5	1185.3	1220.1	1309.1	1384.5	1363.2	1351.6
734.8	45°	761.8	816.0	883.7	932.0	966.8	1019.0	1090.6	1098.3	1080.9
589.8	47.5°	611.0	659.4	713.5	773.4	814.0	846.9	908.8	932.0	920.4
496.9	50°	518.2	554.9	607.2	667.1	711.6	740.6	794.7	819.8	812.1
415.7	52.5°	440.9	485.3	533.7	583.9	638.1	667.1	717.4	754.1	748.3
344.2	55°	365.5	423.5	473.7	524.0	585.9	614.9	659.4	707.7	698.0
292.0	57.5°	319.0	367.4	419.6	467.9	533.7	572.3	613.0	663.2	661.3
239.8	60°	266.8	315.2	373.2	413.8	483.4	537.5	574.3	626.5	630.4
181.8	62.5°	212.7	272.6	317.1	373.2	437.0	500.8	535.6	587.8	607.2
139.2	65°	158.6	224.3	274.6	330.6	390.6	462.1	493.1	545.3	564.6
100.5	67.5°	118.0	168.2	232.0	280.4	348.0	409.9	446.7	495.0	508.5
59.9	70°	88.9	129.6	193.4	235.9	305.5	355.8	392.5	429.3	446.7
40.6	72.5°	52.2	96.7	152.8	203.0	263.0	305.5	332.6	361.6	373.2
19.3	75°	36.7	73.5	119.9	168.2	212.7	247.5	272.6	297.8	309.4
9.7	77.5°	19.3	54.1	94.7	135.4	166.3	195.3	220.4	239.8	247.5
7.7	80°	11.6	38.7	77.3	106.3	127.6	152.8	177.9	191.4	189.5
5.8	82.5°	7.7	30.9	56.1	77.3	92.8	112.1	129.6	139.2	139.2
3.9	85°	5.8	21.3	38.7	59.9	61.9	77.3	81.2	90.9	92.8
3.9	87.5°	3.9	13.5	21.3	34.8	32.9	40.6	42.5	48.3	52.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
23359.9
23456.6
24112.1
24338.3
23986.4
23323.2
22250.0
20380.2
18096.6
15391.5
12937.8
10366.1
8097.9
5810.5
3787.9
2554.3
1813.7
1341.9
1079.0
914.6
810.2
744.4
698.0
659.4
630.4
605.2
562.7
508.5
442.8
369.3
305.5
245.6
187.6
137.3
90.9
50.3
0.0

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