

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: P637723

Luminaire Tested: **IFLD-S-SA2A-827-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637723
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-827-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (32) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6374.9 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G1

Input Watts (W): 63.8
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



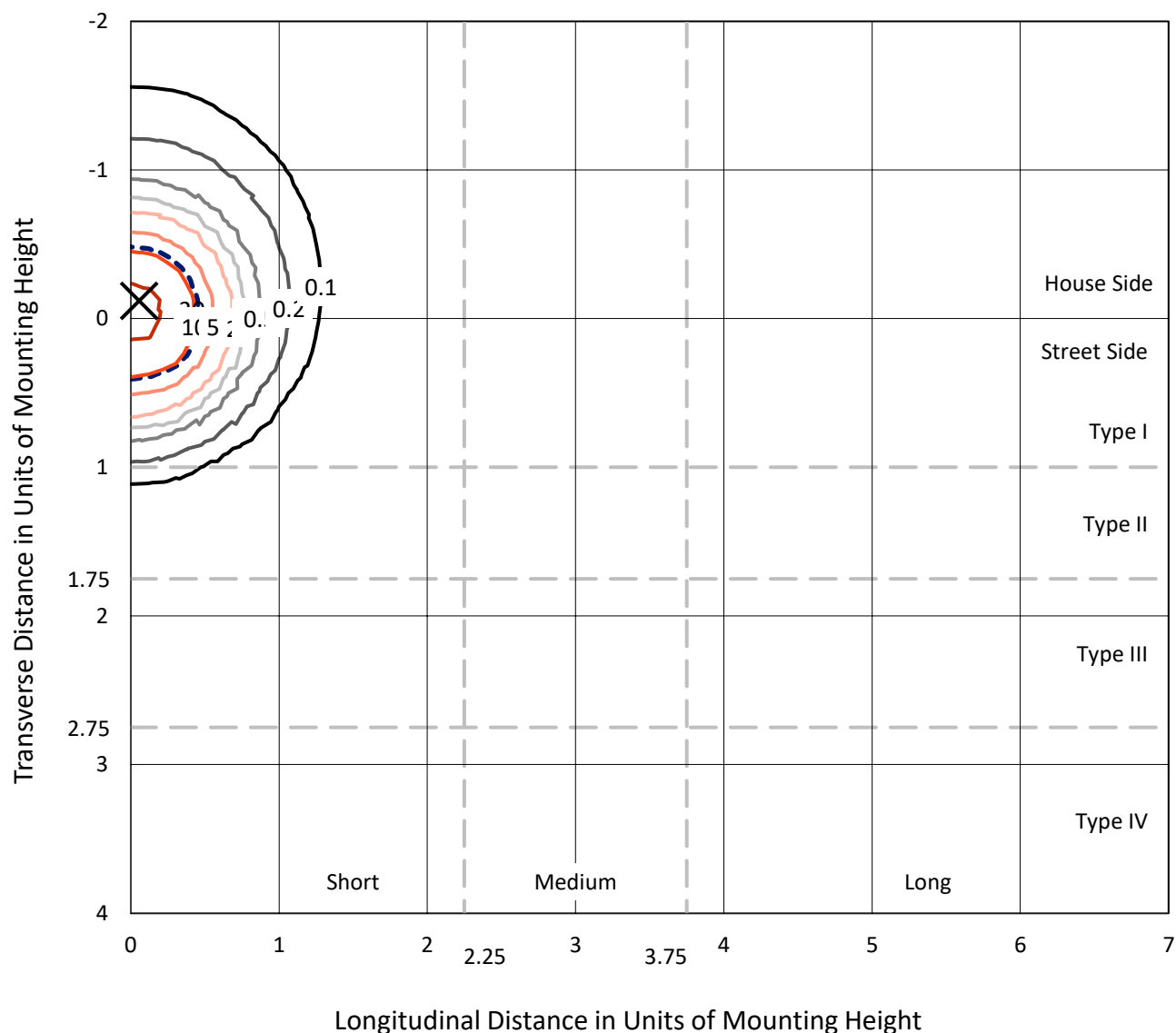
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



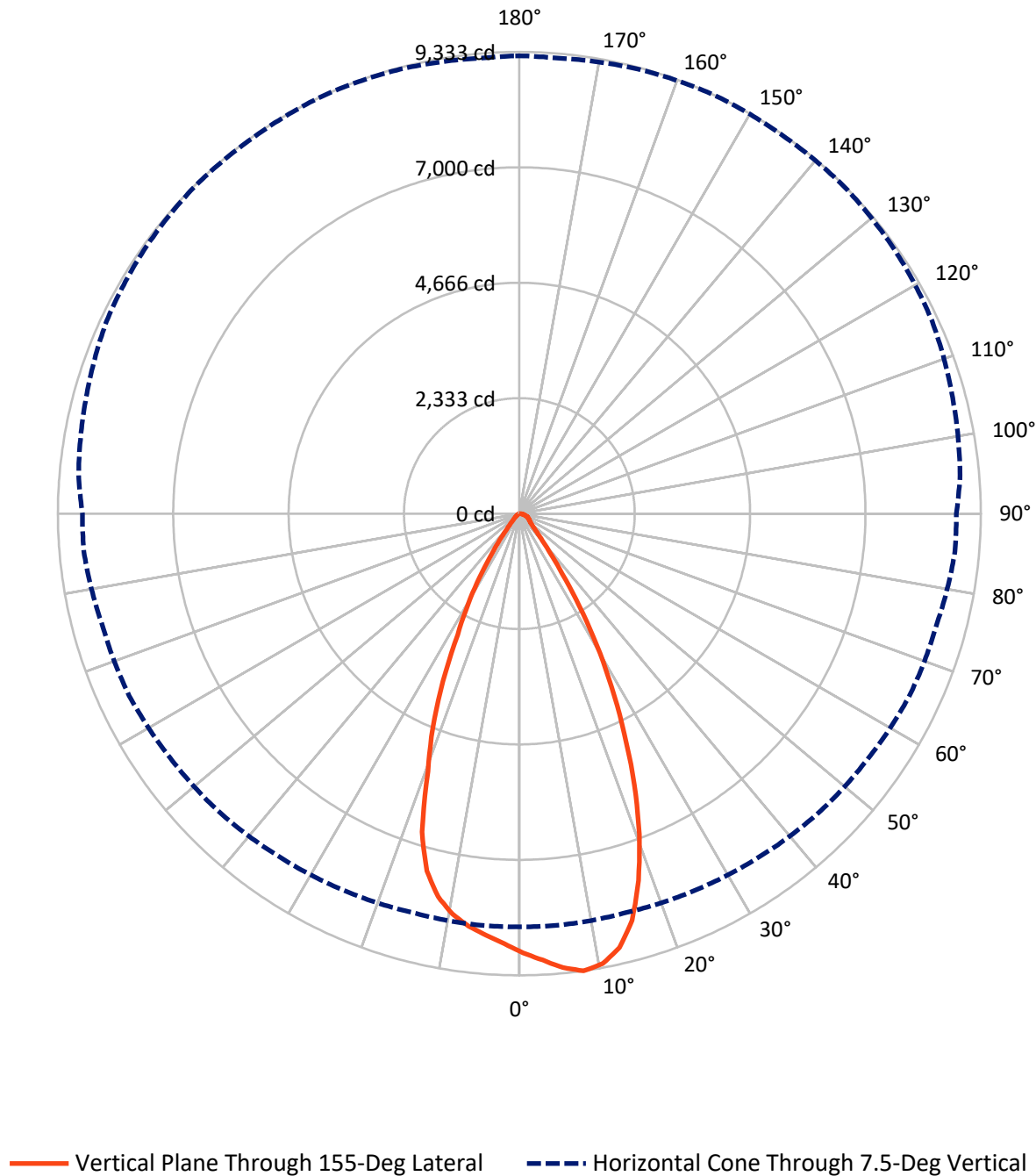
Based on 20 foot mounting height. Maximum calculated value = 22.6 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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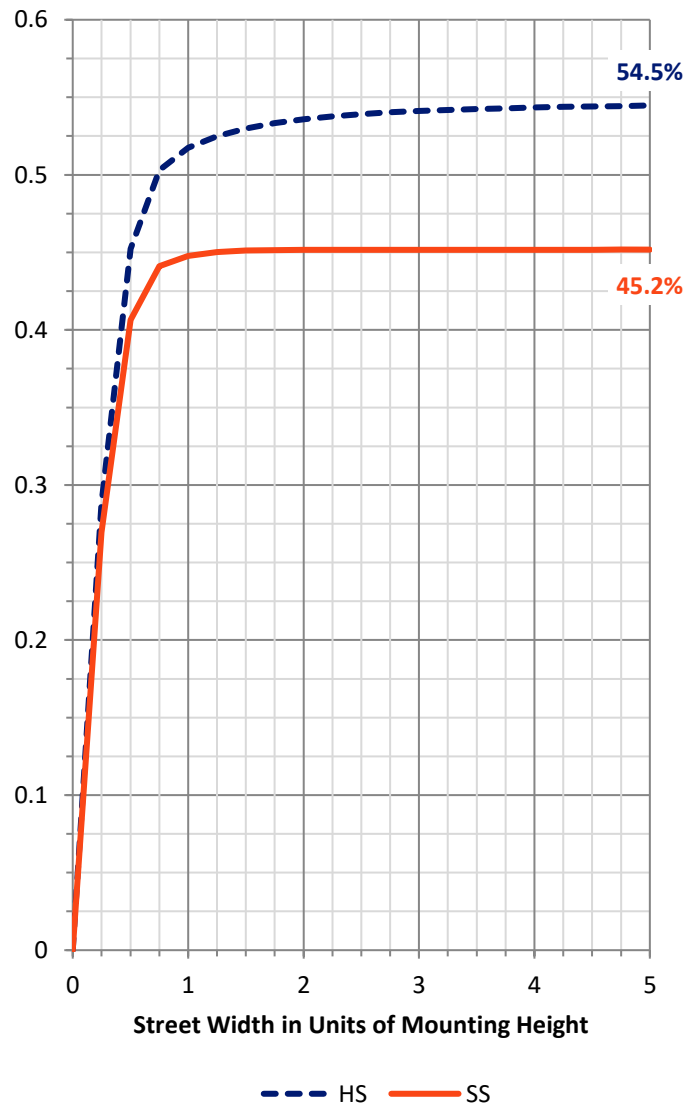
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3519.2	0.0	3519.2
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	2855.7	0.0	2855.7
	% Fixture	44.8	0.0	44.8
Total	Lumens	6374.9	0.0	6374.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	846.8	13.3
10°-20°	2195.9	34.4
20°-30°	2012.0	31.6
30°-40°	812.9	12.8
40°-50°	238.5	3.7
50°-60°	133.3	2.1
60°-70°	81.0	1.3
70°-80°	41.1	0.6
80°-90°	13.4	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°	6374.9	100.0
0°-180°	6374.9	100.0

Coefficient of Utilization



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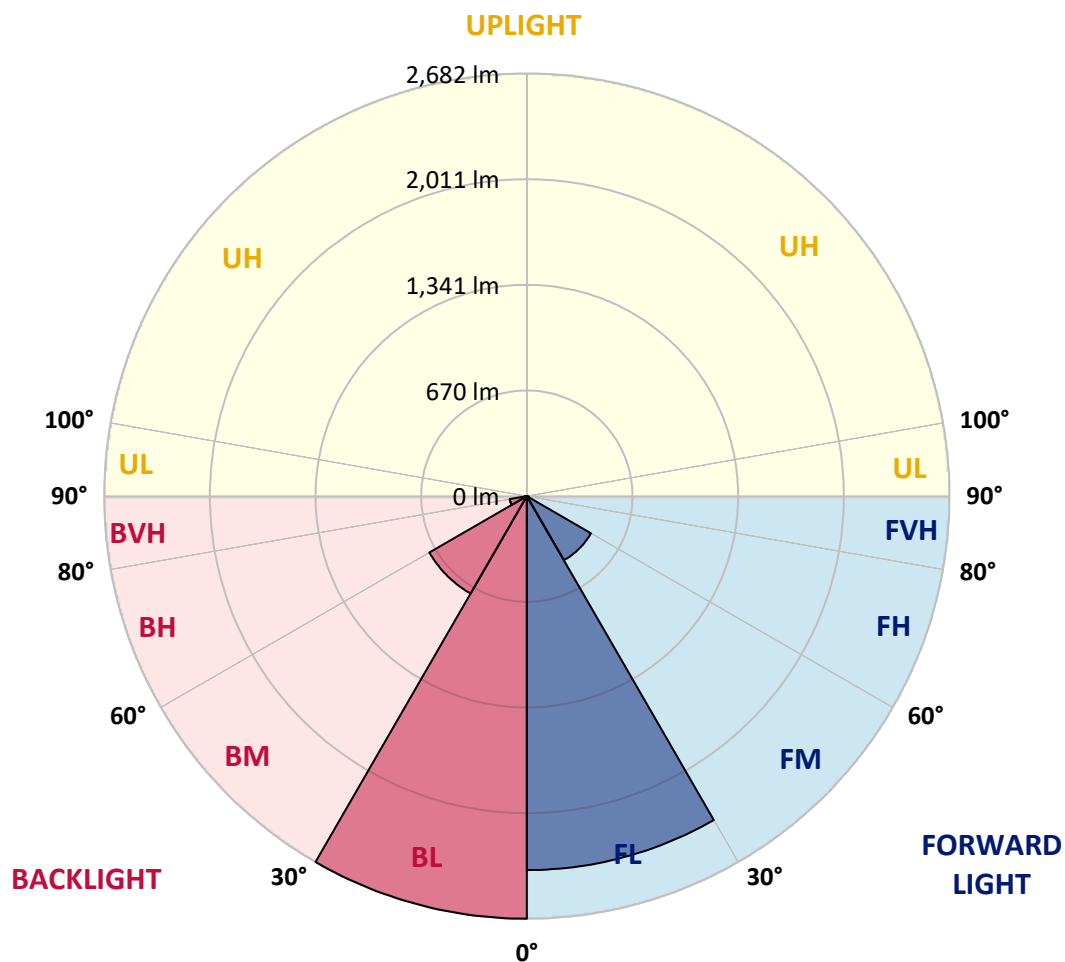
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2372.9	37.2			
FM	(30°-60°)	470.3	7.4			
FH	(60°-80°)	11.4	0.2			G0/660
FVH	(80°-90°)	1.2	0.0			G0/10
BL	(0°-30°)	2681.8	42.1	B4/5000		
BM	(30°-60°)	714.4	11.2	B1/1000		
BH	(60°-80°)	110.7	1.7	B1/500		G1/500
BVH	(80°-90°)	12.3	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8880.8	8880.8	8880.8	8880.8	8880.8	8880.8	8880.8	8880.8	8880.8	8880.8
2.5°	8688.2	8717.6	8658.8	8697.7	8727.9	8799.9	8805.8	8830.8	8839.6	8905.0
5°	8523.5	8546.3	8498.5	8550.7	8593.4	8657.3	8706.6	8775.7	8813.9	8891.1
7.5°	8352.2	8357.4	8347.8	8403.0	8466.9	8555.1	8616.1	8706.6	8730.1	8840.4
10°	8144.9	8107.5	8125.8	8206.7	8302.3	8437.5	8479.4	8569.8	8611.7	8724.2
12.5°	7814.1	7833.3	7810.5	7913.4	7992.8	8146.4	8190.5	8281.7	8361.8	8461.0
15°	7348.1	7337.1	7383.4	7463.5	7549.5	7671.5	7742.8	7842.1	7903.1	8006.0
17.5°	6300.6	6338.1	6529.2	6729.9	6906.3	7048.9	7134.2	7216.5	7260.6	7372.4
20°	5441.2	5394.2	5419.9	5533.1	6035.2	6253.5	6343.2	6363.1	6381.4	6469.6
22.5°	4480.5	4465.0	4551.0	4678.2	4797.3	5300.8	5422.9	5376.5	5414.8	5497.8
25°	3327.1	3405.0	3481.4	3725.5	3879.9	4126.9	4358.4	4379.0	4393.0	4445.2
27.5°	2708.1	2680.9	2679.5	2747.8	2975.7	3181.5	3378.5	3424.1	3416.0	3466.0
30°	2128.9	2120.0	2089.2	2105.3	2082.5	2265.6	2358.2	2545.7	2535.4	2536.8
32.5°	1535.6	1502.6	1490.1	1514.3	1490.8	1473.9	1554.7	1766.5	1762.8	1777.5
35°	929.2	924.8	935.1	956.4	909.3	907.9	924.8	1124.0	1148.2	1171.8
37.5°	513.1	508.7	516.8	595.4	580.0	566.0	570.4	675.6	745.4	763.0
40°	338.1	337.4	343.3	357.3	383.7	378.6	380.8	427.8	494.0	509.4
42.5°	226.4	227.1	230.8	247.0	250.7	277.1	272.7	283.7	345.5	358.7
45°	180.8	180.1	182.3	175.0	179.4	206.6	209.5	210.2	263.2	271.3
47.5°	142.6	142.6	144.8	135.3	133.1	150.0	165.4	167.6	210.2	221.3
50°	100.0	100.0	111.0	106.6	111.7	116.9	133.8	136.0	172.0	183.8
52.5°	73.5	75.0	76.5	77.2	94.1	93.4	108.1	118.4	130.1	150.7
55°	55.9	57.3	53.7	57.3	69.8	77.9	80.9	95.6	103.6	126.4
57.5°	36.8	40.4	37.5	44.1	47.0	60.3	64.7	78.7	83.8	103.6
60°	5.1	5.9	9.6	30.9	33.1	39.7	50.0	62.5	67.6	84.5
62.5°	0.7	0.7	2.2	5.1	22.1	26.5	37.5	43.4	50.0	63.2
65°	0.0	0.0	0.7	1.5	4.4	15.4	19.1	23.5	34.5	45.6
67.5°	0.0	0.0	0.7	1.5	2.2	5.1	8.1	15.4	19.8	31.6
70°	0.0	0.0	0.7	1.5	2.2	2.9	4.4	5.9	11.8	18.4
72.5°	0.0	0.0	0.7	1.5	2.2	2.9	3.7	4.4	5.1	11.8
75°	0.0	0.0	0.7	1.5	2.2	3.7	4.4	4.4	4.4	5.1
77.5°	0.0	0.0	0.7	1.5	2.9	4.4	5.1	4.4	3.7	3.7
80°	0.0	0.0	0.7	2.2	3.7	5.1	5.9	4.4	2.9	2.2
82.5°	0.0	0.0	0.7	2.2	3.7	5.1	5.9	5.1	2.9	2.2
85°	0.0	0.0	0.7	2.2	2.9	3.7	5.9	5.1	2.9	1.5
87.5°	0.0	0.0	0.0	0.7	0.7	1.5	2.9	2.2	1.5	0.7
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°
8880.8	0°	8880.8	8880.8	8880.8	8880.8	8880.8	8880.8	8880.8	8880.8	8880.8
8903.6	2.5°	8969.7	9002.8	9060.9	9077.1	9127.0	9069.7	9038.1	9041.0	8972.7
8881.5	5°	8969.7	9045.4	9146.9	9195.4	9232.2	9229.2	9221.1	9200.6	9150.6
8837.4	7.5°	8946.2	9069.7	9209.4	9274.1	9318.2	9314.5	9332.9	9299.8	9238.8
8758.8	10°	8870.5	8977.8	9149.8	9202.8	9274.1	9275.5	9252.7	9259.4	9150.6
8471.3	12.5°	8632.3	8716.1	8866.8	8927.1	9013.8	9027.8	9002.8	8993.3	8890.3
8000.1	15°	8171.4	8219.9	8371.4	8431.6	8517.6	8505.9	8530.9	8520.6	8430.2
7363.5	17.5°	7497.3	7512.8	7671.5	7722.3	7803.1	7834.7	7797.2	7845.0	7767.1
6485.1	20°	6530.7	6613.7	6792.4	6870.3	6917.3	6973.9	6924.7	6978.3	6887.2
5419.2	22.5°	5550.0	5599.3	5761.0	5873.5	5961.0	5972.0	5953.6	5991.1	5868.3
4479.7	25°	4479.0	4560.6	4688.5	4835.5	4921.5	4974.4	4926.7	4950.9	4931.1
3474.1	27.5°	3532.9	3605.7	3702.0	3811.5	3940.9	4010.0	3971.8	4012.9	3915.9
2590.5	30°	2592.7	2629.5	2738.3	2854.4	2996.3	3080.1	3083.8	3125.7	3068.3
1815.0	32.5°	1828.2	1860.5	1927.4	2004.6	2139.9	2233.2	2218.5	2224.4	2189.1
1182.8	35°	1188.7	1232.0	1279.8	1316.6	1398.2	1501.1	1493.0	1485.6	1461.4
777.7	37.5°	794.6	811.6	838.0	871.1	924.0	988.7	1010.0	983.6	973.3
524.9	40°	537.4	566.8	584.4	609.4	634.4	688.8	703.5	698.3	688.1
367.6	42.5°	381.5	404.3	426.4	450.6	463.9	497.7	526.3	518.2	513.8
279.3	45°	289.6	310.2	335.9	354.3	367.6	387.4	414.6	417.5	410.9
224.2	47.5°	232.3	250.7	271.3	294.0	309.5	322.0	345.5	354.3	349.9
188.9	50°	197.0	211.0	230.8	253.6	270.5	281.5	302.1	311.7	308.7
158.0	52.5°	167.6	184.5	202.9	222.0	242.6	253.6	272.7	286.7	284.5
130.8	55°	138.9	161.0	180.1	199.2	222.7	233.8	250.7	269.0	265.4
111.0	57.5°	121.3	139.7	159.5	177.9	202.9	217.6	233.0	252.1	251.4
91.2	60°	101.4	119.8	141.9	157.3	183.8	204.4	218.3	238.2	239.6
69.1	62.5°	80.9	103.6	120.6	141.9	166.1	190.4	203.6	223.5	230.8
52.9	65°	60.3	85.3	104.4	125.7	148.5	175.7	187.5	207.3	214.7
38.2	67.5°	44.8	64.0	88.2	106.6	132.3	155.8	169.8	188.2	193.3
22.8	70°	33.8	49.3	73.5	89.7	116.1	135.3	149.2	163.2	169.8
15.4	72.5°	19.8	36.8	58.1	77.2	100.0	116.1	126.4	137.5	141.9
7.4	75°	14.0	27.9	45.6	64.0	80.9	94.1	103.6	113.2	117.6
3.7	77.5°	7.4	20.6	36.0	51.5	63.2	74.2	83.8	91.2	94.1
2.9	80°	4.4	14.7	29.4	40.4	48.5	58.1	67.6	72.8	72.0
2.2	82.5°	2.9	11.8	21.3	29.4	35.3	42.6	49.3	52.9	52.9
1.5	85°	2.2	8.1	14.7	22.8	23.5	29.4	30.9	34.5	35.3
1.5	87.5°	1.5	5.1	8.1	13.2	12.5	15.4	16.2	18.4	19.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
8880.8
8917.5
9166.7
9252.7
9119.0
8866.8
8458.8
7748.0
6879.8
5851.4
4918.6
3940.9
3078.6
2209.0
1440.1
971.1
689.5
510.2
410.2
347.7
308.0
283.0
265.4
250.7
239.6
230.1
213.9
193.3
168.3
140.4
116.1
93.4
71.3
52.2
34.5
19.1
0.0

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