

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: P637740

Luminaire Tested: **IFLD-M-SA4C-827-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637740
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-827-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (64) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19632.4 lumens
Efficiency: N/A
Efficacy: 90.0 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



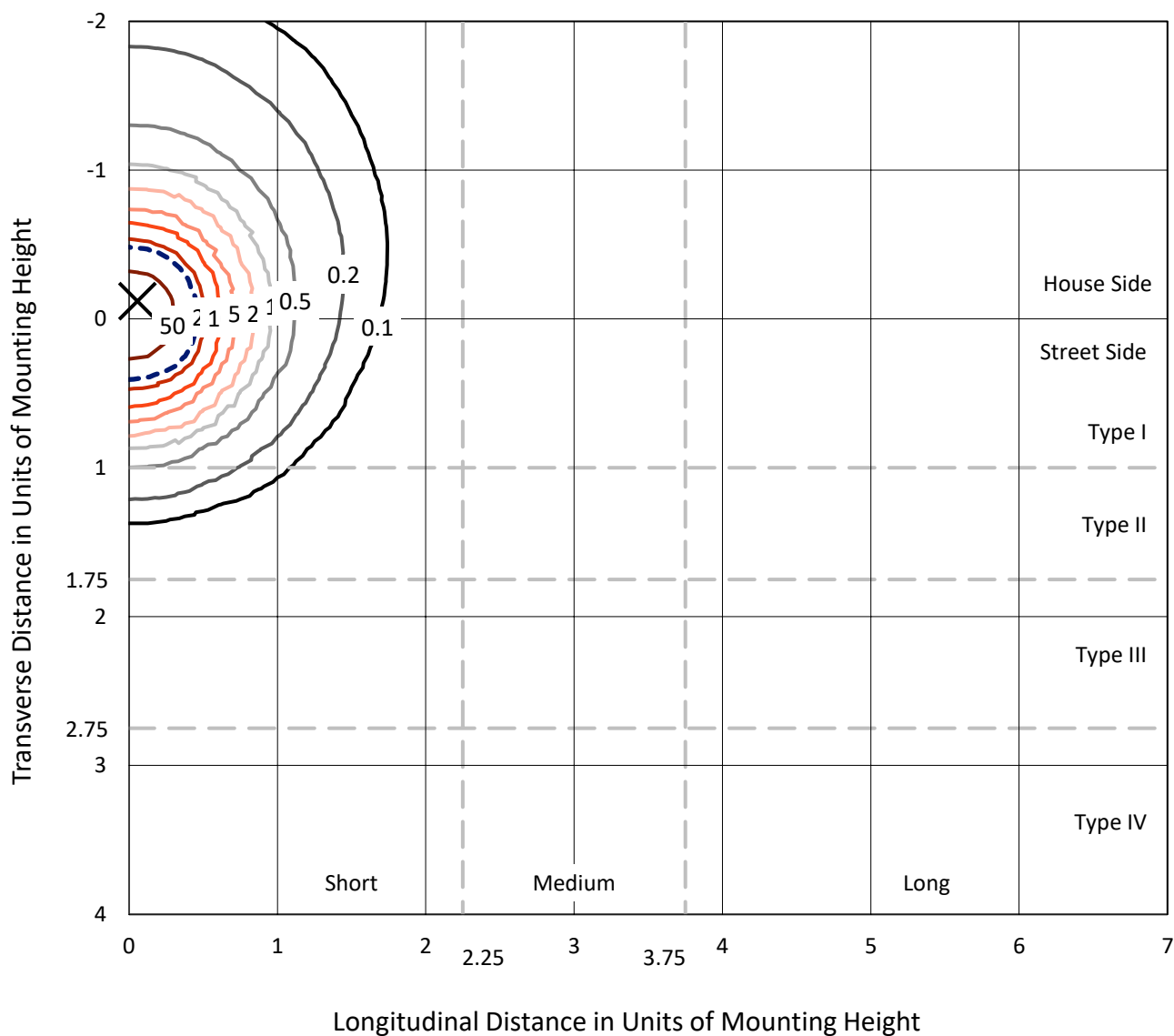
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

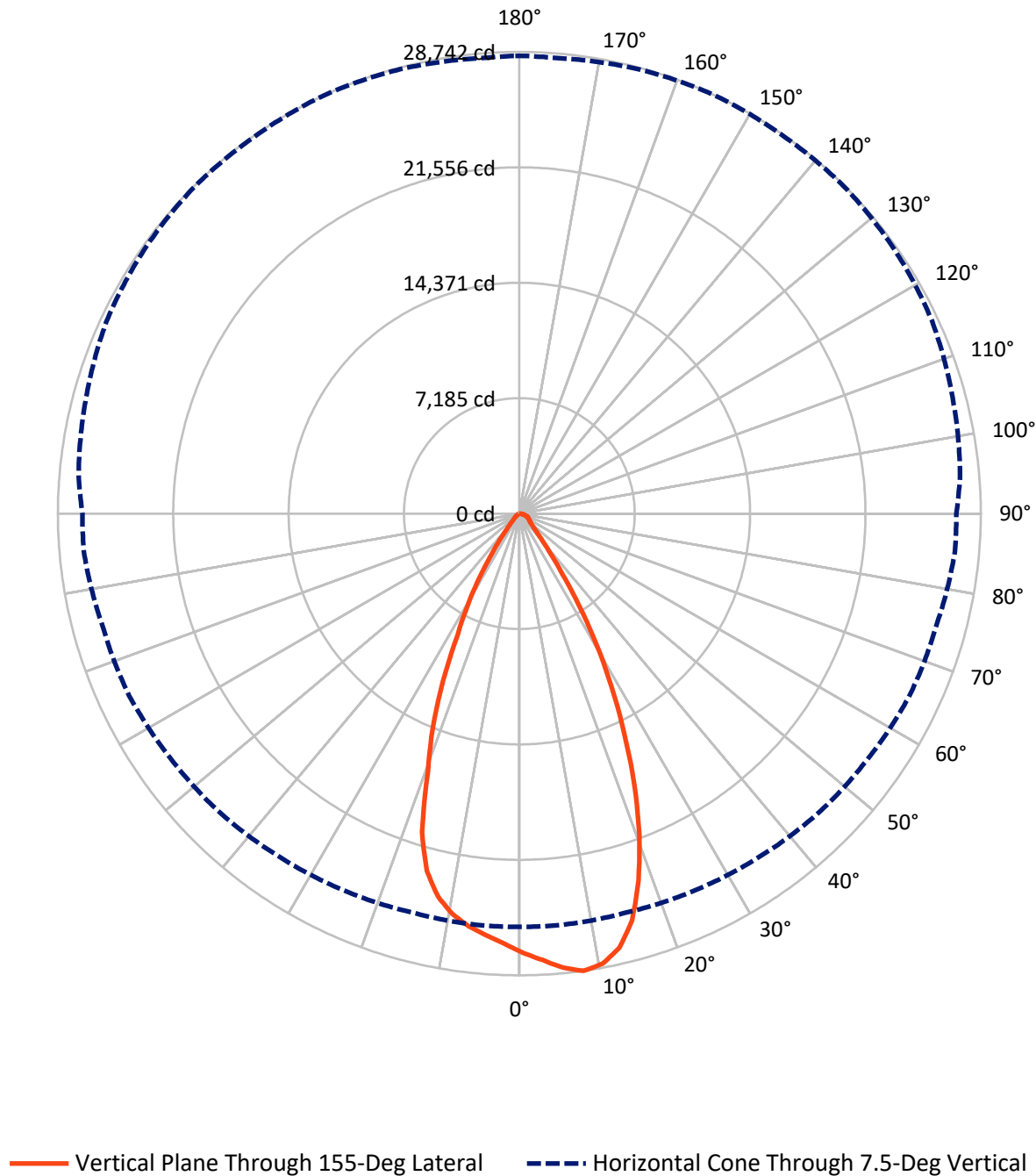


Based on 20 foot mounting height. Maximum calculated value = 69.5 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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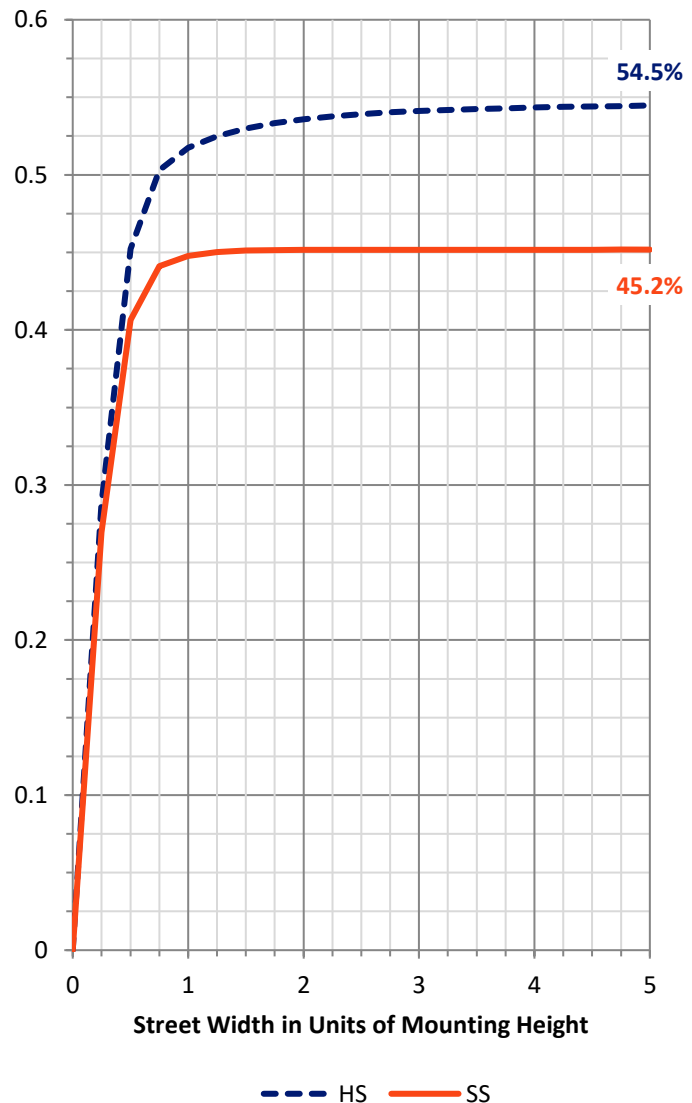
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10837.8	0.0	10837.8
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	8794.6	0.0	8794.6
	% Fixture	44.8	0.0	44.8
Total	Lumens	19632.4	0.0	19632.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2607.9	13.3
10°-20°	6762.4	34.4
20°-30°	6196.2	31.6
30°-40°	2503.3	12.8
40°-50°	734.4	3.7
50°-60°	410.6	2.1
60°-70°	249.4	1.3
70°-80°	126.7	0.6
80°-90°	41.4	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°	19632.4	100.0
0°-180°	19632.4	100.0

Coefficient of Utilization



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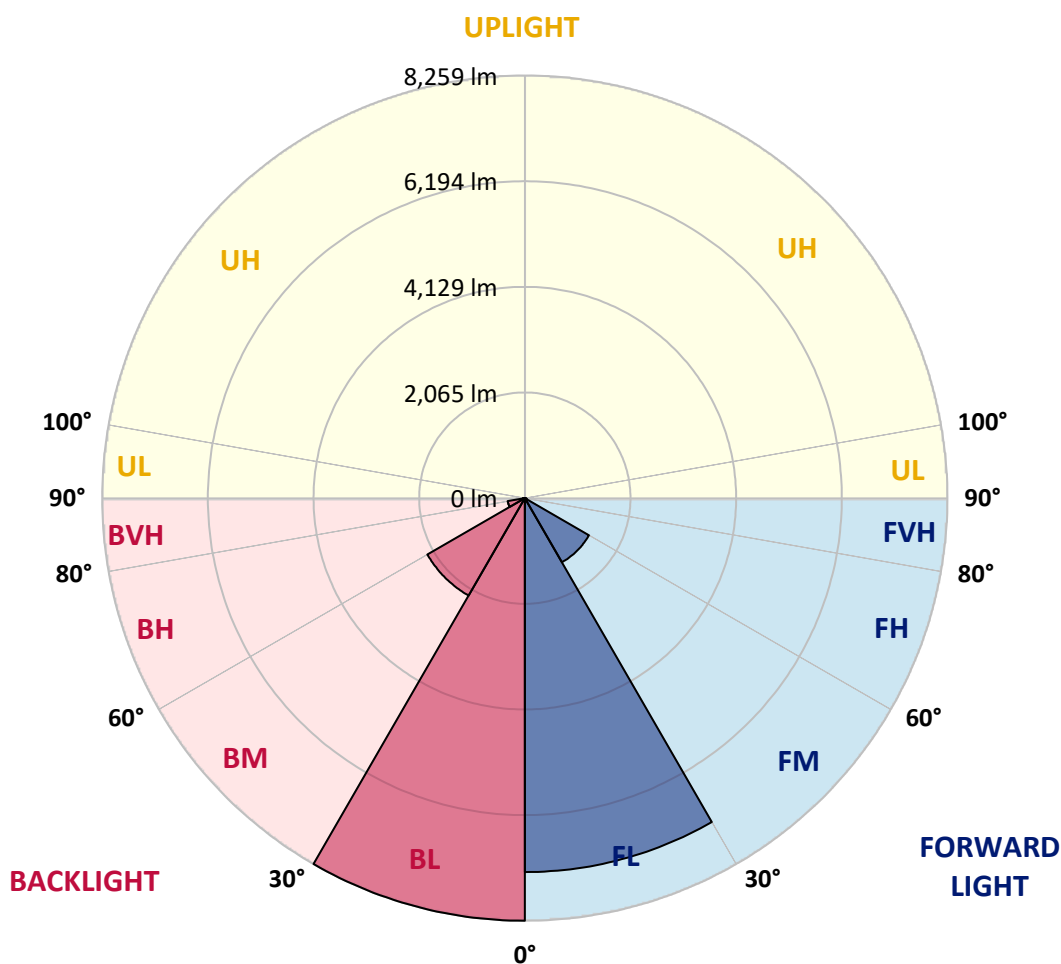
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	7307.7	37.2			
FM	(30°-60°)	1448.3	7.4			
FH	(60°-80°)	35.1	0.2			G0/660
FVH	(80°-90°)	3.6	0.0			G0/10
BL	(0°-30°)	8258.9	42.1	B5		
BM	(30°-60°)	2200.0	11.2	B2/2500		
BH	(60°-80°)	341.0	1.7	B1/500		G1/500
BVH	(80°-90°)	37.9	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°	27349.4	27349.4	27349.4	27349.4	27349.4	27349.4	27349.4	27349.4	27349.4	27349.4
2.5°	26756.3	26846.8	26665.7	26785.7	26878.5	27100.4	27118.5	27195.5	27222.6	27424.1
5°	26249.2	26319.4	26172.2	26332.9	26464.2	26661.2	26812.9	27025.7	27143.4	27381.1
7.5°	25721.7	25737.5	25708.1	25877.9	26074.9	26346.5	26534.4	26812.9	26885.3	27224.9
10°	25083.3	24967.8	25024.4	25273.5	25567.8	25984.3	26113.3	26391.8	26520.8	26867.2
12.5°	24064.6	24123.4	24053.3	24370.2	24614.7	25087.8	25223.7	25504.4	25751.1	26056.7
15°	22629.3	22595.3	22738.0	22984.7	23249.6	23625.4	23845.0	24150.6	24338.5	24655.4
17.5°	19403.3	19518.8	20107.4	20725.4	21268.7	21707.9	21970.5	22224.1	22359.9	22704.0
20°	16756.9	16612.0	16691.3	17039.9	18586.1	19258.4	19534.6	19595.8	19652.4	19924.0
22.5°	13798.1	13750.5	14015.4	14407.0	14773.8	16324.5	16700.3	16557.7	16675.4	16931.2
25°	10246.1	10486.1	10721.5	11473.1	11948.5	12709.2	13422.3	13485.7	13528.7	13689.4
27.5°	8340.0	8256.2	8251.7	8462.2	9164.0	9797.9	10404.6	10544.9	10520.0	10674.0
30°	6556.1	6528.9	6433.8	6483.6	6413.4	6977.1	7262.4	7839.7	7808.0	7812.5
32.5°	4729.2	4627.3	4588.8	4663.5	4591.1	4539.0	4788.0	5440.0	5428.7	5474.0
35°	2861.5	2847.9	2879.6	2945.3	2800.4	2795.8	2847.9	3461.4	3536.1	3608.6
37.5°	1580.2	1566.6	1591.5	1833.7	1786.2	1743.2	1756.7	2080.5	2295.5	2349.9
40°	1041.4	1039.1	1057.2	1100.2	1181.7	1165.9	1172.7	1317.6	1521.3	1568.8
42.5°	697.3	699.5	710.8	760.6	772.0	853.5	839.9	873.8	1064.0	1104.8
45°	556.9	554.6	561.4	538.8	552.4	636.1	645.2	647.5	810.5	835.4
47.5°	439.2	439.2	446.0	416.5	409.8	461.8	509.4	516.2	647.5	681.4
50°	307.9	307.9	341.8	328.3	344.1	359.9	412.0	418.8	529.7	566.0
52.5°	226.4	230.9	235.4	237.7	289.8	287.5	332.8	364.5	400.7	464.1
55°	172.1	176.6	165.3	176.6	215.1	240.0	249.0	294.3	319.2	389.4
57.5°	113.2	124.5	115.5	135.8	144.9	185.6	199.2	242.2	258.1	319.2
60°	15.8	18.1	29.4	95.1	101.9	122.2	153.9	192.4	208.3	260.3
62.5°	2.3	2.3	6.8	15.8	67.9	81.5	115.5	133.6	153.9	194.7
65°	0.0	0.0	2.3	4.5	13.6	47.5	58.9	72.4	106.4	140.4
67.5°	0.0	0.0	2.3	4.5	6.8	15.8	24.9	47.5	61.1	97.3
70°	0.0	0.0	2.3	4.5	6.8	9.1	13.6	18.1	36.2	56.6
72.5°	0.0	0.0	2.3	4.5	6.8	9.1	11.3	13.6	15.8	36.2
75°	0.0	0.0	2.3	4.5	6.8	11.3	13.6	13.6	13.6	15.8
77.5°	0.0	0.0	2.3	4.5	9.1	13.6	15.8	13.6	11.3	11.3
80°	0.0	0.0	2.3	6.8	11.3	15.8	18.1	13.6	9.1	6.8
82.5°	0.0	0.0	2.3	6.8	11.3	15.8	18.1	15.8	9.1	6.8
85°	0.0	0.0	2.3	6.8	9.1	11.3	18.1	15.8	9.1	4.5
87.5°	0.0	0.0	0.0	2.3	2.3	4.5	9.1	6.8	4.5	2.3
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°
27349.4	0°	27349.4	27349.4	27349.4	27349.4	27349.4	27349.4	27349.4	27349.4	27349.4
27419.6	2.5°	27623.3	27725.2	27904.0	27953.8	28107.8	27931.2	27833.9	27842.9	27632.4
27351.7	5°	27623.3	27856.5	28168.9	28318.3	28431.5	28422.5	28397.6	28334.2	28180.2
27215.8	7.5°	27550.9	27931.2	28361.3	28560.5	28696.4	28685.1	28741.7	28639.8	28451.9
26973.6	10°	27317.7	27648.2	28178.0	28341.0	28560.5	28565.1	28494.9	28515.3	28180.2
26088.4	12.5°	26584.2	26842.3	27306.4	27492.0	27759.2	27802.2	27725.2	27695.8	27378.8
24637.3	15°	25164.8	25314.2	25780.6	25966.2	26231.1	26194.8	26271.8	26240.1	25961.7
22676.8	17.5°	23088.9	23136.4	23625.4	23781.6	24030.6	24128.0	24012.5	24159.7	23919.7
19971.6	20°	20111.9	20367.7	20917.8	21157.8	21302.7	21477.0	21325.3	21490.6	21209.9
16689.0	22.5°	17092.0	17243.6	17741.7	18088.0	18357.4	18391.4	18334.8	18450.3	18072.2
13795.8	25°	13793.6	14044.8	14438.7	14891.5	15156.4	15319.4	15172.2	15246.9	15185.8
10698.9	27.5°	10880.0	11104.1	11400.7	11738.0	12136.4	12349.2	12231.5	12358.3	12059.5
7977.8	30°	7984.5	8097.7	8432.8	8790.5	9227.4	9485.5	9496.8	9625.8	9449.2
5589.4	32.5°	5630.2	5729.8	5935.8	6173.5	6590.0	6877.5	6832.3	6850.4	6741.7
3642.5	35°	3660.6	3794.2	3941.3	4054.5	4305.8	4622.8	4597.9	4575.2	4500.5
2395.1	37.5°	2447.2	2499.3	2580.8	2682.6	2845.6	3044.9	3110.5	3029.0	2997.3
1616.4	40°	1654.9	1745.4	1799.7	1876.7	1953.7	2121.2	2166.5	2150.6	2119.0
1131.9	42.5°	1174.9	1245.1	1313.0	1387.7	1428.5	1532.6	1620.9	1596.0	1582.4
860.3	45°	892.0	955.3	1034.6	1091.2	1131.9	1193.0	1276.8	1285.9	1265.5
690.5	47.5°	715.4	772.0	835.4	905.5	953.1	991.6	1064.0	1091.2	1077.6
581.8	50°	606.7	649.7	710.8	781.0	833.1	867.0	930.4	959.9	950.8
486.7	52.5°	516.2	568.2	624.8	683.7	747.1	781.0	839.9	882.9	876.1
403.0	55°	427.9	495.8	554.6	613.5	685.9	719.9	772.0	828.6	817.2
341.8	57.5°	373.5	430.1	491.3	547.8	624.8	670.1	717.6	776.5	774.2
280.7	60°	312.4	369.0	436.9	484.5	566.0	629.3	672.4	733.5	738.0
212.8	62.5°	249.0	319.2	371.3	436.9	511.6	586.3	627.1	688.2	710.8
163.0	65°	185.6	262.6	321.5	387.1	457.3	541.1	577.3	638.4	661.0
117.7	67.5°	138.1	197.0	271.7	328.3	407.5	479.9	522.9	579.5	595.4
70.2	70°	104.1	151.7	226.4	276.2	357.7	416.5	459.6	502.6	522.9
47.5	72.5°	61.1	113.2	178.8	237.7	307.9	357.7	389.4	423.3	436.9
22.6	75°	43.0	86.0	140.4	197.0	249.0	289.8	319.2	348.6	362.2
11.3	77.5°	22.6	63.4	110.9	158.5	194.7	228.6	258.1	280.7	289.8
9.1	80°	13.6	45.3	90.6	124.5	149.4	178.8	208.3	224.1	221.9
6.8	82.5°	9.1	36.2	65.7	90.6	108.7	131.3	151.7	163.0	163.0
4.5	85°	6.8	24.9	45.3	70.2	72.4	90.6	95.1	106.4	108.7
4.5	87.5°	4.5	15.8	24.9	40.7	38.5	47.5	49.8	56.6	61.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
27349.4
27462.6
28230.0
28494.9
28082.9
27306.4
26050.0
23860.8
21187.2
18020.1
15147.3
12136.4
9480.9
6802.8
4434.9
2990.5
2123.5
1571.1
1263.2
1070.8
948.5
871.6
817.2
772.0
738.0
708.6
658.8
595.4
518.4
432.4
357.7
287.5
219.6
160.7
106.4
58.9
0.0

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