

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: P638269

Luminaire Tested: **IFLD-L-SA7E-827-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638269
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7E-827-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31919.2 lumens
Efficiency: N/A
Efficacy: 59.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 532.7
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



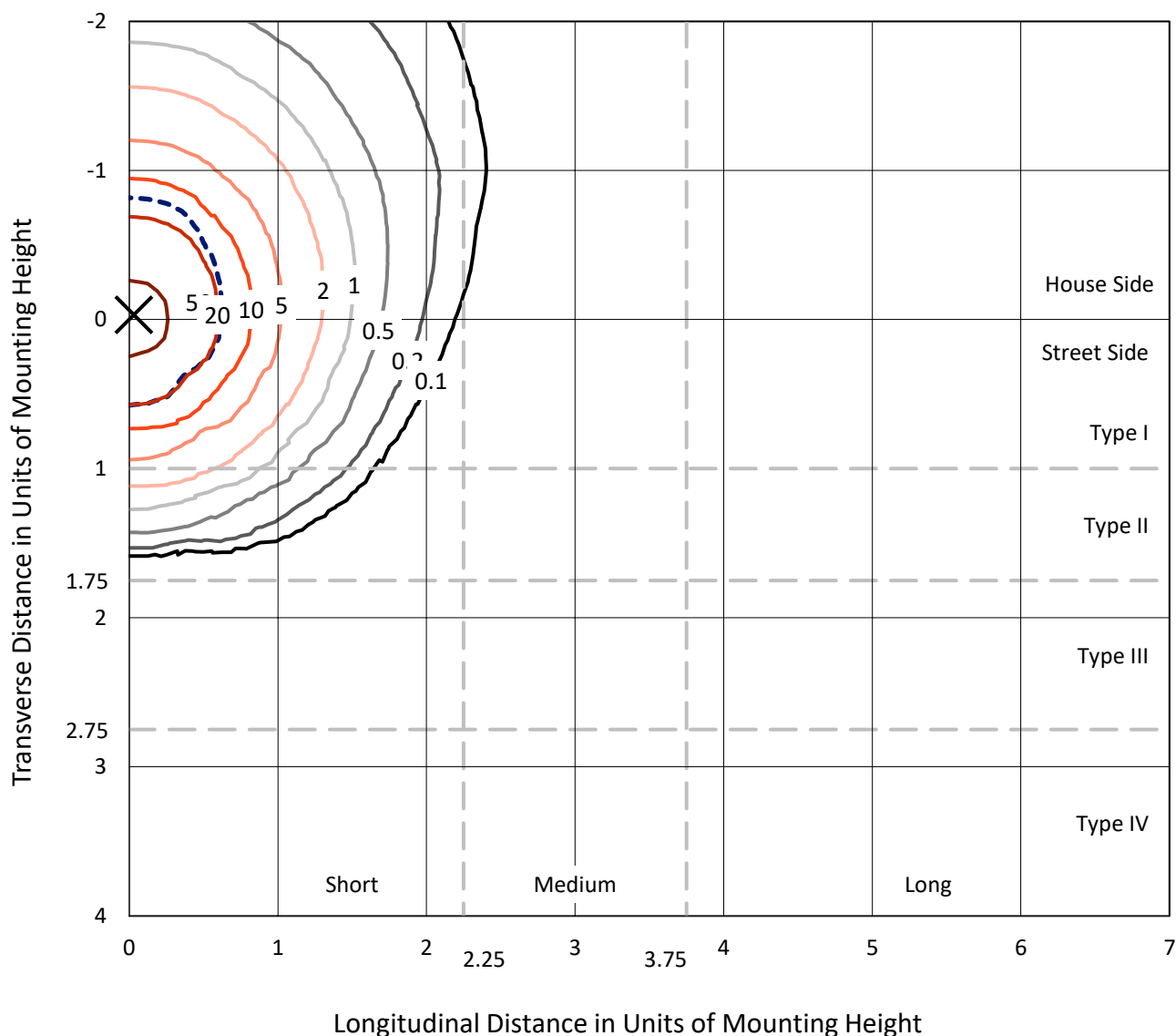
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

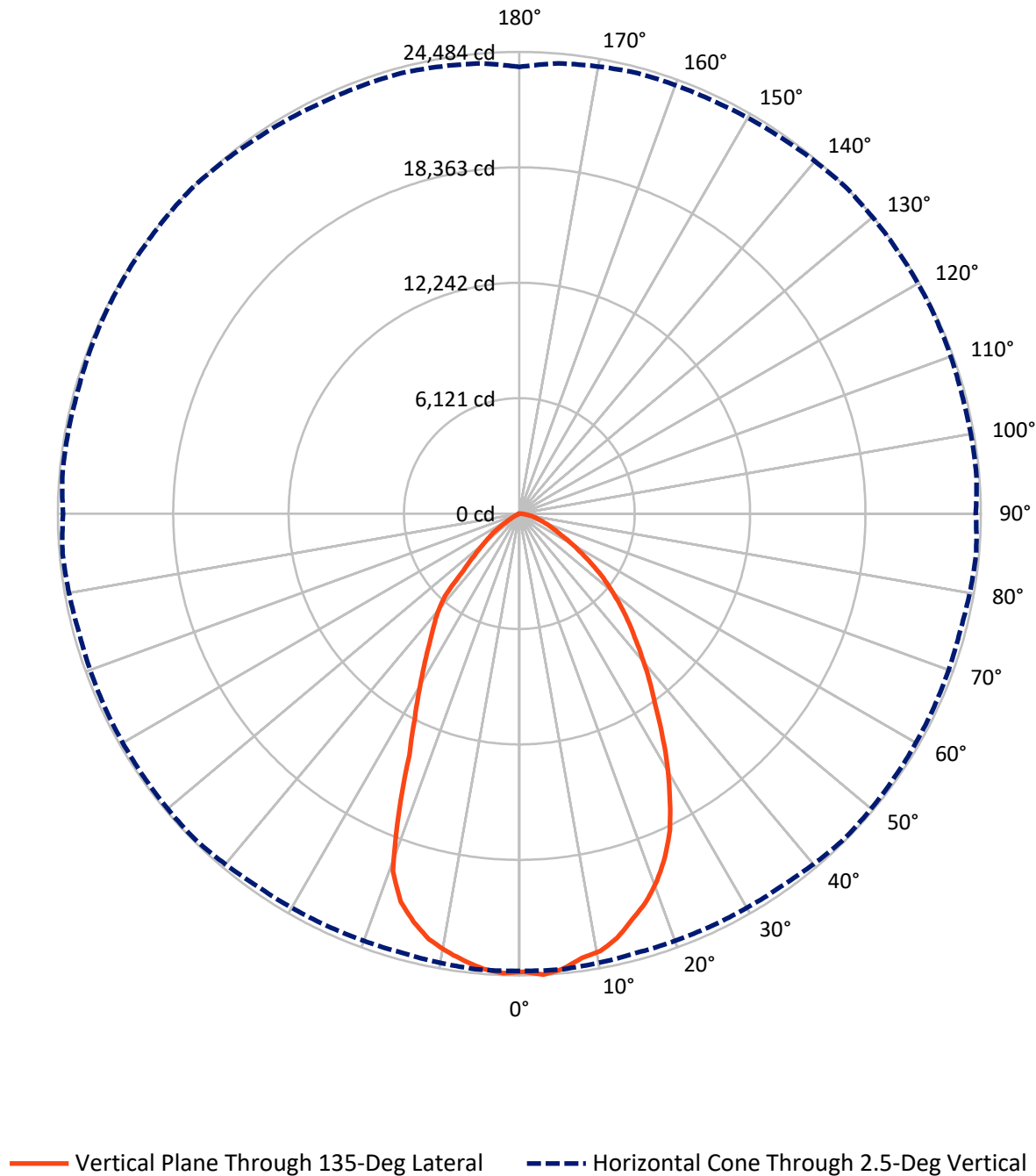


Based on 20 foot mounting height. Maximum calculated value = 60.7 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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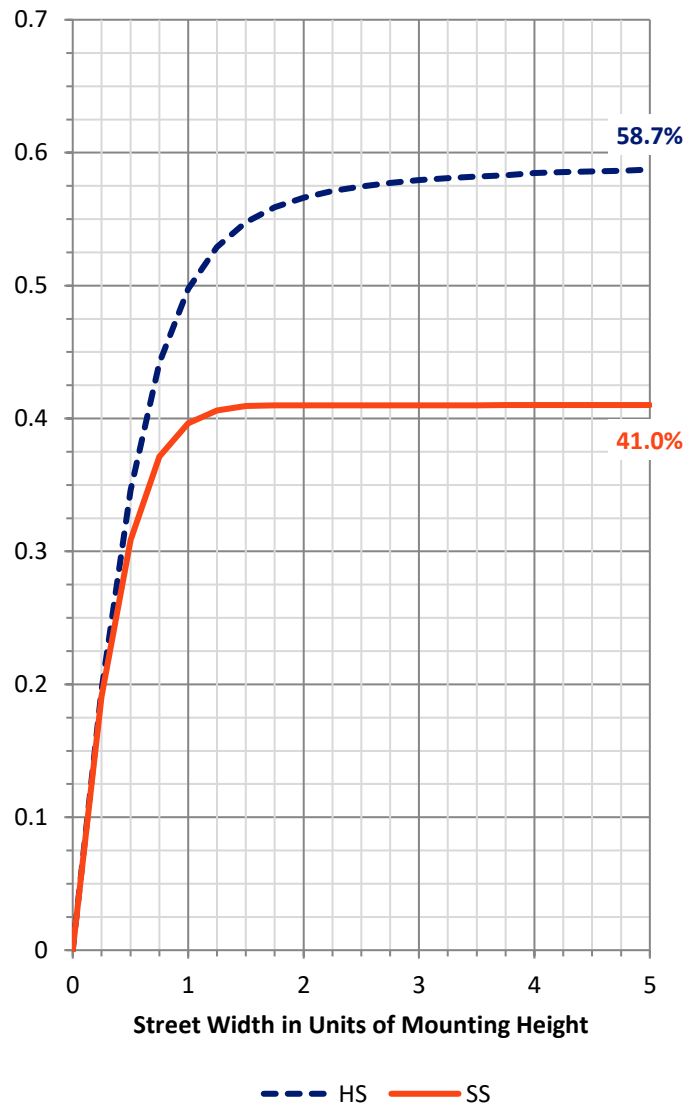
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18904.2	0.0	18904.2
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	13015.0	0.0	13015.0
	% Fixture	40.8	0.0	40.8
Total	Lumens	31919.2	0.0	31919.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2278.0	7.1
10°-20°	6108.7	19.1
20°-30°	7450.0	23.3
30°-40°	6801.7	21.3
40°-50°	4915.5	15.4
50°-60°	2683.9	8.4
60°-70°	1109.7	3.5
70°-80°	449.4	1.4
80°-90°	122.3	0.4
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°	31919.2	100.0
0°-180°	31919.2	100.0

Coefficient of Utilization



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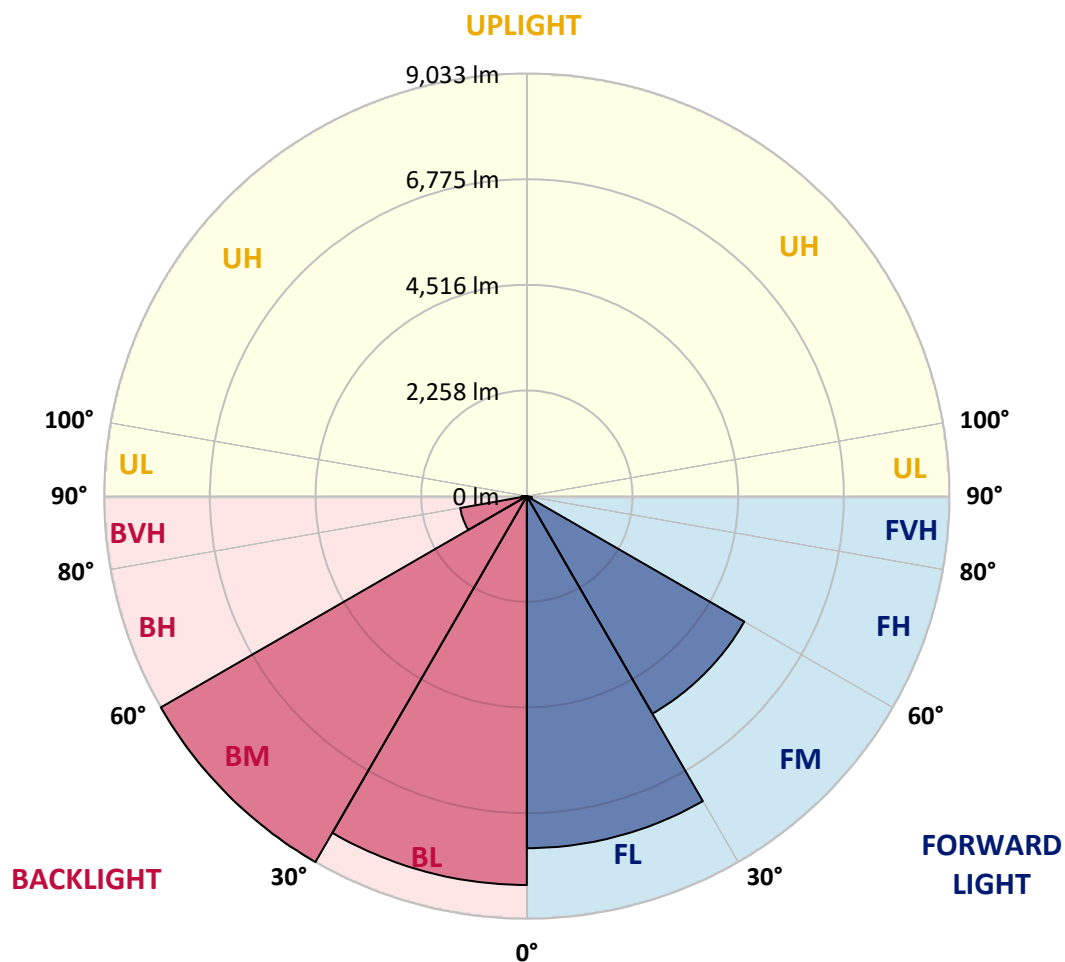
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	7524.5	23.6			
FM	(30°-60°)	5368.2	16.8			
FH	(60°-80°)	112.5	0.4			G0/660
FVH	(80°-90°)	9.8	0.0			G0/10
BL	(0°-30°)	8312.2	26.0	B5		
BM	(30°-60°)	9032.9	28.3	B5		
BH	(60°-80°)	1446.6	4.5	B3/2500		G3/2500
BVH	(80°-90°)	112.5	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	24290.4	24290.4	24290.4	24290.4	24290.4	24290.4	24290.4	24290.4	24290.4	24290.4
2.5°	24245.5	24276.9	24106.1	24124.1	24155.6	24384.8	24326.4	24272.4	24196.0	24326.4
5°	24214.0	24232.0	24052.2	23989.2	24016.2	24223.0	24034.2	24034.2	24016.2	23993.7
7.5°	23971.3	23980.3	23840.9	23728.5	23800.5	23894.9	23755.5	23822.9	23724.0	23800.5
10°	23607.2	23548.7	23382.4	23351.0	23431.9	23521.8	23427.4	23490.3	23400.4	23458.8
12.5°	23072.3	22982.4	22847.5	22807.1	22946.4	23067.8	22991.4	22955.4	22838.6	22982.4
15°	21009.1	20941.7	21247.4	21782.3	22263.2	22366.6	22285.7	22321.6	22078.9	22119.4
17.5°	17291.9	17166.0	17494.1	18761.7	20568.6	21521.5	21449.6	21215.9	20856.3	20937.2
20°	15714.1	15678.2	15642.2	15943.4	17206.5	20096.7	20195.6	19602.2	19089.8	18977.4
22.5°	14824.2	14810.7	14774.7	14842.1	15174.8	17031.2	18163.9	17615.5	17273.9	17242.4
25°	14010.6	13988.1	13880.2	13965.6	13965.6	14073.5	15525.4	15858.0	15556.8	15520.9
27.5°	13183.5	13143.1	13125.1	13165.5	12958.8	12230.6	12599.2	14221.8	14064.5	14073.5
30°	12289.0	12275.6	12226.1	12311.5	11673.2	10769.8	10536.0	12738.5	12770.0	12761.0
32.5°	10958.5	11017.0	11241.7	11336.1	10284.3	9538.2	9147.1	11021.5	11664.2	11650.8
35°	7960.5	7960.5	8693.1	10055.1	9012.3	8450.4	8239.1	9344.9	10572.0	10616.9
37.5°	6544.6	6567.0	6710.9	7331.2	7776.2	7578.4	7515.5	7866.1	9169.6	9241.5
40°	5888.3	5888.3	5888.3	5632.1	5618.6	6827.7	6791.8	6679.4	7920.0	8077.3
42.5°	5290.5	5304.0	5313.0	4665.7	4306.1	5901.8	5820.9	5650.1	6800.8	6985.1
45°	4674.7	4697.2	4724.1	3901.6	3744.2	4247.7	4926.4	4737.6	5695.0	5933.3
47.5°	2854.3	2890.2	3501.5	3308.2	3326.2	3276.8	4018.4	3987.0	4670.2	5007.3
50°	1928.3	1941.8	2000.2	2099.1	2854.3	2575.6	2845.3	3299.3	3546.5	4058.9
52.5°	1618.2	1640.6	1496.8	1362.0	1874.4	2013.7	1986.7	2449.7	2548.6	3182.4
55°	1137.2	1209.1	1141.7	1128.2	1065.3	1564.2	1505.8	1883.4	1946.3	2418.3
57.5°	116.9	134.8	233.7	840.5	696.7	885.5	1074.3	1379.9	1442.9	1784.5
60°	9.0	9.0	22.5	116.9	507.9	530.4	741.7	849.5	970.9	1245.1
62.5°	0.0	4.5	9.0	18.0	80.9	283.2	373.1	445.0	584.3	804.6
65°	0.0	0.0	4.5	13.5	18.0	107.9	143.8	233.7	319.1	498.9
67.5°	0.0	0.0	4.5	9.0	13.5	27.0	49.4	85.4	170.8	283.2
70°	0.0	0.0	4.5	9.0	13.5	22.5	36.0	53.9	76.4	152.8
72.5°	0.0	0.0	4.5	4.5	9.0	22.5	27.0	36.0	53.9	76.4
75°	0.0	0.0	4.5	4.5	13.5	27.0	22.5	27.0	36.0	49.4
77.5°	0.0	0.0	4.5	9.0	13.5	27.0	22.5	27.0	27.0	31.5
80°	0.0	0.0	4.5	9.0	18.0	31.5	27.0	27.0	22.5	22.5
82.5°	0.0	0.0	4.5	13.5	18.0	40.5	40.5	36.0	18.0	13.5
85°	0.0	0.0	9.0	18.0	27.0	44.9	44.9	36.0	13.5	9.0
87.5°	0.0	0.0	9.0	13.5	22.5	31.5	44.9	36.0	13.5	4.5
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°
24290.4	0°	24290.4	24290.4	24290.4	24290.4	24290.4	24290.4	24290.4	24290.4	24290.4
24214.0	2.5°	24335.4	24308.4	24398.3	24434.2	24483.7	24294.9	24178.0	24182.5	23966.8
23939.8	5°	24083.6	24088.1	24205.0	24196.0	24245.5	24142.1	24097.1	24020.7	23831.9
23593.7	7.5°	23764.5	23724.0	23836.4	23921.8	23796.0	23867.9	23764.5	23800.5	23688.1
23288.0	10°	23517.3	23422.9	23526.3	23584.7	23589.2	23517.3	23418.4	23324.0	23283.5
22811.6	12.5°	22968.9	22847.5	23022.8	23103.8	23090.3	22950.9	22838.6	22861.0	22730.7
21975.5	15°	22213.8	22218.3	22344.1	22420.5	22348.6	22317.1	22326.1	22272.2	22159.8
20820.3	17.5°	21058.6	21126.0	21458.6	21642.9	21683.4	21620.4	21589.0	21526.0	21413.7
18977.4	20°	19134.8	19539.3	20132.6	20703.5	20815.9	20797.9	20685.5	20658.5	20595.6
17152.5	22.5°	17444.7	17745.8	18433.6	19323.5	19782.0	19827.0	19692.1	19651.7	19584.3
15520.9	25°	15696.2	16019.8	16640.1	17606.5	18554.9	18748.2	18725.7	18604.4	18532.4
14073.5	27.5°	14221.8	14545.5	15107.3	15979.3	16995.2	17615.5	17673.9	17480.6	17476.1
12783.5	30°	12891.4	13336.3	13763.4	14473.6	15457.9	16388.4	16487.3	16352.4	16365.9
11601.3	32.5°	11848.5	12217.1	12581.2	13057.7	13875.7	14959.0	15345.6	15219.7	15170.3
10616.9	35°	10783.2	11035.0	11408.0	11844.0	12401.4	13475.7	14145.4	14051.0	14001.6
9286.4	37.5°	9569.6	10001.1	10270.8	10760.8	11196.8	12050.8	12994.7	12981.3	12877.9
8153.7	40°	8324.5	8778.5	9187.6	9682.0	10019.1	10697.8	11745.2	11740.7	11754.1
6980.6	42.5°	7196.3	7614.3	8108.8	8648.2	8971.8	9466.2	10590.0	10652.9	10729.3
6014.2	45°	6176.0	6553.6	7012.0	7668.3	8059.3	8342.5	9340.4	9628.1	9623.6
5151.1	47.5°	5259.0	5614.1	6000.7	6639.0	7137.9	7394.1	8221.2	8630.2	8603.2
4225.2	50°	4414.0	4728.6	5133.2	5596.1	6265.9	6490.6	7106.4	7645.8	7605.4
3366.7	52.5°	3551.0	3987.0	4328.6	4751.1	5456.8	5677.1	6153.5	6679.4	6647.9
2526.1	55°	2768.9	3191.4	3604.9	3969.0	4562.3	4890.4	5232.1	5771.4	5762.5
1977.8	57.5°	2094.6	2557.6	2948.6	3294.8	3766.7	4171.3	4445.4	4935.4	4998.3
1353.0	60°	1550.7	1905.8	2328.4	2714.9	3088.0	3506.0	3690.3	4171.3	4198.2
925.9	62.5°	1056.3	1447.4	1860.9	2211.5	2490.2	2921.7	3088.0	3483.5	3533.0
593.3	65°	732.7	984.4	1456.3	1708.1	2049.7	2418.3	2584.6	2899.2	2998.1
341.6	67.5°	485.4	701.2	1137.2	1366.4	1703.6	1955.3	2166.5	2422.7	2530.6
215.8	70°	265.2	516.9	813.6	1078.8	1370.9	1613.7	1820.4	2027.2	2121.6
98.9	72.5°	179.8	346.1	566.4	854.0	1105.7	1344.0	1528.3	1681.1	1685.6
58.4	75°	89.9	233.7	431.5	660.7	863.0	1096.8	1263.1	1353.0	1245.1
36.0	77.5°	53.9	170.8	350.6	530.4	701.2	885.5	979.9	1029.3	854.0
27.0	80°	31.5	121.4	274.2	422.5	485.4	651.8	741.7	755.1	570.9
18.0	82.5°	22.5	89.9	215.8	310.1	296.7	458.5	557.4	539.4	364.1
13.5	85°	13.5	62.9	134.8	193.3	179.8	301.2	323.6	332.6	211.3
9.0	87.5°	9.0	36.0	71.9	103.4	85.4	130.4	130.4	157.3	103.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
24290.4
23688.1
23787.0
23499.3
23103.8
22618.3
22047.5
21364.2
20451.8
19566.3
18456.0
17467.2
16298.5
15174.8
13934.2
12963.3
11754.1
10688.9
9632.6
8612.2
7641.3
6715.4
5784.9
4971.4
4238.7
3542.0
2975.6
2517.1
2085.6
1645.1
1164.2
822.6
534.9
337.1
193.3
89.9
0.0

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