

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: McGRAW-EDISON

Report Number: P954215

Luminaire Tested: **GALN-SB7C-740-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954215
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB7C-740-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43404 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

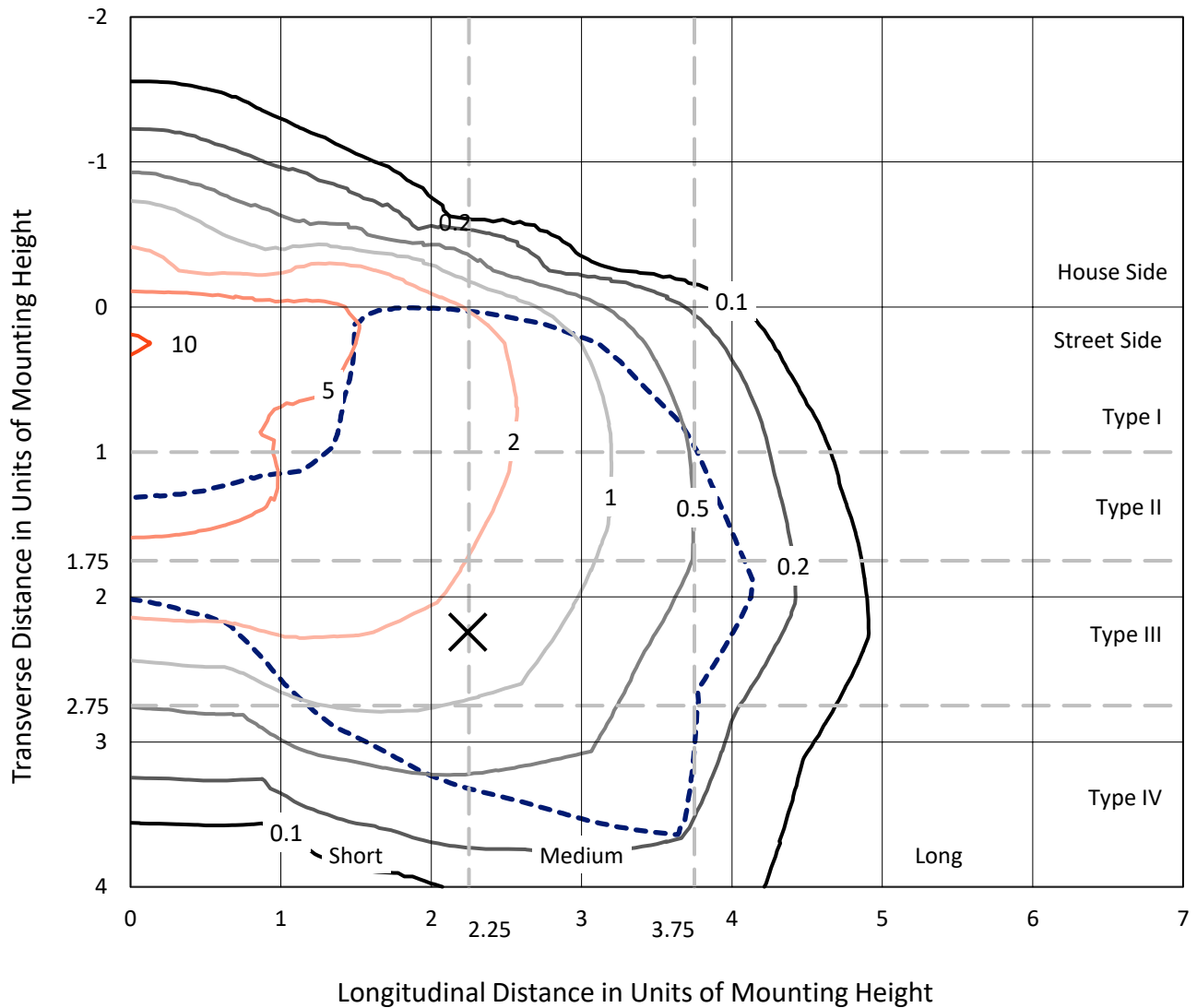
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

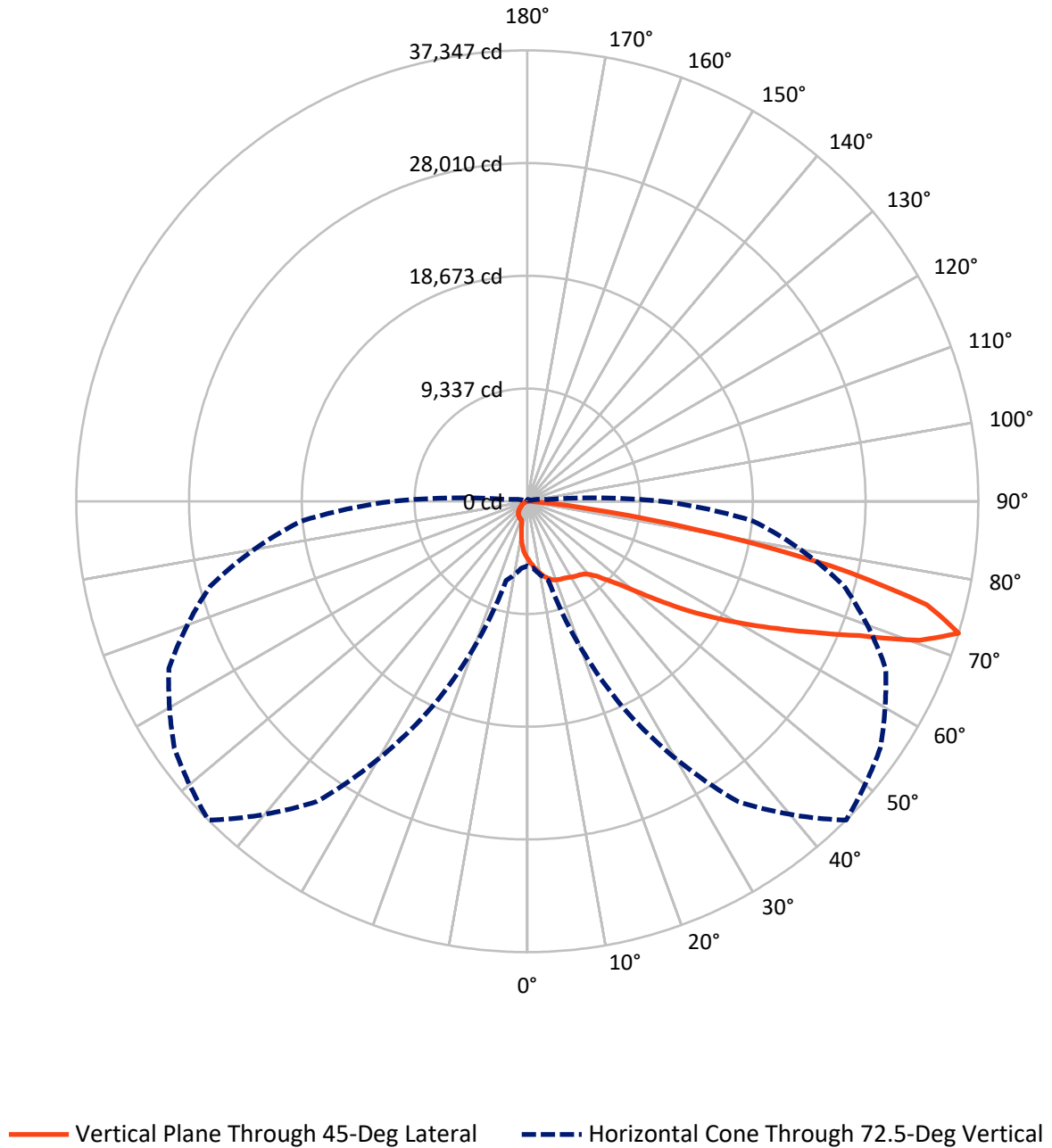
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4560.6	0.0	4560.6
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	38843.4	0.0	38843.4
	% Fixture	89.5	0.0	89.5
Total	Lumens	43404.0	0.0	43404.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	448.0	1.0
10°-20°	1309.4	3.0
20°-30°	2150.2	5.0
30°-40°	3049.5	7.0
40°-50°	5040.4	11.6
50°-60°	9054.6	20.9
60°-70°	12572.8	29.0
70°-80°	9119.9	21.0
80°-90°	659.3	1.5
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°	43404.0	100.0
0°-180°	43404.0	100.0

Coefficient of Utilization



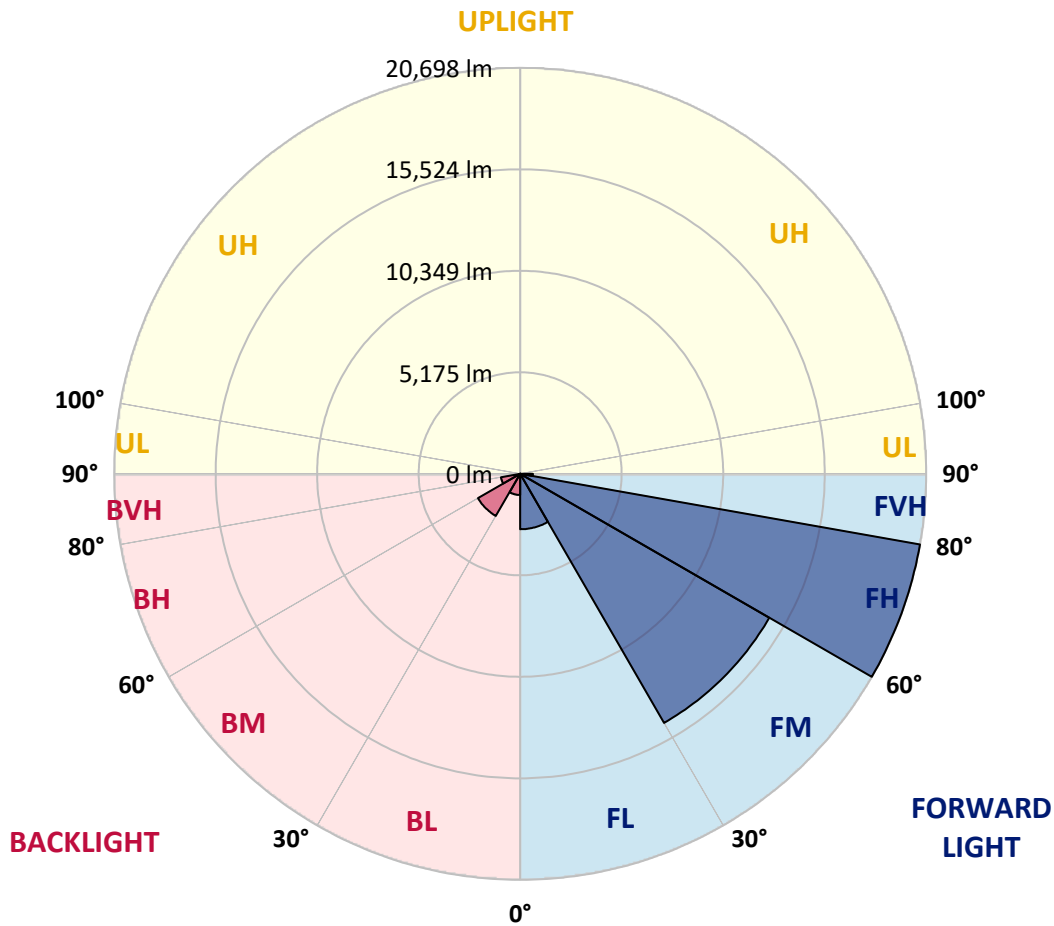
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2827.3	6.5			
FM (30°-60°)	14664.2	33.8			
FH (60°-80°)	20698.1	47.7			G5
FVH (80°-90°)	653.8	1.5			G4/750
BL (0°-30°)	1080.2	2.5	B3/2500		
BM (30°-60°)	2480.3	5.7	B2/2500		
BH (60°-80°)	994.5	2.3	B2/1000		G2/1000
BVH (80°-90°)	5.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	4755.0	4755.0	4755.0	4755.0	4755.0	4755.0	4755.0	4755.0	4755.0	4755.0
2.5°	5193.5	5202.4	5196.4	5160.9	5101.6	5069.0	5051.3	4992.0	4953.5	4885.4
5°	5670.4	5706.0	5685.3	5614.2	5501.6	5421.6	5397.9	5276.4	5166.8	5039.4
7.5°	6177.1	6194.8	6156.3	6064.5	5913.4	5777.1	5756.4	5587.5	5412.7	5217.2
10°	6615.5	6636.3	6577.0	6443.7	6271.9	6103.0	6073.4	5886.7	5679.3	5439.4
12.5°	6982.9	7003.6	6926.6	6766.6	6577.0	6402.2	6372.6	6177.1	5948.9	5682.3
15°	7261.4	7299.9	7196.2	7024.4	6819.9	6645.2	6630.3	6437.8	6215.6	5919.3
17.5°	7424.3	7462.8	7365.1	7157.7	6982.9	6834.8	6817.0	6657.0	6449.6	6165.2
20°	7451.0	7486.5	7382.8	7202.1	7057.0	6938.4	6929.6	6814.0	6662.9	6390.4
22.5°	7371.0	7415.4	7320.6	7175.5	7074.7	7012.5	7000.7	6935.5	6849.6	6618.5
25°	7288.0	7323.6	7252.5	7125.1	7071.8	7065.8	7074.7	7062.9	7045.1	6849.6
27.5°	7282.1	7320.6	7240.6	7119.2	7089.5	7151.8	7160.6	7216.9	7231.7	7059.9
30°	7332.5	7359.1	7282.1	7154.7	7139.9	7282.1	7285.1	7385.8	7409.5	7237.7
32.5°	7442.1	7471.7	7394.7	7208.0	7187.3	7385.8	7394.7	7528.0	7566.5	7427.3
35°	7699.8	7735.4	7646.5	7356.2	7282.1	7483.6	7510.2	7667.3	7744.3	7628.7
37.5°	8342.7	8239.0	8117.6	7655.4	7498.4	7637.6	7682.1	7865.7	8002.0	7868.7
40°	9939.6	9613.7	9234.5	8165.0	7877.6	7966.5	8002.0	8185.7	8372.4	8242.0
42.5°	12336.3	11951.2	11340.9	9338.2	8449.4	8493.8	8520.5	8680.5	8944.1	8840.4
45°	14472.4	14333.1	13711.0	11340.9	9518.9	9299.7	9332.2	9415.2	9803.3	9764.8
47.5°	16113.7	16033.7	15553.7	13639.9	11326.1	10286.2	10378.0	10416.6	10976.5	11112.8
50°	17375.7	17346.1	16916.5	15684.1	13687.3	11740.9	11773.4	11690.5	12528.9	12866.6
52.5°	18566.7	18667.5	18350.5	17583.1	16208.5	13645.8	13639.9	13248.8	14380.5	14890.1
55°	19642.2	19677.7	19710.3	19520.7	18744.5	15814.5	15758.2	15118.2	16528.4	17055.8
57.5°	20652.4	20667.2	20957.6	21345.7	21384.2	18143.1	18039.4	17272.1	18874.8	19251.1
60°	21330.8	21399.0	22012.2	23090.6	23561.7	20545.7	20489.5	19707.3	21262.7	21437.5
62.5°	20353.2	20767.9	22314.4	24453.4	25617.8	23209.1	23182.5	22447.8	23775.0	23632.8
65°	16475.1	17177.3	19896.9	25374.8	27635.3	26183.6	26222.1	25440.0	26355.4	25893.3
67.5°	11524.6	12265.2	15482.6	25448.9	29889.8	29676.5	29898.7	28672.2	29095.9	28058.9
70°	7969.4	8351.6	10446.2	23855.0	31646.7	34487.8	34481.9	32642.1	31821.5	29045.5
72.5°	5359.4	5557.9	6784.4	18925.2	30355.0	37346.8	37174.9	35675.8	32739.9	27164.2
75°	2260.5	2405.6	3140.4	10635.8	24015.0	34167.9	33702.7	31528.2	29089.9	21390.1
77.5°	717.0	779.2	1238.4	3807.0	13228.1	25682.9	25191.1	19689.6	19497.0	10730.6
80°	340.7	397.0	696.2	1528.7	5205.3	13968.7	13900.6	8932.3	8387.2	2897.4
82.5°	148.1	174.8	385.1	817.7	2328.6	4983.1	5083.9	3039.6	2515.3	1099.1
85°	47.4	62.2	177.8	376.3	983.6	1238.4	1223.6	722.9	1013.2	598.4
87.5°	0.0	0.0	59.3	85.9	100.7	71.1	80.0	62.2	281.4	165.9
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):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4755.0	0°	4755.0	4755.0	4755.0	4755.0	4755.0	4755.0	4755.0	4755.0	4755.0	4755.0
4814.3	2.5°	4778.7	4731.3	4648.3	4571.3	4503.2	4435.0	4393.6	4334.3	4328.4	4328.4
4891.3	5°	4811.3	4734.3	4586.1	4429.1	4248.4	4076.6	3904.7	3738.8	3685.5	3647.0
5015.7	7.5°	4906.1	4784.6	4550.6	4251.4	3907.7	3531.4	3267.8	2983.4	2873.7	2814.5
5181.6	10°	5042.4	4876.5	4521.0	3996.6	3439.6	2927.1	2550.8	2242.7	2124.2	2073.8
5362.3	12.5°	5193.5	4989.0	4467.6	3679.6	2927.1	2313.8	1946.4	1804.2	1786.5	1786.5
5578.6	15°	5374.2	5125.3	4375.8	3306.3	2390.8	1830.9	1700.5	1706.5	1724.2	1736.1
5789.0	17.5°	5560.8	5270.5	4230.6	2888.6	1916.8	1647.2	1650.2	1659.1	1673.9	1685.7
6017.1	20°	5762.3	5415.7	4038.0	2444.2	1644.3	1593.9	1602.8	1611.7	1623.5	1629.4
6230.4	22.5°	5978.6	5551.9	3809.9	2008.7	1552.4	1549.4	1552.4	1561.3	1576.1	1576.1
6479.2	25°	6209.6	5703.0	3549.2	1691.7	1505.0	1505.0	1510.9	1516.9	1528.7	1528.7
6719.2	27.5°	6446.7	5842.3	3273.7	1525.7	1463.5	1460.6	1460.6	1469.5	1475.4	1478.3
6956.2	30°	6707.4	6005.2	2998.2	1490.2	1430.9	1416.1	1407.2	1413.2	1419.1	1422.1
7205.1	32.5°	6974.0	6162.2	2752.3	1505.0	1398.4	1371.7	1342.1	1336.1	1336.1	1348.0
7462.8	35°	7270.3	6334.1	2562.7	1555.4	1380.6	1306.5	1259.1	1232.4	1235.4	1253.2
7770.9	37.5°	7625.8	6541.5	2423.4	1599.8	1368.7	1232.4	1155.4	1122.8	1102.1	1122.8
8194.6	40°	8090.9	6846.6	2322.7	1635.4	1353.9	1146.5	1042.8	989.5	951.0	962.9
8852.3	42.5°	8775.3	7326.6	2284.2	1638.3	1321.3	1045.8	927.3	856.2	799.9	802.9
9841.8	45°	9735.2	8085.0	2482.7	1599.8	1250.2	936.2	805.8	711.0	675.5	666.6
11320.2	47.5°	11050.6	9190.0	2941.9	1519.8	1146.5	829.5	687.3	607.3	580.7	565.9
13260.7	50°	12813.3	10609.1	3451.4	1430.9	1042.8	728.8	589.6	539.2	521.4	506.6
15562.6	52.5°	14857.5	12049.0	3869.2	1342.1	939.1	639.9	527.3	497.7	482.9	471.1
17784.6	55°	16732.9	13041.4	3845.5	1247.3	838.4	568.8	482.9	465.1	447.4	435.5
19698.4	57.5°	17900.1	13180.7	3170.0	1143.6	722.9	512.5	441.4	429.6	408.8	394.0
21354.5	60°	18436.4	12386.7	2222.0	1007.3	607.3	459.2	397.0	391.1	364.4	343.7
22921.8	62.5°	18534.1	10911.3	1481.3	838.4	506.6	408.8	352.6	343.7	308.1	272.6
24195.7	65°	18137.1	8801.9	1025.1	654.7	432.5	355.5	302.2	284.4	245.9	210.3
24497.9	67.5°	16881.0	6180.0	714.0	471.1	367.4	281.4	240.0	234.0	204.4	174.8
22957.3	70°	14579.0	3522.6	477.0	352.6	290.3	192.6	189.6	195.5	165.9	142.2
18756.3	72.5°	11178.0	1611.7	296.3	257.7	198.5	130.4	151.1	154.1	127.4	106.7
11702.3	75°	6580.0	690.3	186.6	165.9	100.7	85.9	109.6	112.6	85.9	68.1
4278.0	77.5°	2239.7	260.7	118.5	97.8	50.4	47.4	71.1	71.1	47.4	26.7
859.2	80°	509.6	97.8	59.3	38.5	23.7	20.7	23.7	20.7	11.9	3.0
263.7	82.5°	145.2	38.5	23.7	14.8	8.9	8.9	3.0	0.0	0.0	0.0
91.8	85°	41.5	17.8	5.9	5.9	0.0	0.0	0.0	0.0	0.0	0.0
32.6	87.5°	17.8	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	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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<u>180°</u>
4755.0
4343.2
3664.8
2823.4
2073.8
1786.5
1736.1
1685.7
1632.4
1582.0
1531.7
1481.3
1428.0
1356.9
1262.1
1116.9
956.9
791.0
654.7
557.0
503.6
468.1
429.6
391.1
337.7
254.8
198.5
165.9
130.4
94.8
59.3
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