

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: P943214

Luminaire Tested: **GALN-SB7C-830-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943214
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7C-830-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34946 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

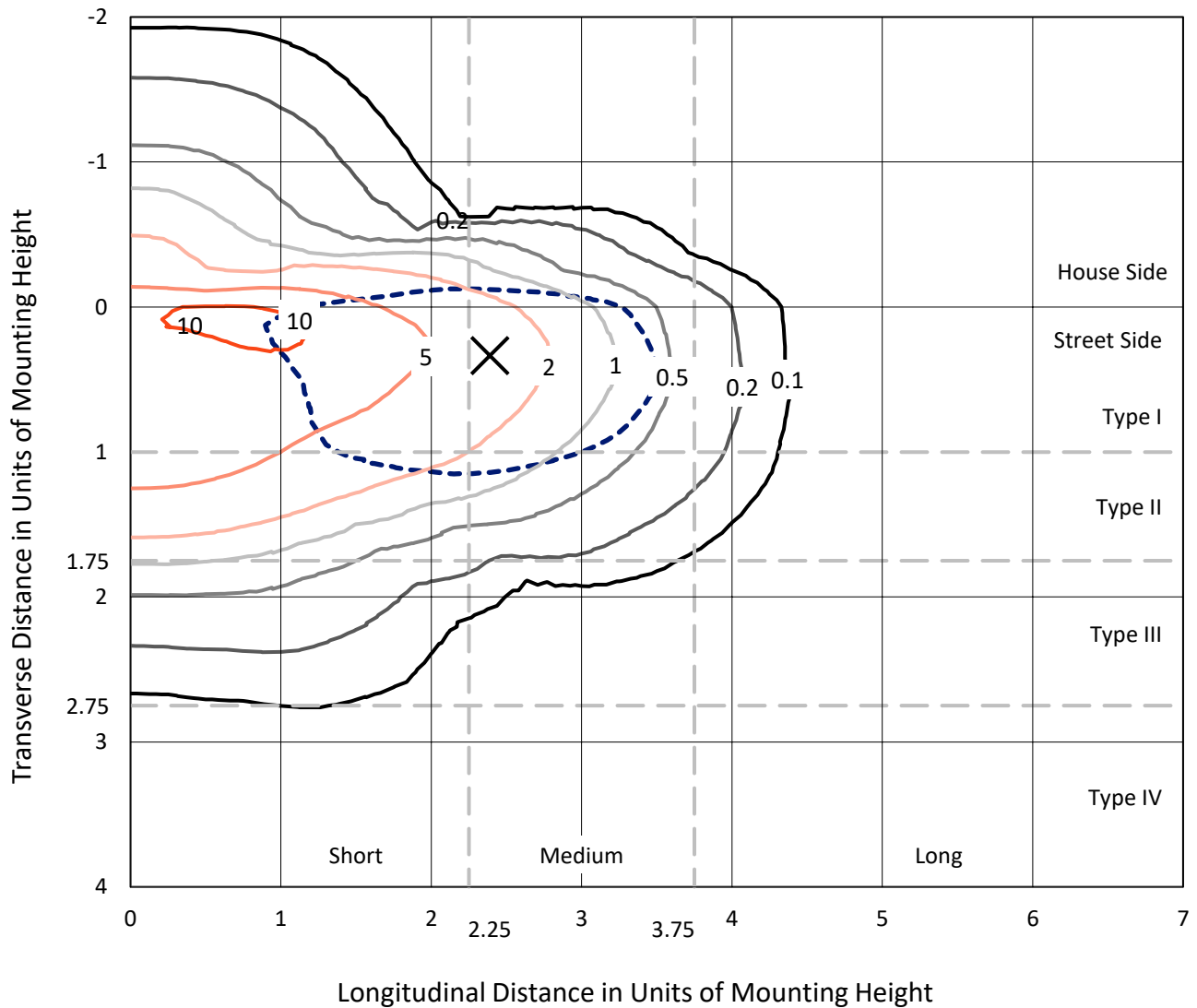
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

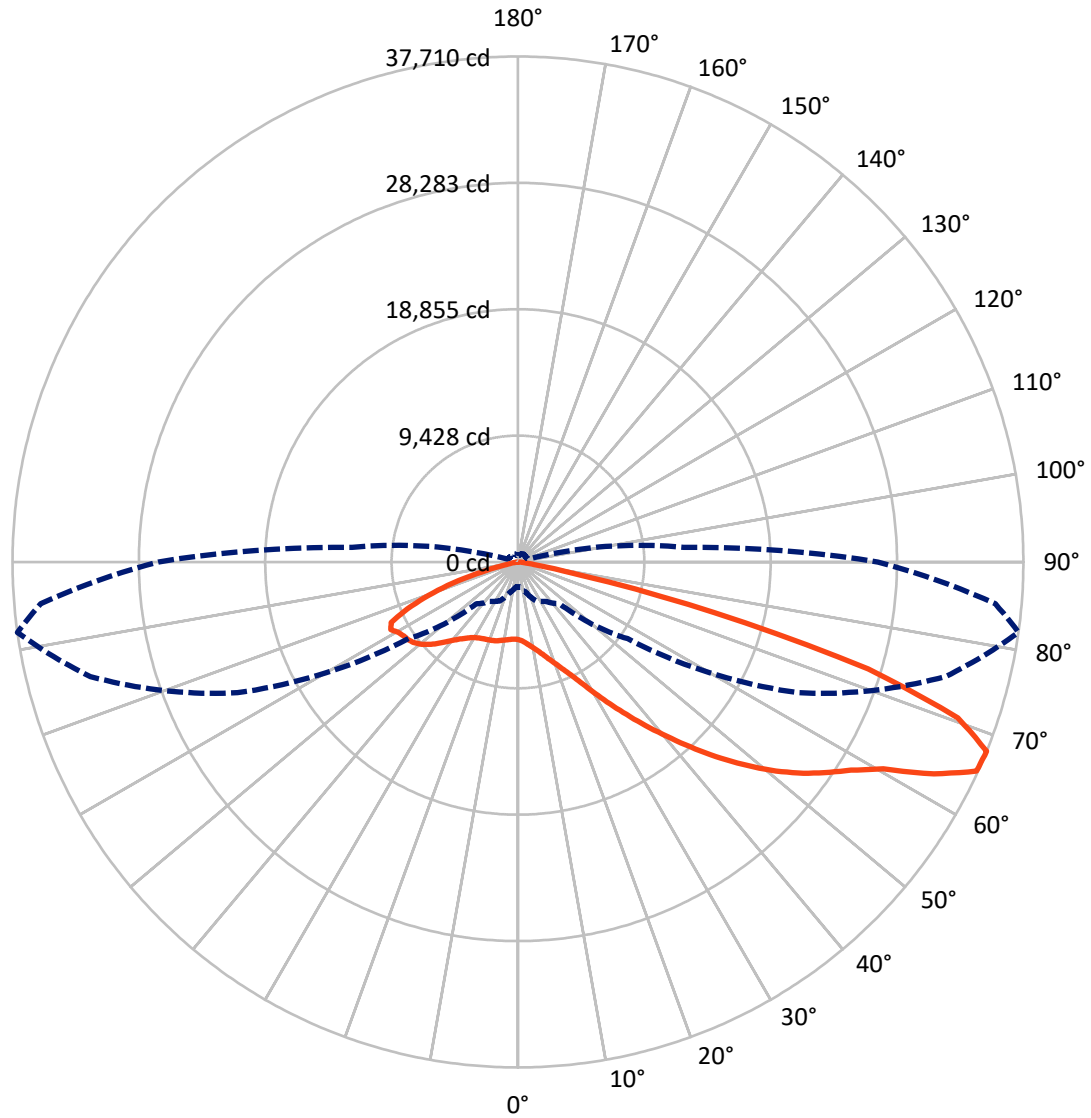
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6330.2	0.0	6330.2
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	28615.8	0.0	28615.8
	% Fixture	81.9	0.0	81.9
Total	Lumens	34946.0	0.0	34946.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	515.8	1.5
10°-20°	1340.3	3.8
20°-30°	2146.8	6.1
30°-40°	3796.2	10.9
40°-50°	6651.3	19.0
50°-60°	8870.9	25.4
60°-70°	8258.4	23.6
70°-80°	3169.6	9.1
80°-90°	196.9	0.6
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°	34946.0	100.0
0°-180°	34946.0	100.0

Coefficient of Utilization



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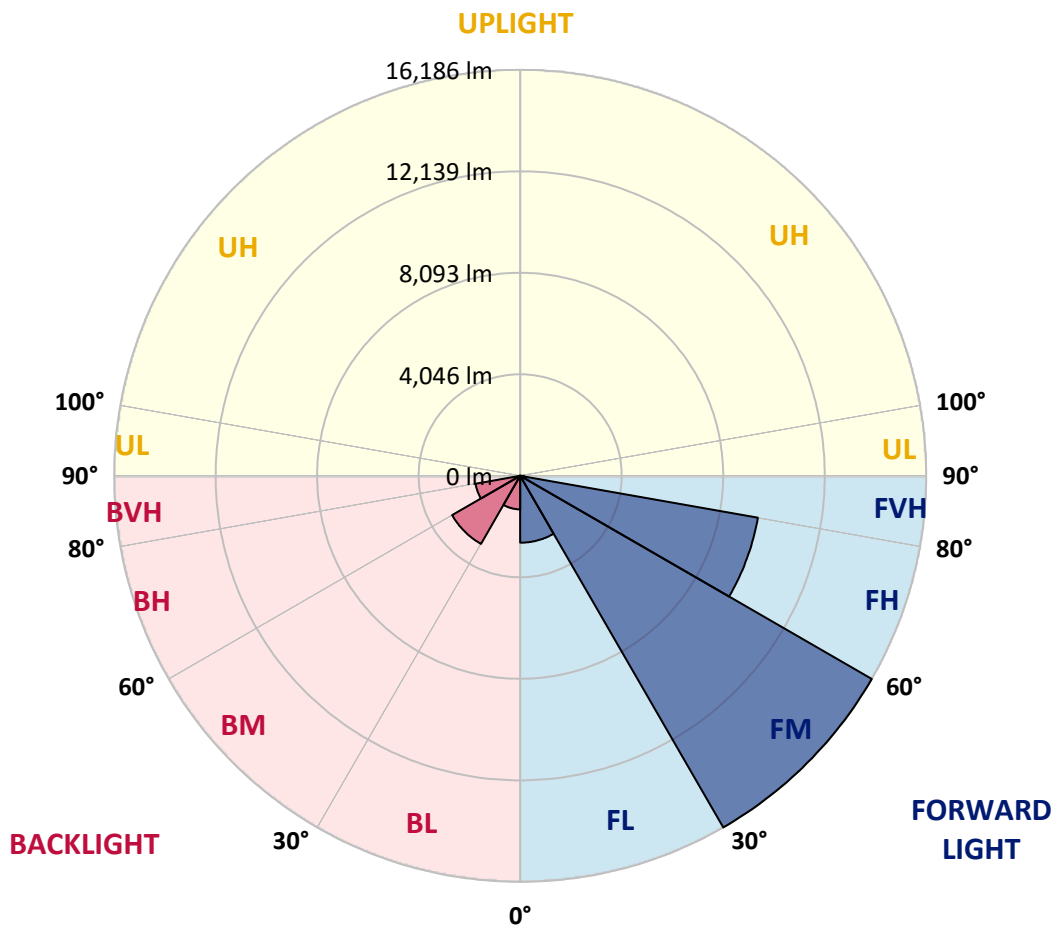
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2666.0	7.6			
FM (30°-60°)	16185.6	46.3			
FH (60°-80°)	9621.2	27.5			G4/12000
FVH (80°-90°)	143.1	0.4			G2/225
BL (0°-30°)	1336.9	3.8	B3/2500		
BM (30°-60°)	3132.8	9.0	B3/5000		
BH (60°-80°)	1806.8	5.2	B3/2500		G3/2500
BVH (80°-90°)	53.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	5789.4	5789.4	5789.4	5789.4	5789.4	5789.4	5789.4	5789.4	5789.4	5789.4
2.5°	6119.0	6154.2	6134.1	6124.0	6106.4	6081.2	6061.1	5998.2	5932.8	5890.0
5°	6242.3	6277.5	6275.0	6285.0	6297.6	6305.2	6300.1	6229.7	6136.6	6063.6
7.5°	6136.6	6176.8	6209.5	6259.9	6347.9	6441.0	6486.3	6471.2	6375.6	6275.0
10°	5837.2	5879.9	5957.9	6076.2	6262.4	6463.7	6632.2	6710.2	6649.8	6539.1
12.5°	5288.7	5331.5	5484.9	5741.6	6053.6	6403.3	6725.3	6934.2	6949.3	6838.6
15°	4672.3	4715.0	4878.6	5200.6	5676.1	6237.2	6775.7	7170.7	7304.0	7208.4
17.5°	4289.8	4327.6	4450.8	4710.0	5205.7	5905.1	6758.0	7422.3	7726.7	7651.2
20°	4174.1	4206.8	4264.7	4445.8	4858.4	5560.4	6642.3	7658.8	8182.1	8139.3
22.5°	4297.4	4327.6	4345.2	4425.7	4684.8	5334.0	6496.4	7900.3	8710.5	8715.5
25°	4581.7	4611.9	4591.7	4642.1	4755.3	5263.5	6441.0	8184.6	9374.7	9430.1
27.5°	5049.7	5052.2	5004.4	5001.9	5019.5	5369.2	6498.9	8489.1	10212.5	10315.7
30°	5988.1	5950.4	5766.7	5568.0	5477.4	5686.2	6659.9	8848.9	11201.3	11385.0
32.5°	7434.8	7379.5	7042.3	6566.8	6088.8	6197.0	6949.3	9259.0	12278.2	12610.3
35°	9004.8	8989.8	8637.5	7930.5	7095.2	6924.1	7419.8	9797.4	13453.2	13981.5
37.5°	10464.1	10456.6	10255.3	9422.5	8406.0	7938.1	8174.6	10501.9	14711.2	15476.1
40°	11797.6	11820.3	11619.0	10874.3	9850.2	9238.8	9201.1	11372.4	16110.1	17103.9
42.5°	12950.0	12975.1	12771.3	12220.3	11276.8	10678.0	10461.6	12439.2	17476.3	18852.6
45°	13732.5	13888.4	13858.3	13418.0	12741.1	12119.7	11976.3	13777.7	19033.7	20706.9
47.5°	13953.9	14097.3	14323.7	14384.1	13971.5	13360.1	13531.2	15390.5	20608.7	22563.7
50°	13407.9	13541.2	14011.7	14638.2	14925.1	14736.3	15043.3	17119.0	22221.5	24415.5
52.5°	12331.0	12466.9	13060.7	14052.0	15221.9	15815.7	16560.5	18822.4	23784.0	26169.2
55°	10773.6	10917.0	11679.4	12801.5	14655.8	16261.1	17826.0	20523.2	25215.6	27746.7
57.5°	8655.1	8760.8	9553.3	11123.3	13231.8	15818.2	18759.5	22380.0	26564.2	29296.6
60°	5640.9	5734.0	6654.9	8406.0	10871.7	14338.8	18945.7	24450.7	28355.6	31311.9
62.5°	3751.4	3814.3	4360.3	5646.0	7656.3	11498.2	17856.2	26103.7	30982.3	34819.2
65°	2573.9	2636.8	3182.8	4078.5	4946.5	7605.9	14723.8	25884.8	33362.5	37604.5
67.5°	1836.7	1889.5	2352.5	3197.9	3580.3	4418.1	9981.1	23087.0	33020.3	37710.2
70°	1315.9	1346.1	1728.5	2490.9	2845.6	2654.4	5550.3	17657.5	28911.6	34821.8
72.5°	920.9	930.9	1200.1	1897.1	2292.1	1937.3	2641.8	11772.5	21866.8	27331.6
75°	624.0	636.6	807.6	1391.4	1839.2	1479.4	1398.9	6312.7	12836.8	15128.8
77.5°	382.4	387.5	520.8	951.1	1376.3	1127.2	900.7	2674.5	4966.6	4876.1
80°	216.4	216.4	332.1	591.3	938.5	727.1	631.5	1137.2	1572.5	1381.3
82.5°	120.8	123.3	241.5	367.3	621.5	430.2	347.2	525.8	679.3	601.3
85°	50.3	55.4	148.4	173.6	296.9	213.9	140.9	221.4	251.6	223.9
87.5°	5.0	7.5	45.3	32.7	35.2	42.8	20.1	42.8	35.2	35.2
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°
5789.4	0°	5789.4	5789.4	5789.4	5789.4	5789.4	5789.4	5789.4	5789.4	5789.4	5789.4
5874.9	2.5°	5827.1	5789.4	5693.8	5583.1	5437.1	5366.7	5271.1	5205.7	5150.3	5155.3
6020.8	5°	5940.3	5844.7	5630.9	5364.2	5032.0	4795.5	4543.9	4370.3	4229.4	4199.2
6222.1	7.5°	6096.3	5945.4	5570.5	5089.9	4528.8	4103.6	3723.7	3479.7	3306.1	3250.7
6466.2	10°	6297.6	6078.7	5492.5	4745.2	3937.6	3396.6	2989.0	2797.8	2679.6	2639.3
6753.0	12.5°	6531.6	6232.2	5389.3	4325.0	3328.7	2807.9	2548.7	2453.1	2415.4	2402.8
7105.2	15°	6826.0	6423.4	5233.3	3826.9	2812.9	2448.1	2337.4	2324.8	2329.8	2324.8
7527.9	17.5°	7175.7	6632.2	4979.2	3313.6	2465.7	2264.4	2224.2	2234.2	2246.8	2244.3
8001.0	20°	7558.1	6838.6	4654.6	2858.2	2229.2	2133.6	2110.9	2121.0	2131.1	2126.0
8546.9	22.5°	7993.4	7060.0	4294.9	2503.4	2070.7	2012.8	1987.7	1990.2	1990.2	1980.1
9238.8	25°	8514.2	7304.0	3917.4	2251.8	1949.9	1904.6	1874.4	1864.4	1849.3	1819.1
10079.2	27.5°	9135.7	7563.2	3555.1	2075.7	1854.3	1811.5	1776.3	1751.2	1713.4	1663.1
11088.1	30°	9835.1	7877.7	3248.2	1965.0	1778.8	1736.1	1695.8	1658.1	1602.7	1539.8
12248.0	32.5°	10657.9	8214.8	3024.3	1892.0	1710.9	1665.6	1617.8	1572.5	1512.1	1449.2
13551.3	35°	11639.1	8622.4	2893.4	1841.7	1658.1	1597.7	1544.8	1494.5	1449.2	1393.9
14967.8	37.5°	12703.4	9055.2	2853.2	1816.6	1622.8	1529.7	1469.4	1434.1	1429.1	1396.4
16500.1	40°	13868.3	9568.4	2883.4	1801.5	1585.1	1464.3	1398.9	1391.4	1403.9	1346.1
18138.0	42.5°	15101.2	10177.3	2933.7	1783.9	1532.3	1398.9	1336.0	1336.0	1325.9	1245.4
19869.0	45°	16434.7	10879.3	2984.0	1741.1	1469.4	1333.5	1285.7	1268.1	1225.3	1147.3
21610.1	47.5°	17778.2	11593.8	3021.7	1663.1	1393.9	1278.1	1235.4	1195.1	1132.2	1061.8
23318.5	50°	19053.8	12235.4	2981.5	1547.4	1308.3	1225.3	1180.0	1124.7	1056.7	1008.9
24936.3	52.5°	20193.6	12791.5	2810.4	1411.5	1217.8	1170.0	1129.7	1071.8	1016.5	966.2
26395.6	55°	21184.9	13241.8	2508.5	1283.2	1137.2	1122.1	1081.9	1008.9	933.4	890.7
27842.3	57.5°	22136.0	13584.0	2131.1	1177.5	1064.3	1069.3	1008.9	943.5	873.1	827.8
29792.2	60°	23401.5	14041.9	1748.6	1079.4	986.3	1001.4	936.0	888.2	800.1	742.2
33136.0	62.5°	25424.4	14754.0	1388.8	958.6	895.7	900.7	873.1	815.2	709.5	641.6
35614.3	65°	27029.6	14492.3	1094.5	827.8	792.5	800.1	800.1	737.2	624.0	546.0
35747.7	67.5°	26848.5	12409.0	873.1	699.5	694.4	699.5	717.1	664.2	553.5	490.6
33025.3	70°	24732.5	9870.4	699.5	581.2	603.8	591.3	641.6	606.4	498.2	435.3
25603.1	72.5°	20181.0	7110.3	533.4	480.6	462.9	483.1	578.7	546.0	415.1	344.7
13561.4	75°	11792.6	3794.2	397.5	379.9	334.6	402.6	513.3	465.5	317.0	254.1
4156.5	77.5°	3839.5	1323.4	291.9	279.3	249.1	324.6	437.8	392.5	259.2	201.3
1217.8	80°	1029.1	400.0	198.8	183.7	161.0	241.5	347.2	312.0	186.2	130.8
523.3	82.5°	412.6	168.6	115.7	103.2	88.1	166.1	274.2	251.6	138.4	83.0
163.5	85°	133.3	55.4	42.8	32.7	40.3	103.2	163.5	171.1	98.1	42.8
25.2	87.5°	17.6	7.5	7.5	10.1	7.5	17.6	50.3	47.8	27.7	5.0
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>
5789.4
5105.0
4131.3
3195.3
2609.1
2395.3
2322.3
2239.3
2123.5
1975.1
1814.1
1658.1
1534.8
1451.7
1388.8
1393.9
1348.6
1245.4
1144.8
1059.2
1001.4
961.1
885.6
822.7
734.7
636.6
538.4
480.6
427.7
337.1
246.6
193.7
128.3
83.0
32.7
0.0
0.0

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