

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: P943884

Luminaire Tested: **GALN-SB8C-827-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943884
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-SB8C-827-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 2700K, 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: 38453 lumens
Efficiency: N/A
Efficacy: 96.2 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

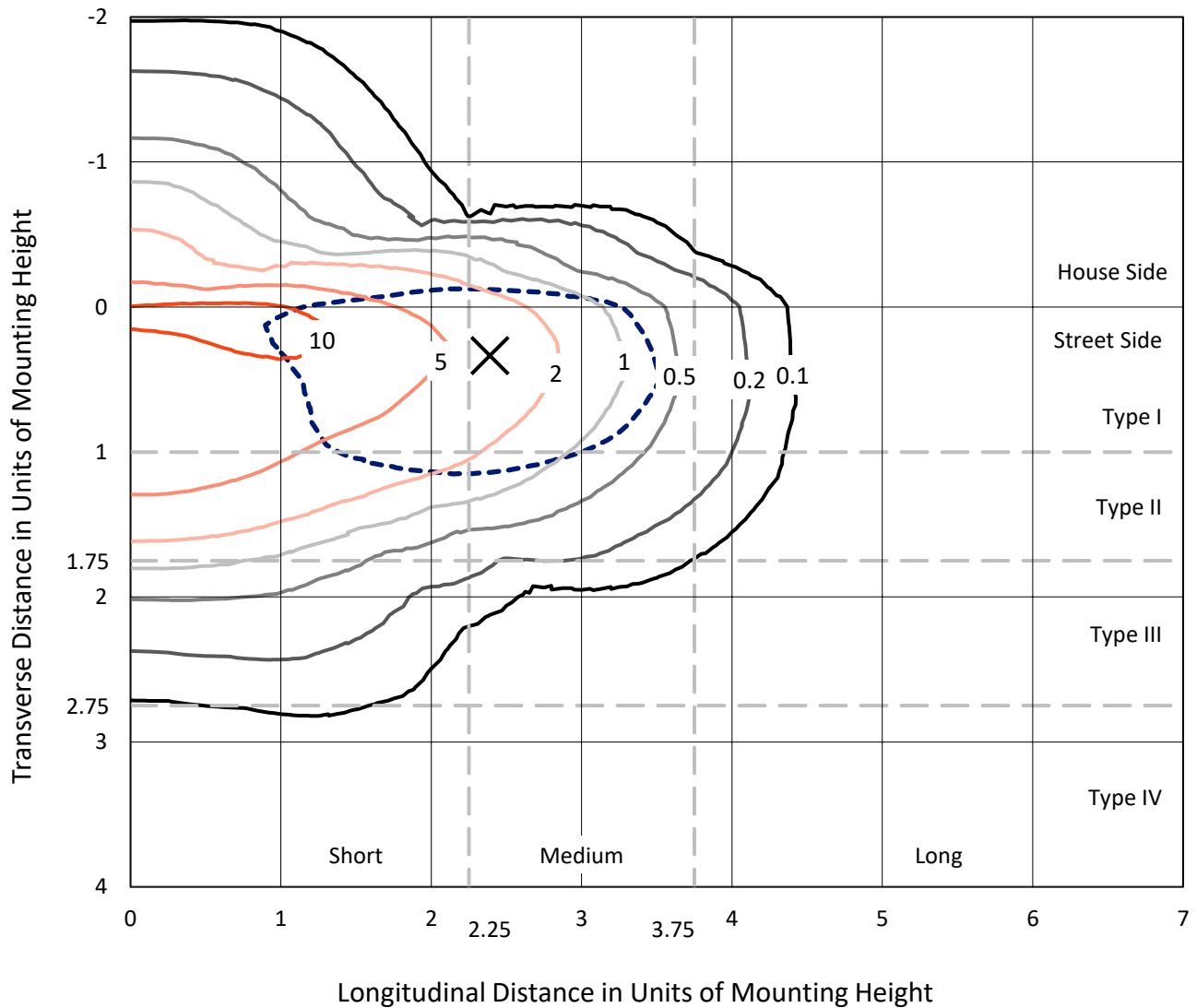
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

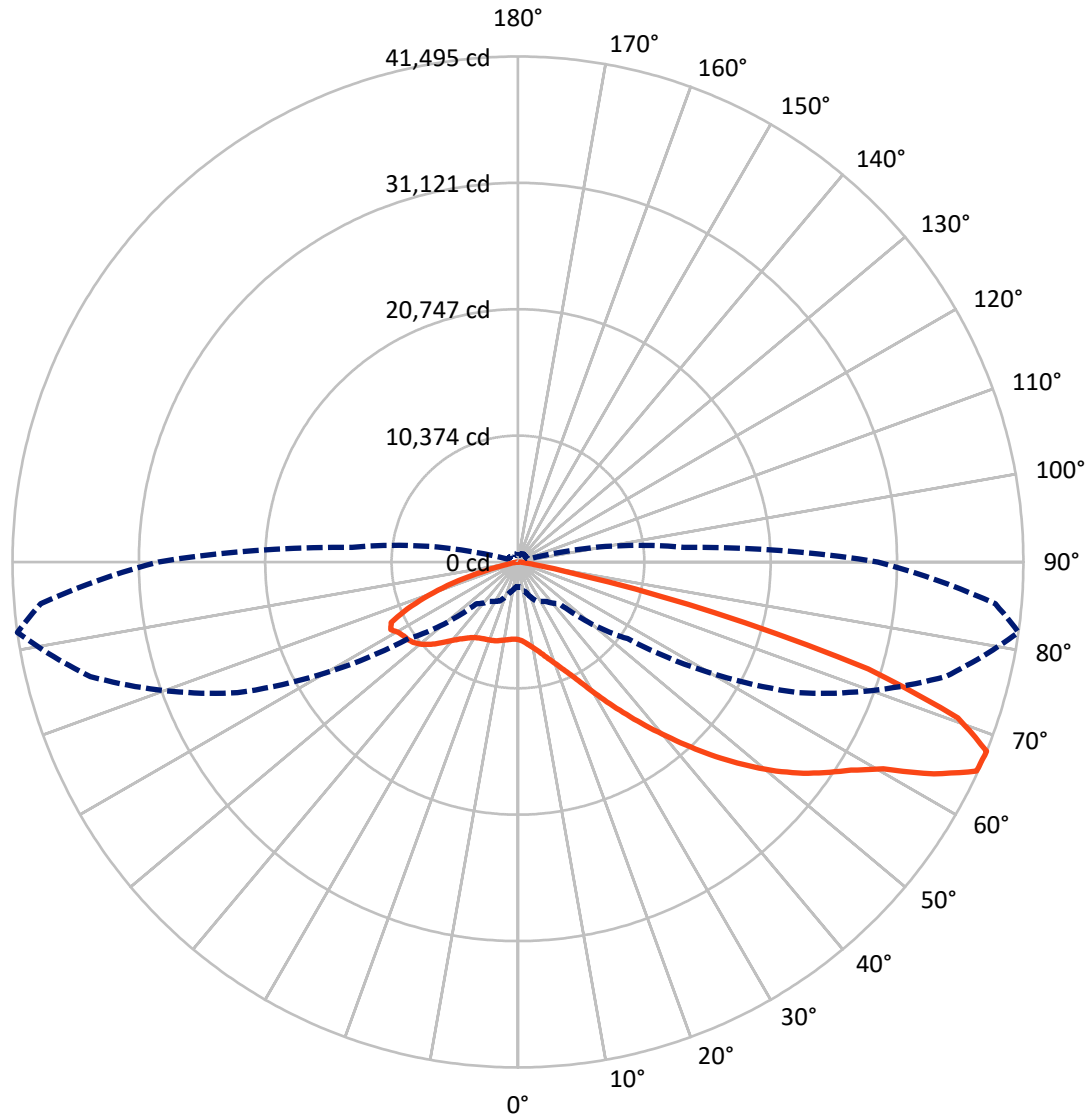
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 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	6965.4	0.0	6965.4
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	31487.6	0.0	31487.6
	% Fixture	81.9	0.0	81.9
Total	Lumens	38453.0	0.0	38453.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	567.6	1.5
10°-20°	1474.8	3.8
20°-30°	2362.2	6.1
30°-40°	4177.1	10.9
40°-50°	7318.7	19.0
50°-60°	9761.1	25.4
60°-70°	9087.1	23.6
70°-80°	3487.6	9.1
80°-90°	216.6	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°	38453.0	100.0
0°-180°	38453.0	100.0

Coefficient of Utilization



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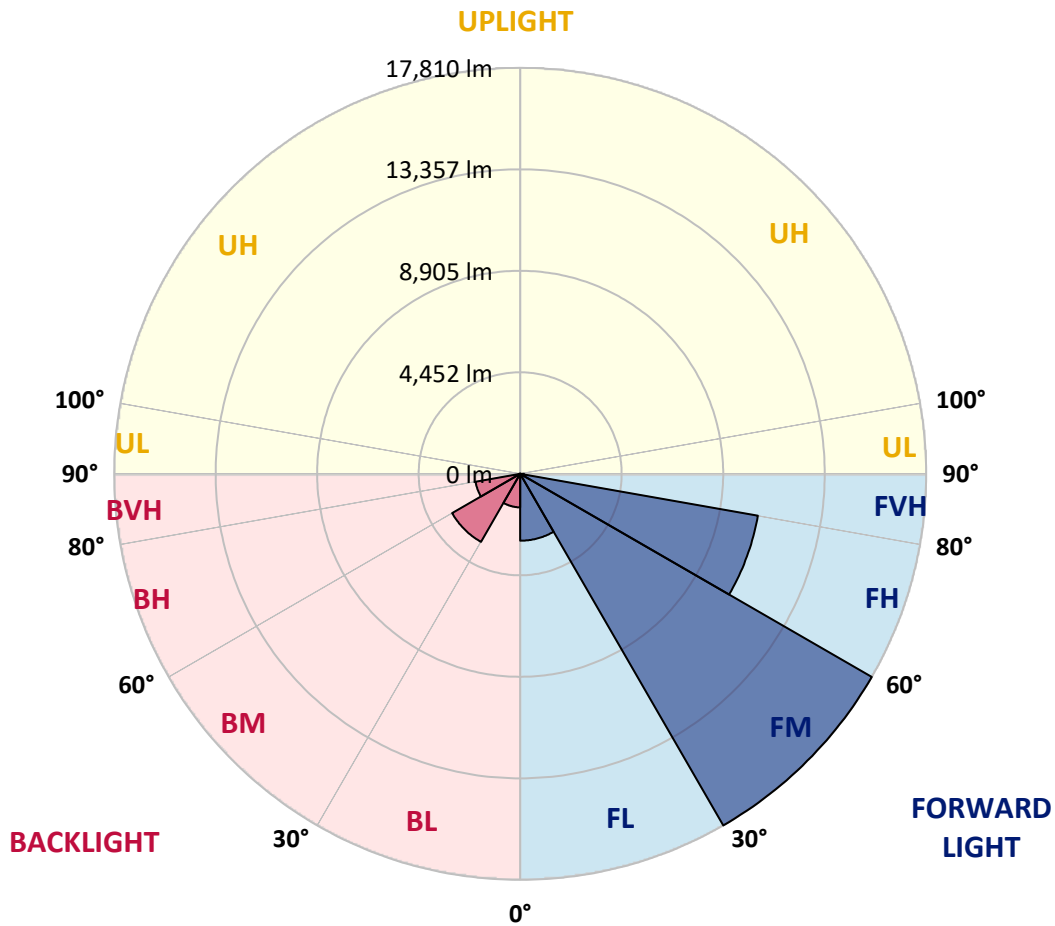
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2933.5	7.6			
FM (30°-60°)	17809.9	46.3			
FH (60°-80°)	10586.7	27.5			G4/12000
FVH (80°-90°)	157.5	0.4			G2/225
BL (0°-30°)	1471.1	3.8	B3/2500		
BM (30°-60°)	3447.2	9.0	B3/5000		
BH (60°-80°)	1988.1	5.2	B3/2500		G3/2500
BVH (80°-90°)	59.1	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°	6370.4	6370.4	6370.4	6370.4	6370.4	6370.4	6370.4	6370.4	6370.4	6370.4
2.5°	6733.0	6771.8	6749.6	6738.6	6719.2	6691.5	6669.4	6600.1	6528.2	6481.1
5°	6868.7	6907.5	6904.7	6915.8	6929.6	6937.9	6932.4	6854.9	6752.4	6672.1
7.5°	6752.4	6796.7	6832.7	6888.1	6985.0	7087.4	7137.2	7120.6	7015.4	6904.7
10°	6423.0	6470.0	6555.9	6686.0	6890.8	7112.3	7297.8	7383.6	7317.2	7195.4
12.5°	5819.4	5866.5	6035.4	6317.8	6661.1	7045.9	7400.2	7630.0	7646.6	7524.8
15°	5141.1	5188.2	5368.2	5722.5	6245.8	6863.2	7455.6	7890.3	8037.0	7931.8
17.5°	4720.3	4761.9	4897.5	5182.7	5728.1	6497.7	7436.2	8167.1	8502.1	8419.1
20°	4593.0	4629.0	4692.6	4892.0	5346.0	6118.4	7308.9	8427.4	9003.2	8956.2
22.5°	4728.6	4761.9	4781.2	4869.8	5155.0	5869.3	7148.3	8693.1	9584.6	9590.1
25°	5041.5	5074.7	5052.5	5107.9	5232.5	5791.7	7087.4	9006.0	10315.5	10376.4
27.5°	5556.4	5559.2	5506.6	5503.8	5523.2	5908.0	7151.1	9341.0	11237.4	11350.9
30°	6589.1	6547.5	6345.4	6126.7	6027.1	6256.9	7328.3	9736.9	12325.4	12527.5
32.5°	8181.0	8120.1	7749.1	7225.8	6699.8	6818.9	7646.6	10188.1	13510.4	13875.8
35°	9908.5	9891.9	9504.3	8726.4	7807.2	7619.0	8164.4	10780.6	14803.3	15384.7
37.5°	11514.3	11506.0	11284.5	10368.1	9249.6	8734.7	8994.9	11555.8	16187.5	17029.2
40°	12981.6	13006.5	12785.0	11965.5	10838.7	10166.0	10124.5	12513.7	17726.8	18820.4
42.5°	14249.6	14277.2	14053.0	13446.7	12408.5	11749.6	11511.5	13687.6	19230.1	20744.5
45°	15110.6	15282.2	15249.0	14764.5	14019.8	13336.0	13178.1	15160.4	20943.8	22784.9
47.5°	15354.2	15512.0	15761.2	15827.6	15373.6	14700.8	14889.1	16935.0	22676.9	24828.1
50°	14753.4	14900.2	15417.9	16107.2	16422.9	16215.2	16553.0	18837.0	24451.6	26865.7
52.5°	13568.5	13718.0	14371.4	15462.2	16749.5	17402.9	18222.4	20711.3	26170.8	28795.4
55°	11854.8	12012.6	12851.5	14086.2	16126.6	17892.9	19615.0	22582.8	27746.1	30531.2
57.5°	9523.7	9640.0	10512.1	12239.6	14559.6	17405.7	20642.1	24626.0	29230.0	32236.6
60°	6207.0	6309.5	7322.7	9249.6	11962.8	15777.8	20846.9	26904.5	31201.2	34454.2
62.5°	4127.9	4197.1	4797.8	6212.6	8424.6	12652.1	19648.2	28723.4	34091.5	38313.5
65°	2832.2	2901.4	3502.2	4487.8	5442.9	8369.2	16201.4	28482.5	36710.6	41378.3
67.5°	2021.0	2079.2	2588.6	3518.8	3939.6	4861.5	10982.7	25403.9	36334.0	41494.6
70°	1447.9	1481.2	1902.0	2740.8	3131.2	2920.8	6107.4	19429.5	31813.0	38316.3
72.5°	1013.3	1024.4	1320.6	2087.5	2522.1	2131.8	2906.9	12953.9	24061.2	30074.4
75°	686.6	700.4	888.7	1531.0	2023.8	1627.9	1539.3	6946.2	14125.0	16647.1
77.5°	420.8	426.4	573.1	1046.5	1514.4	1240.3	991.1	2942.9	5465.1	5365.4
80°	238.1	238.1	365.4	650.6	1032.7	800.1	694.9	1251.4	1730.3	1519.9
82.5°	132.9	135.7	265.8	404.2	683.8	473.4	382.1	578.6	747.5	661.7
85°	55.4	60.9	163.3	191.0	326.7	235.3	155.0	243.6	276.9	246.4
87.5°	5.5	8.3	49.8	36.0	38.8	47.1	22.1	47.1	38.8	38.8
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°
6370.4	0°	6370.4	6370.4	6370.4	6370.4	6370.4	6370.4	6370.4	6370.4	6370.4	6370.4
6464.5	2.5°	6411.9	6370.4	6265.2	6143.3	5982.8	5905.2	5800.0	5728.1	5667.2	5672.7
6625.1	5°	6536.5	6431.3	6195.9	5902.5	5537.0	5276.8	4999.9	4808.9	4653.9	4620.7
6846.5	7.5°	6708.1	6542.0	6129.5	5600.7	4983.3	4515.5	4097.4	3828.9	3637.8	3576.9
7115.1	10°	6929.6	6688.7	6043.7	5221.4	4332.7	3737.5	3289.0	3078.6	2948.5	2904.2
7430.7	12.5°	7187.1	6857.6	5930.2	4759.1	3662.7	3089.7	2804.5	2699.3	2657.8	2643.9
7818.3	15°	7511.0	7068.0	5758.5	4210.9	3095.2	2693.8	2572.0	2558.1	2563.6	2558.1
8283.4	17.5°	7895.8	7297.8	5478.9	3646.1	2713.1	2491.7	2447.4	2458.4	2472.3	2469.5
8803.9	20°	8316.6	7524.8	5121.8	3145.0	2452.9	2347.7	2322.8	2333.9	2344.9	2339.4
9404.7	22.5°	8795.6	7768.5	4725.9	2754.7	2278.5	2214.8	2187.1	2189.9	2189.9	2178.8
10166.0	25°	9368.7	8037.0	4310.6	2477.8	2145.6	2095.8	2062.5	2051.5	2034.9	2001.6
11090.7	27.5°	10052.5	8322.2	3911.9	2284.0	2040.4	1993.3	1954.6	1926.9	1885.4	1830.0
12200.9	30°	10822.1	8668.2	3574.2	2162.2	1957.3	1910.3	1866.0	1824.5	1763.5	1694.3
13477.1	32.5°	11727.4	9039.2	3327.8	2081.9	1882.6	1832.8	1780.2	1730.3	1663.9	1594.7
14911.2	35°	12807.2	9487.7	3183.8	2026.6	1824.5	1758.0	1699.9	1644.5	1594.7	1533.8
16469.9	37.5°	13978.2	9963.9	3139.5	1998.9	1785.7	1683.3	1616.8	1578.1	1572.5	1536.5
18155.9	40°	15260.1	10528.7	3172.7	1982.3	1744.2	1611.3	1539.3	1531.0	1544.8	1481.2
19958.2	42.5°	16616.6	11198.7	3228.1	1962.9	1686.0	1539.3	1470.1	1470.1	1459.0	1370.4
21863.0	45°	18084.0	11971.1	3283.5	1915.8	1616.8	1467.3	1414.7	1395.3	1348.3	1262.4
23778.8	47.5°	19562.4	12757.3	3325.0	1830.0	1533.8	1406.4	1359.3	1315.0	1245.8	1168.3
25658.6	50°	20966.0	13463.3	3280.7	1702.6	1439.6	1348.3	1298.4	1237.5	1162.8	1110.2
27438.8	52.5°	22220.1	14075.1	3092.4	1553.1	1340.0	1287.4	1243.1	1179.4	1118.5	1063.1
29044.5	55°	23310.9	14570.7	2760.2	1411.9	1251.4	1234.8	1190.5	1110.2	1027.1	980.1
30636.4	57.5°	24357.4	14947.2	2344.9	1295.7	1171.1	1176.6	1110.2	1038.2	960.7	910.8
32782.0	60°	25750.0	15451.1	1924.1	1187.7	1085.3	1101.9	1029.9	977.3	880.4	816.7
36461.4	62.5°	27975.9	16234.6	1528.2	1054.8	985.6	991.1	960.7	897.0	780.7	706.0
39188.4	65°	29742.2	15946.7	1204.3	910.8	872.1	880.4	880.4	811.2	686.6	600.8
39335.1	67.5°	29542.9	13654.3	960.7	769.6	764.1	769.6	789.0	730.9	609.1	539.9
36339.6	70°	27214.5	10860.9	769.6	639.5	664.4	650.6	706.0	667.2	548.2	479.0
28172.4	72.5°	22206.3	7823.8	586.9	528.8	509.4	531.6	636.8	600.8	456.8	379.3
14922.3	75°	12976.0	4174.9	437.4	418.0	368.2	443.0	564.8	512.2	348.8	279.6
4573.6	77.5°	4224.8	1456.2	321.1	307.3	274.1	357.1	481.7	431.9	285.2	221.5
1340.0	80°	1132.3	440.2	218.7	202.1	177.2	265.8	382.1	343.3	204.9	144.0
575.9	82.5°	454.0	185.5	127.4	113.5	96.9	182.7	301.8	276.9	152.3	91.4
180.0	85°	146.7	60.9	47.1	36.0	44.3	113.5	180.0	188.3	108.0	47.1
27.7	87.5°	19.4	8.3	8.3	11.1	8.3	19.4	55.4	52.6	30.5	5.5
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>
6370.4
5617.3
4545.9
3516.0
2871.0
2635.6
2555.3
2464.0
2336.6
2173.3
1996.1
1824.5
1688.8
1597.4
1528.2
1533.8
1483.9
1370.4
1259.7
1165.5
1101.9
1057.6
974.5
905.3
808.4
700.4
592.5
528.8
470.6
371.0
271.3
213.2
141.2
91.4
36.0
0.0
0.0

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