

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: P942724

Luminaire Tested: **GALN-SB6D-840-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942724
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-SB6D-840-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 4000K, 900mA 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: 43102 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

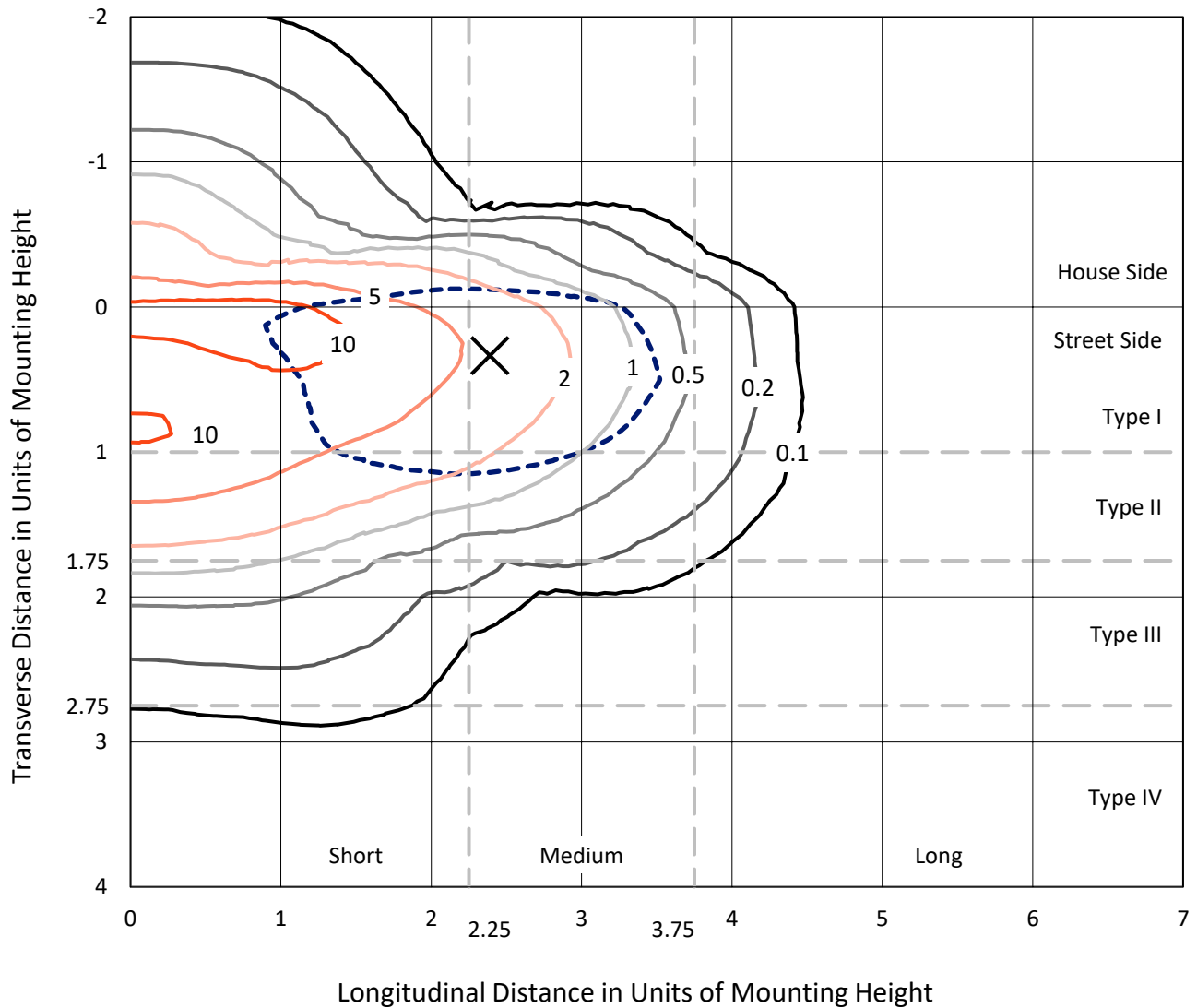
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

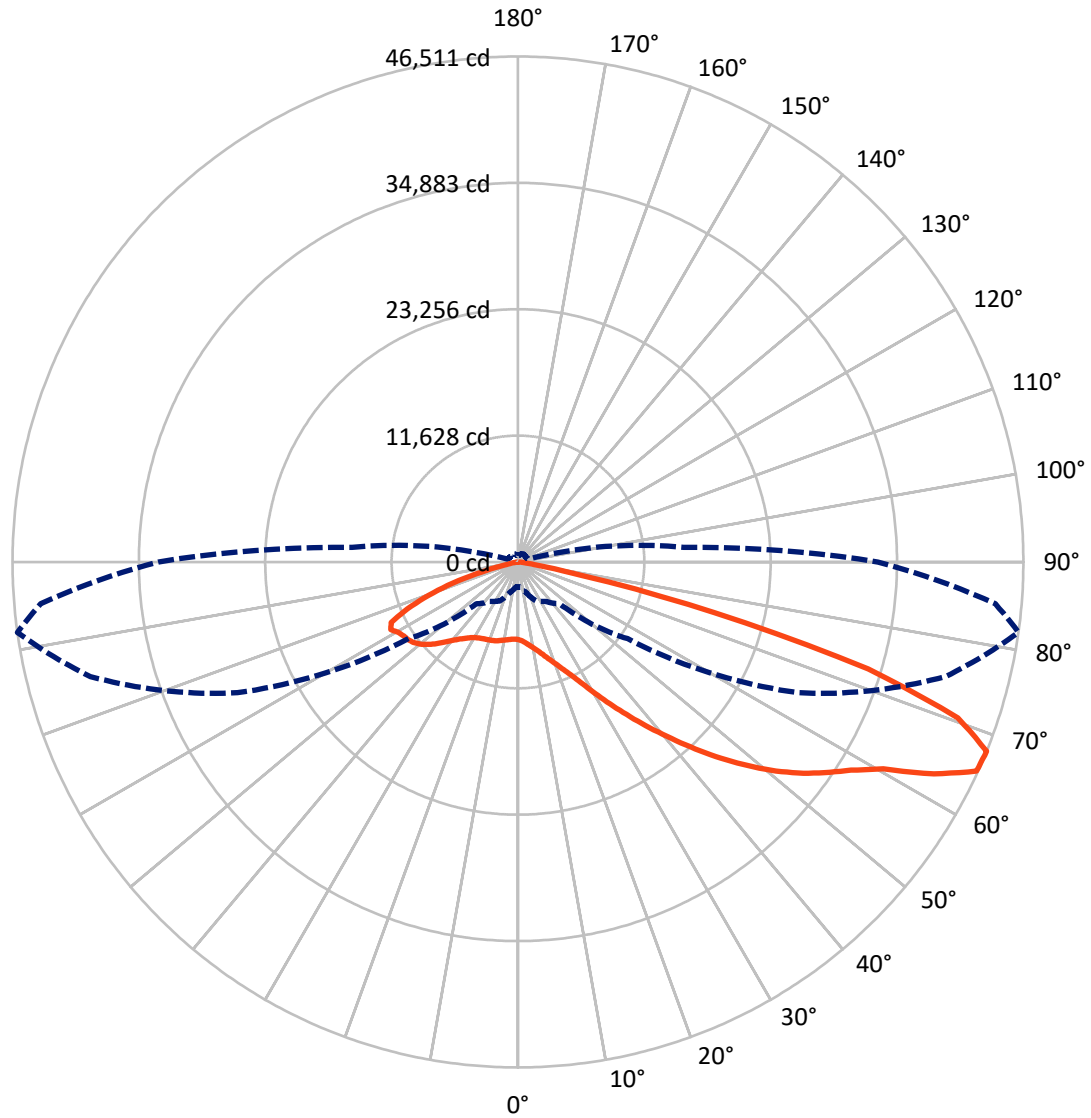
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.1 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	7807.5	0.0	7807.5
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	35294.5	0.0	35294.5
	% Fixture	81.9	0.0	81.9
Total	Lumens	43102.0	0.0	43102.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	636.2	1.5
10°-20°	1653.2	3.8
20°-30°	2647.8	6.1
30°-40°	4682.1	10.9
40°-50°	8203.6	19.0
50°-60°	10941.3	25.4
60°-70°	10185.8	23.6
70°-80°	3909.3	9.1
80°-90°	242.8	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°	43102.0	100.0
0°-180°	43102.0	100.0

Coefficient of Utilization



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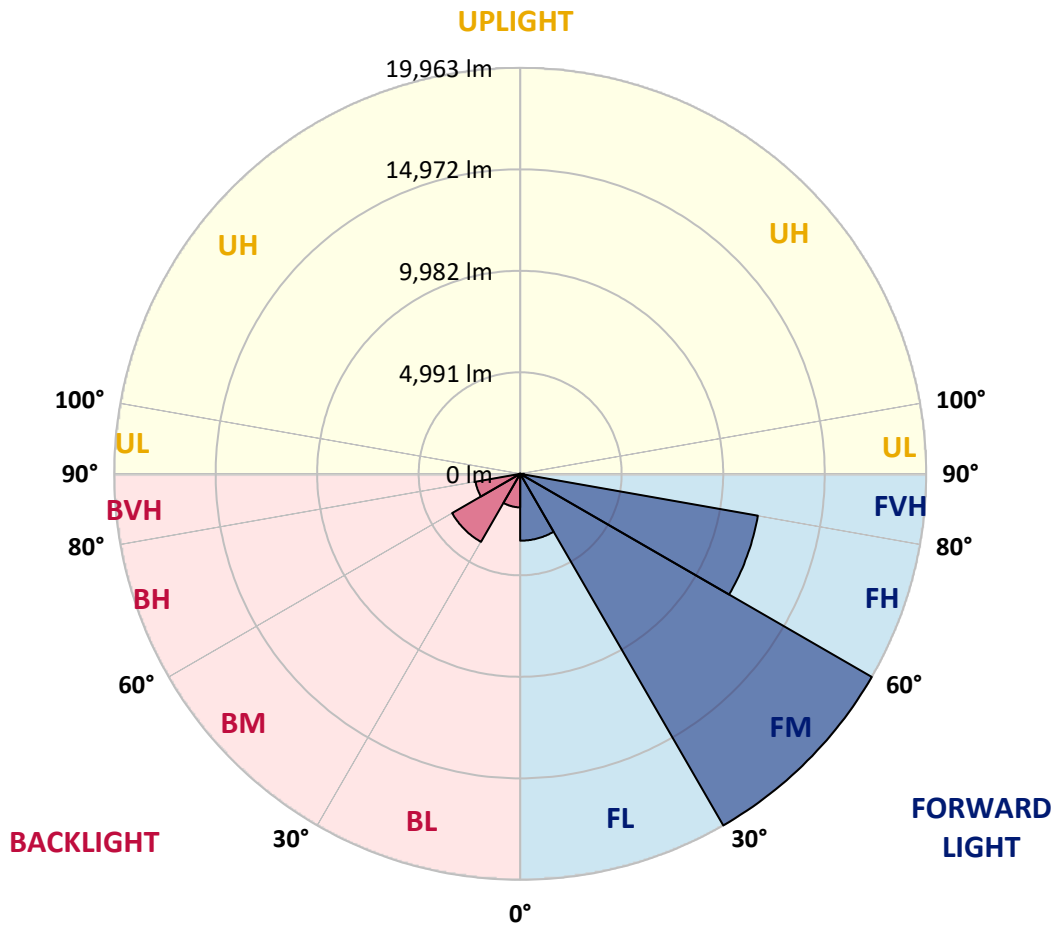
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3288.2	7.6			
FM (30°-60°)	19963.1	46.3			
FH (60°-80°)	11866.6	27.5			G4/12000
FVH (80°-90°)	176.5	0.4			G2/225
BL (0°-30°)	1648.9	3.8	B3/2500		
BM (30°-60°)	3863.9	9.0	B3/5000		
BH (60°-80°)	2228.4	5.2	B3/2500		G3/2500
BVH (80°-90°)	66.3	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°	7140.5	7140.5	7140.5	7140.5	7140.5	7140.5	7140.5	7140.5	7140.5	7140.5
2.5°	7547.1	7590.5	7565.7	7553.3	7531.6	7500.5	7475.7	7398.1	7317.4	7264.7
5°	7699.1	7742.6	7739.5	7751.9	7767.4	7776.7	7770.5	7683.6	7568.8	7478.8
7.5°	7568.8	7618.4	7658.8	7720.8	7829.5	7944.3	8000.1	7981.5	7863.6	7739.5
10°	7199.5	7252.3	7348.5	7494.3	7724.0	7972.2	8180.1	8276.3	8201.8	8065.3
12.5°	6523.0	6575.8	6765.1	7081.6	7466.4	7897.7	8294.9	8552.5	8571.1	8434.6
15°	5762.7	5815.5	6017.2	6414.4	7000.9	7692.9	8357.0	8844.2	9008.7	8890.8
17.5°	5291.0	5337.6	5489.6	5809.3	6420.6	7283.3	8335.3	9154.5	9530.0	9436.9
20°	5148.3	5188.6	5260.0	5483.4	5992.3	6858.1	8192.5	9446.2	10091.7	10039.0
22.5°	5300.3	5337.6	5359.3	5458.6	5778.2	6578.9	8012.6	9744.2	10743.4	10749.6
25°	5651.0	5688.2	5663.4	5725.5	5865.1	6492.0	7944.3	10094.8	11562.7	11630.9
27.5°	6228.2	6231.3	6172.3	6169.2	6191.0	6622.3	8015.7	10470.3	12596.0	12723.3
30°	7385.7	7339.1	7112.6	6867.5	6755.7	7013.3	8214.3	10914.1	13815.6	14042.1
32.5°	9170.1	9101.8	8686.0	8099.4	7509.8	7643.3	8571.1	11419.9	15143.8	15553.4
35°	11106.5	11087.9	10653.4	9781.4	8751.1	8540.1	9151.4	12084.0	16593.0	17244.7
37.5°	12906.4	12897.0	12648.8	11621.6	10367.9	9790.7	10082.4	12952.9	18144.6	19088.0
40°	14551.1	14579.0	14330.7	13412.2	12149.2	11395.1	11348.5	14026.6	19870.0	21095.8
42.5°	15972.3	16003.4	15752.0	15072.4	13908.7	13170.1	12903.2	15342.4	21555.1	23252.5
45°	16937.5	17129.9	17092.6	16549.6	15714.8	14948.3	14771.4	16993.3	23476.0	25539.6
47.5°	17210.5	17387.4	17666.7	17741.2	17232.3	16478.2	16689.2	18982.5	25418.6	27829.8
50°	16537.1	16701.6	17281.9	18054.6	18408.4	18175.6	18554.2	21114.4	27407.8	30113.8
52.5°	15209.0	15376.5	16108.9	17331.6	18774.6	19506.9	20425.5	23215.3	29334.9	32276.7
55°	13288.1	13464.9	14405.2	15789.3	18076.3	20056.2	21986.4	25313.1	31100.6	34222.5
57.5°	10675.1	10805.5	11783.0	13719.4	16319.9	19510.0	23137.7	27603.3	32764.0	36134.1
60°	6957.5	7072.3	8208.1	10367.9	13409.1	17685.3	23367.4	30157.2	34973.5	38619.8
62.5°	4626.9	4704.5	5377.9	6963.7	9443.1	14181.8	22023.7	32196.1	38213.2	42945.7
65°	3174.6	3252.2	3925.6	5030.3	6101.0	9381.1	18160.1	31926.1	41148.9	46380.9
67.5°	2265.4	2330.5	2901.5	3944.2	4415.9	5449.3	12310.5	28475.3	40726.9	46511.3
70°	1623.0	1660.2	2131.9	3072.2	3509.8	3273.9	6845.7	21778.5	35659.3	42948.8
72.5°	1135.8	1148.2	1480.2	2339.8	2827.0	2389.5	3258.4	14520.0	26970.2	33710.4
75°	769.6	785.1	996.1	1716.1	2268.5	1824.7	1725.4	7786.0	15832.7	18659.7
77.5°	471.7	477.9	642.4	1173.0	1697.5	1390.2	1111.0	3298.7	6125.8	6014.1
80°	266.9	266.9	409.6	729.3	1157.5	896.8	778.9	1402.7	1939.5	1703.7
82.5°	149.0	152.1	297.9	453.1	766.5	530.7	428.2	648.6	837.9	741.7
85°	62.1	68.3	183.1	214.1	366.2	263.8	173.8	273.1	310.3	276.2
87.5°	6.2	9.3	55.9	40.3	43.4	52.8	24.8	52.8	43.4	43.4
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°
7140.5	0°	7140.5	7140.5	7140.5	7140.5	7140.5	7140.5	7140.5	7140.5	7140.5	7140.5
7246.1	2.5°	7187.1	7140.5	7022.6	6886.1	6706.1	6619.2	6501.3	6420.6	6352.3	6358.5
7426.0	5°	7326.7	7208.8	6945.0	6616.1	6206.5	5914.8	5604.4	5390.3	5216.5	5179.3
7674.3	7.5°	7519.1	7332.9	6870.6	6277.8	5585.8	5061.4	4592.8	4291.8	4077.7	4009.4
7975.3	10°	7767.4	7497.4	6774.4	5852.7	4856.6	4189.4	3686.6	3450.8	3304.9	3255.3
8329.1	12.5°	8056.0	7686.7	6647.1	5334.5	4105.6	3463.2	3143.6	3025.7	2979.1	2963.6
8763.5	15°	8419.1	7922.6	6454.7	4720.0	3469.4	3019.4	2882.9	2867.4	2873.6	2867.4
9284.9	17.5°	8850.4	8180.1	6141.3	4087.0	3041.2	2792.9	2743.3	2755.7	2771.2	2768.1
9868.3	20°	9322.1	8434.6	5741.0	3525.3	2749.5	2631.5	2603.6	2616.0	2628.4	2622.2
10541.7	22.5°	9859.0	8707.7	5297.2	3087.7	2554.0	2482.6	2451.6	2454.7	2454.7	2442.2
11395.1	25°	10501.3	9008.7	4831.7	2777.4	2405.0	2349.1	2311.9	2299.5	2280.9	2243.6
12431.6	27.5°	11267.8	9328.3	4384.9	2560.2	2287.1	2234.3	2190.9	2159.9	2113.3	2051.2
13676.0	30°	12130.5	9716.2	4006.3	2423.6	2194.0	2141.2	2091.6	2045.0	1976.8	1899.2
15106.5	32.5°	13145.3	10132.1	3730.1	2333.6	2110.2	2054.3	1995.4	1939.5	1865.0	1787.5
16714.0	35°	14355.6	10634.8	3568.7	2271.6	2045.0	1970.6	1905.4	1843.3	1787.5	1719.2
18461.1	37.5°	15668.2	11168.5	3519.1	2240.5	2001.6	1886.8	1812.3	1768.8	1762.6	1722.3
20351.0	40°	17105.0	11801.6	3556.3	2221.9	1955.0	1806.1	1725.4	1716.1	1731.6	1660.2
22371.2	42.5°	18625.6	12552.6	3618.4	2200.2	1889.9	1725.4	1647.8	1647.8	1635.4	1536.1
24506.2	45°	20270.3	13418.4	3680.4	2147.4	1812.3	1644.7	1585.8	1564.0	1511.3	1415.1
26653.7	47.5°	21927.5	14299.7	3727.0	2051.2	1719.2	1576.4	1523.7	1474.0	1396.5	1309.6
28760.8	50°	23500.8	15091.0	3677.3	1908.5	1613.7	1511.3	1455.4	1387.1	1303.4	1244.4
30756.2	52.5°	24906.6	15776.8	3466.3	1740.9	1502.0	1443.0	1393.4	1322.0	1253.7	1191.6
32556.0	55°	26129.2	16332.3	3093.9	1582.6	1402.7	1384.0	1334.4	1244.4	1151.3	1098.5
34340.4	57.5°	27302.3	16754.4	2628.4	1452.3	1312.7	1318.9	1244.4	1163.7	1076.8	1021.0
36745.4	60°	28863.2	17319.2	2156.7	1331.3	1216.5	1235.1	1154.4	1095.4	986.8	915.5
40869.6	62.5°	31358.2	18197.4	1713.0	1182.3	1104.8	1111.0	1076.8	1005.4	875.1	791.3
43926.3	65°	33338.0	17874.6	1349.9	1021.0	977.5	986.8	986.8	909.2	769.6	673.4
44090.8	67.5°	33114.6	15305.2	1076.8	862.7	856.5	862.7	884.4	819.3	682.7	605.1
40733.1	70°	30504.8	12174.0	862.7	716.8	744.8	729.3	791.3	747.9	614.4	536.9
31578.5	72.5°	24891.0	8769.7	657.9	592.7	571.0	595.8	713.7	673.4	512.0	425.1
16726.4	75°	14544.9	4679.7	490.3	468.6	412.7	496.5	633.1	574.1	391.0	313.4
5126.5	77.5°	4735.5	1632.3	360.0	344.5	307.2	400.3	540.0	484.1	319.6	248.3
1502.0	80°	1269.2	493.4	245.2	226.5	198.6	297.9	428.2	384.8	229.6	161.4
645.5	82.5°	508.9	207.9	142.7	127.2	108.6	204.8	338.3	310.3	170.7	102.4
201.7	85°	164.5	68.3	52.8	40.3	49.7	127.2	201.7	211.0	121.0	52.8
31.0	87.5°	21.7	9.3	9.3	12.4	9.3	21.7	62.1	59.0	34.1	6.2
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>
7140.5
6296.5
5095.5
3941.1
3218.1
2954.3
2864.3
2761.9
2619.1
2436.0
2237.4
2045.0
1893.0
1790.6
1713.0
1719.2
1663.3
1536.1
1412.0
1306.5
1235.1
1185.4
1092.3
1014.8
906.1
785.1
664.1
592.7
527.5
415.8
304.1
238.9
158.3
102.4
40.3
0.0
0.0

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