

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: P953201

Luminaire Tested: **GALN-SB6D-827-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953201
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6D-827-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45432 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G5

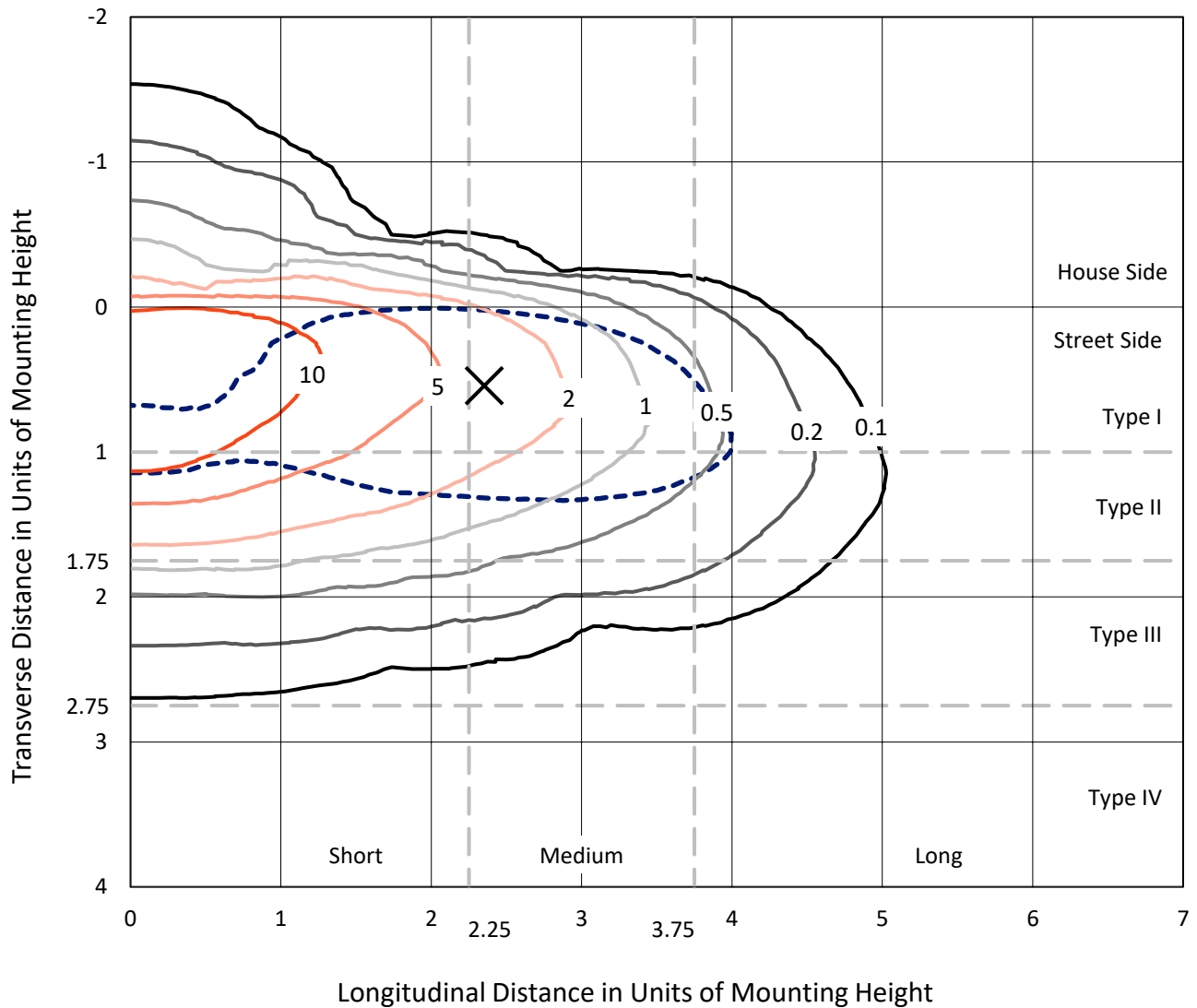
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P953201
 CATALOG NUMBER: GALN-SB6D-827-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

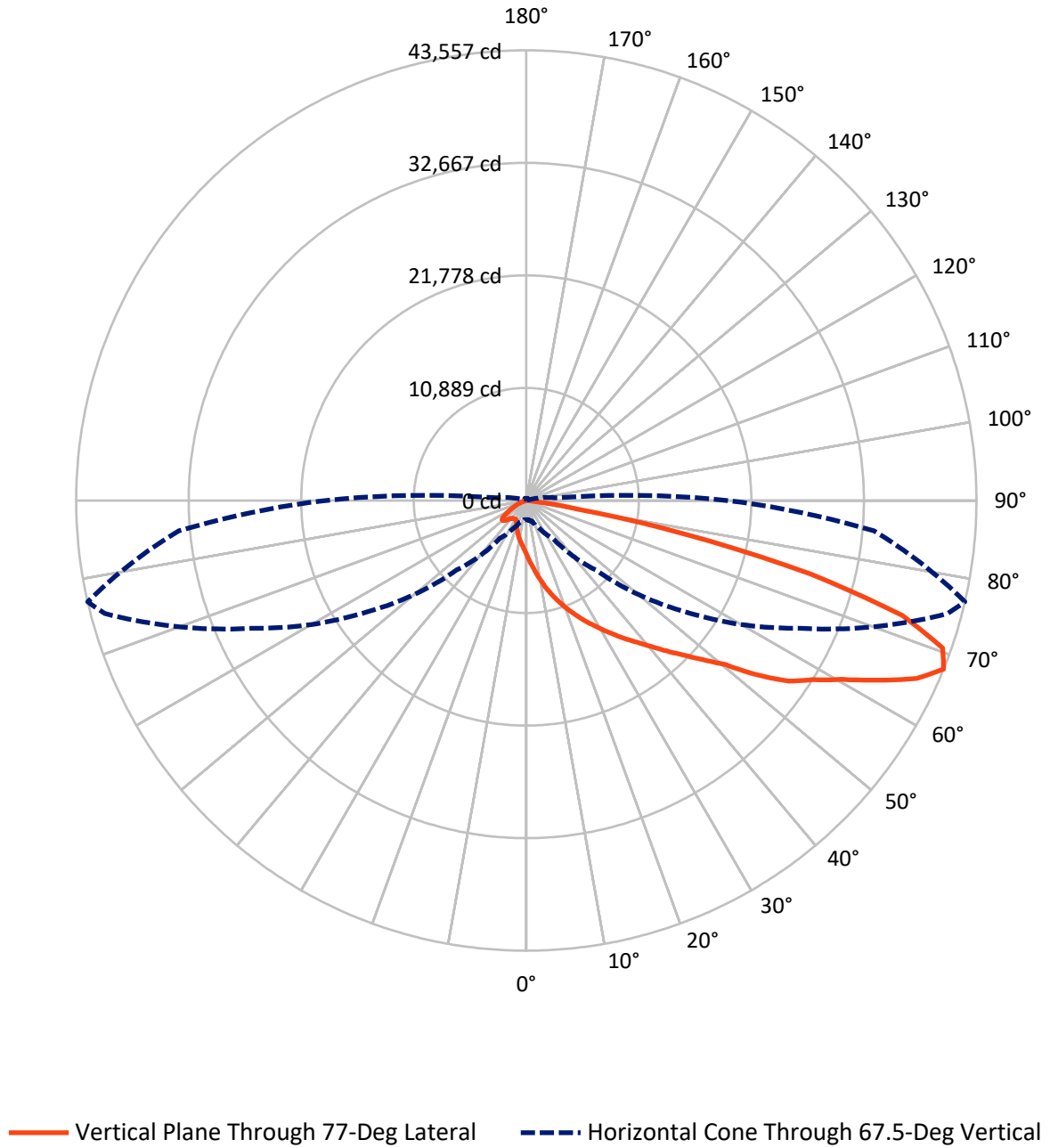
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.6 fc
 Type II - Medium - N/A

REPORT NUMBER: P953201
CATALOG NUMBER: GALN-SB6D-827-U-T2R-HSS

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3342.4	0.0	3342.4
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	42089.5	0.0	42089.5
	% Fixture	92.6	0.0	92.6
Total	Lumens	45432.0	0.0	45432.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	534.7	1.2
10°-20°	1872.5	4.1
20°-30°	3613.5	8.0
30°-40°	6273.2	13.8
40°-50°	9108.4	20.0
50°-60°	10459.8	23.0
60°-70°	9081.1	20.0
70°-80°	4277.3	9.4
80°-90°	211.5	0.5
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°	45432.0	100.0
0°-180°	45432.0	100.0

Coefficient of Utilization



REPORT NUMBER: P953201

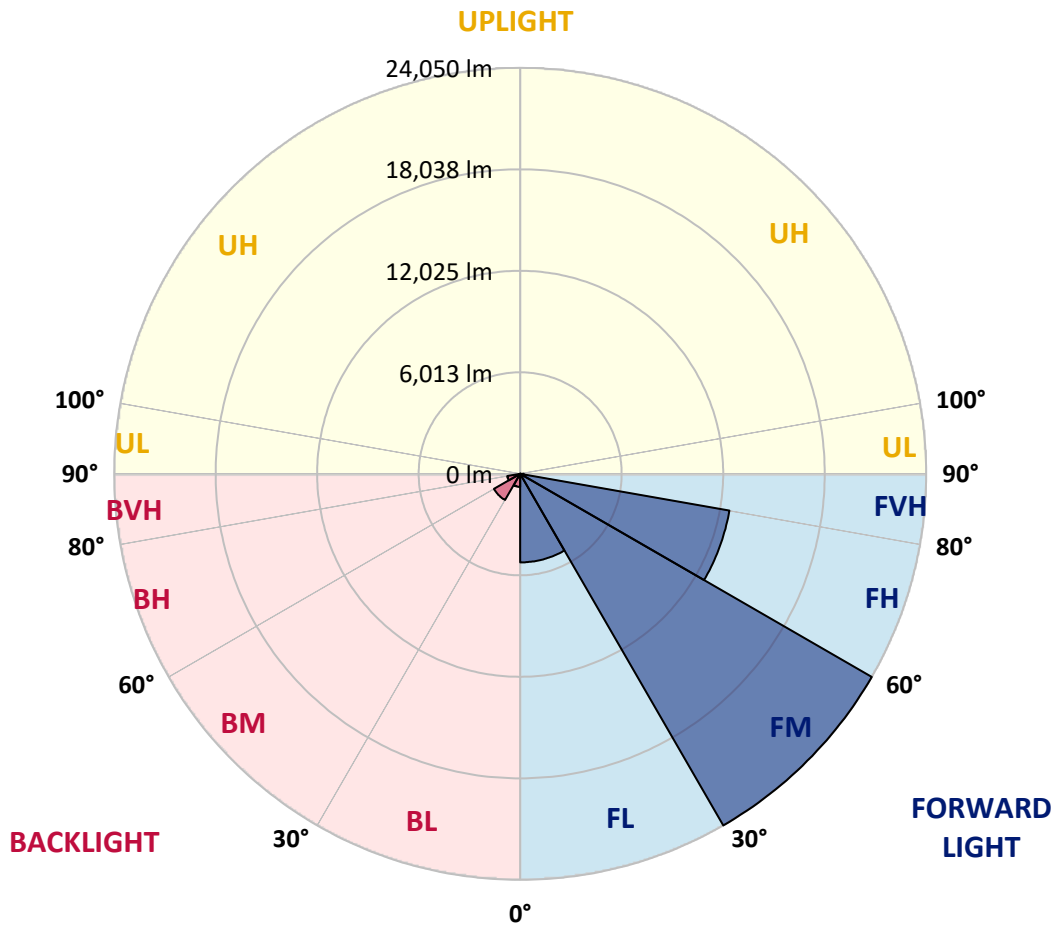
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5246.9	11.5			
FM (30°-60°)	24050.5	52.9			
FH (60°-80°)	12584.5	27.7			G5
FVH (80°-90°)	207.6	0.5			G2/225
BL (0°-30°)	773.8	1.7	B2/1000		
BM (30°-60°)	1790.9	3.9	B2/2500		
BH (60°-80°)	773.8	1.7	B2/1000		G2/1000
BVH (80°-90°)	3.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type II Medium



REPORT NUMBER: P953201
 CATALOG NUMBER: GALN-SB6D-827-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	5239.0	5239.0	5239.0	5239.0	5239.0	5239.0	5239.0	5239.0	5239.0	5239.0
2.5°	7253.3	7298.5	7233.6	7109.4	6923.2	6801.9	6505.7	6226.4	5916.1	5817.3
5°	8841.7	8881.2	8807.8	8672.4	8424.1	8187.1	7797.8	7213.8	6607.3	6412.6
7.5°	10018.1	10040.7	10012.5	9888.3	9651.3	9383.3	8948.9	8257.7	7357.7	7143.3
10°	10864.5	10937.8	10929.3	10881.4	10723.4	10506.2	10043.5	9256.4	8198.4	7921.9
12.5°	11425.9	11507.7	11555.7	11662.9	11654.4	11516.2	11109.9	10277.6	9036.3	8711.9
15°	11589.5	11677.0	11860.3	12108.6	12328.7	12399.2	12114.3	11279.2	9958.9	9544.1
17.5°	11496.4	11631.8	11851.9	12244.0	12726.5	13045.3	13014.2	12246.9	10796.8	10322.8
20°	11702.4	11832.1	12004.2	12334.3	12895.7	13474.1	13705.4	13172.2	11629.0	11132.5
22.5°	12842.1	12819.6	12836.5	12890.1	13225.8	13798.5	14275.3	14012.9	12452.8	11945.0
25°	14647.7	14546.1	14374.0	14083.5	13998.8	14275.3	14771.8	14757.7	13321.7	12777.2
27.5°	16718.5	16701.5	16298.1	15598.4	15203.5	15096.3	15333.2	15482.8	14182.2	13601.0
30°	18701.8	18746.9	18202.4	17423.8	16698.7	16278.4	16063.9	16171.1	15056.8	14489.7
32.5°	20428.3	20476.3	19883.9	18972.6	18075.5	17567.6	17116.2	16851.1	16010.3	15392.5
35°	21886.9	21934.9	21255.0	20247.8	19291.4	18831.5	18320.9	17595.9	16969.5	16394.0
37.5°	23190.3	23176.2	22264.9	21249.3	20309.9	19945.9	19677.9	18512.7	17957.0	17401.2
40°	23960.5	24019.7	23241.1	22121.1	21209.8	20944.6	20927.7	19649.7	19096.7	18557.9
42.5°	24186.2	24290.6	23726.3	22806.6	21980.0	21692.2	22135.2	20879.7	20422.7	19898.0
45°	23779.9	23881.5	23624.8	22987.2	22504.8	22318.6	23173.4	22154.9	21838.9	21319.8
47.5°	22595.0	22722.0	22784.1	22648.6	22643.0	22832.0	24104.4	23497.8	23520.4	22990.0
50°	20301.4	20515.8	21085.7	21565.3	22307.3	23238.3	25010.0	24953.6	25416.2	24959.2
52.5°	16131.6	16436.3	18399.9	19711.8	21379.1	23162.1	26005.9	27289.5	28742.4	28073.8
55°	12963.4	12963.4	14560.2	17014.7	19567.9	22659.9	26440.3	28807.3	31007.9	30849.9
57.5°	10568.2	10695.2	11713.6	13883.1	16947.0	21463.7	26708.3	29760.9	32833.2	32717.5
60°	6522.6	6796.3	8720.3	10861.6	13965.0	19333.7	26539.1	30725.7	35047.8	35140.9
62.5°	3673.2	3774.8	4632.4	7814.7	10858.8	16470.2	25244.1	31264.6	37880.3	38275.3
65°	2536.3	2587.0	2917.1	4863.8	7527.0	13113.0	22713.5	30928.9	40718.4	41516.9
67.5°	1842.2	1867.6	2073.6	2970.7	4466.0	9507.5	18746.9	29236.1	42222.2	43556.6
70°	1416.2	1433.2	1582.7	1952.3	2637.8	5868.1	13615.1	25870.4	41133.2	42727.1
72.5°	1151.1	1168.0	1283.6	1444.5	1749.1	3470.1	8252.0	21009.5	36325.8	38046.8
75°	970.5	993.1	1097.4	1201.8	1371.1	2228.8	3870.7	14630.8	27317.7	28446.2
77.5°	538.9	496.5	891.5	995.9	1156.7	1410.6	1811.2	8610.3	15299.4	15612.5
80°	335.7	347.0	708.1	801.2	888.7	710.9	829.4	3314.9	5303.9	5038.7
82.5°	19.7	45.1	544.5	578.3	609.4	304.7	313.2	1125.7	1278.0	1173.6
85°	0.0	0.0	248.3	200.3	211.6	87.5	90.3	262.4	172.1	186.2
87.5°	0.0	0.0	0.0	5.6	0.0	8.5	16.9	22.6	8.5	11.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P953201
 CATALOG NUMBER: GALN-SB6D-827-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
5239.0	0°	5239.0	5239.0	5239.0	5239.0	5239.0	5239.0	5239.0	5239.0	5239.0	5239.0
5507.0	2.5°	5309.5	5112.0	4711.4	4319.3	4000.5	3704.2	3492.7	3292.3	3190.8	3185.1
5862.5	5°	5470.3	5055.6	4254.4	3546.3	2976.4	2519.3	2223.1	2011.5	1904.3	1867.6
6299.8	7.5°	5696.0	5072.5	3853.8	2869.2	2197.7	1805.6	1636.3	1568.6	1546.0	1520.6
6793.5	10°	5981.0	5112.0	3495.5	2310.6	1732.2	1534.7	1467.0	1438.8	1421.9	1405.0
7349.2	12.5°	6299.8	5148.7	3140.0	1918.4	1523.5	1421.9	1373.9	1340.1	1317.5	1297.8
7919.1	15°	6610.1	5171.3	2770.4	1644.8	1416.2	1334.4	1283.6	1247.0	1215.9	1193.4
8477.7	17.5°	6917.6	5202.3	2423.4	1481.1	1328.8	1247.0	1196.2	1151.1	1125.7	1100.3
9064.5	20°	7259.0	5196.7	2096.2	1365.5	1241.3	1159.5	1105.9	1063.6	1038.2	1010.0
9685.2	22.5°	7574.9	5168.4	1808.4	1266.7	1151.1	1072.1	1012.8	970.5	945.1	922.5
10320.0	25°	7938.9	5145.9	1568.6	1176.4	1066.4	987.4	922.5	883.0	854.8	835.1
10957.6	27.5°	8288.7	5112.0	1393.7	1094.6	984.6	908.4	846.4	801.2	775.8	761.7
11614.9	30°	8632.9	5103.6	1328.8	1015.6	911.2	835.1	773.0	730.7	710.9	705.3
12337.1	32.5°	9047.6	5126.1	1357.0	987.4	843.5	767.4	708.1	677.1	657.3	657.3
13141.2	35°	9490.5	5120.5	1399.3	1012.8	798.4	699.7	654.5	634.8	615.0	615.0
14032.7	37.5°	10046.3	5129.0	1433.2	1055.1	781.5	643.2	617.8	592.5	581.2	581.2
15008.8	40°	10875.7	5408.2	1416.2	1091.8	775.8	603.7	553.0	544.5	536.0	536.0
16111.9	42.5°	11891.4	6014.8	1438.8	1094.6	773.0	575.5	507.8	524.7	505.0	502.2
17356.1	45°	13002.9	6677.8	1582.7	1035.4	770.2	561.4	485.2	505.0	474.0	474.0
18797.7	47.5°	14106.0	7335.1	1729.4	950.7	761.7	558.6	465.5	454.2	445.8	448.6
20676.6	50°	15626.7	7871.2	1785.8	835.1	742.0	553.0	428.8	431.6	426.0	431.6
23325.7	52.5°	17282.7	7984.0	1718.1	705.3	685.6	536.0	403.4	414.7	411.9	417.5
25190.5	55°	18315.3	7862.7	1419.1	586.8	598.1	468.3	378.0	400.6	400.6	400.6
27013.0	57.5°	19381.7	7346.4	1007.2	476.8	496.5	383.7	355.5	386.5	383.7	380.9
29207.9	60°	20149.0	6511.3	663.0	392.1	395.0	316.0	330.1	363.9	361.1	347.0
31470.5	62.5°	20721.7	5588.8	426.0	332.9	301.9	284.9	301.9	330.1	318.8	287.8
33389.0	65°	20656.9	4310.8	327.3	284.9	248.3	248.3	262.4	287.8	253.9	203.1
33755.7	67.5°	19452.2	2917.1	270.8	239.8	208.8	205.9	217.2	239.8	217.2	172.1
31876.8	70°	17299.6	1907.1	217.2	186.2	166.5	152.3	174.9	205.9	183.4	138.2
27137.2	72.5°	14041.1	1162.3	163.6	135.4	121.3	98.7	138.2	169.3	146.7	101.6
18871.0	75°	9084.3	592.5	112.8	87.5	64.9	59.2	101.6	127.0	101.6	62.1
8373.3	77.5°	3475.7	248.3	62.1	39.5	33.9	28.2	56.4	76.2	42.3	14.1
1622.2	80°	668.6	104.4	31.0	19.7	16.9	11.3	8.5	5.6	0.0	0.0
287.8	82.5°	115.7	33.9	11.3	5.6	0.0	0.0	0.0	0.0	0.0	0.0
56.4	85°	39.5	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19.7	87.5°	14.1	0.0	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>
5239.0
3179.5
1862.0
1515.0
1399.3
1292.1
1190.5
1097.4
1007.2
919.7
832.3
761.7
702.5
657.3
615.0
581.2
536.0
499.4
474.0
448.6
431.6
417.5
400.6
380.9
347.0
282.1
197.5
166.5
132.6
95.9
53.6
11.3
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