

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: P955702

Luminaire Tested: **GALN-SB8C-827-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955702
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
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-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40244 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

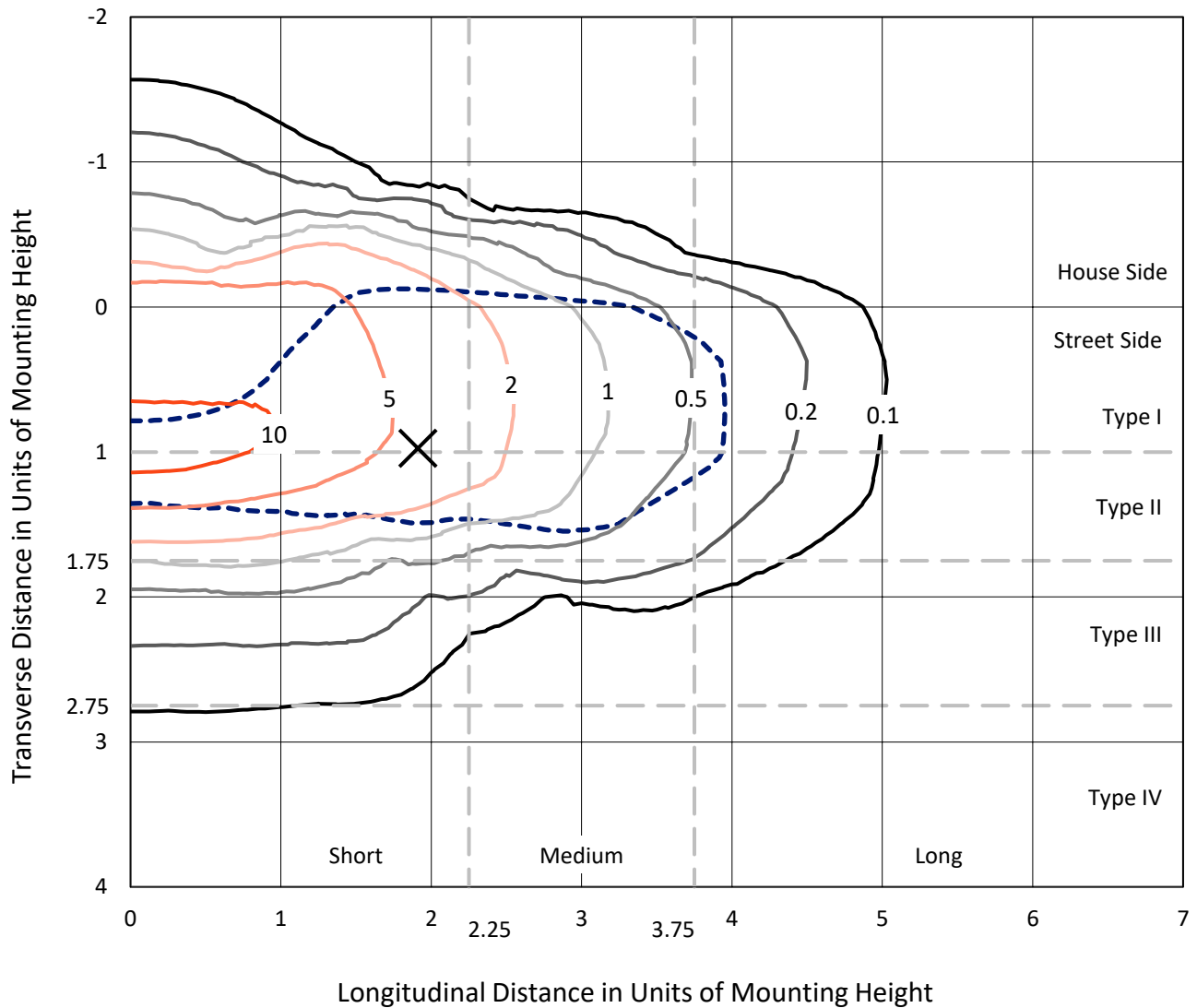
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

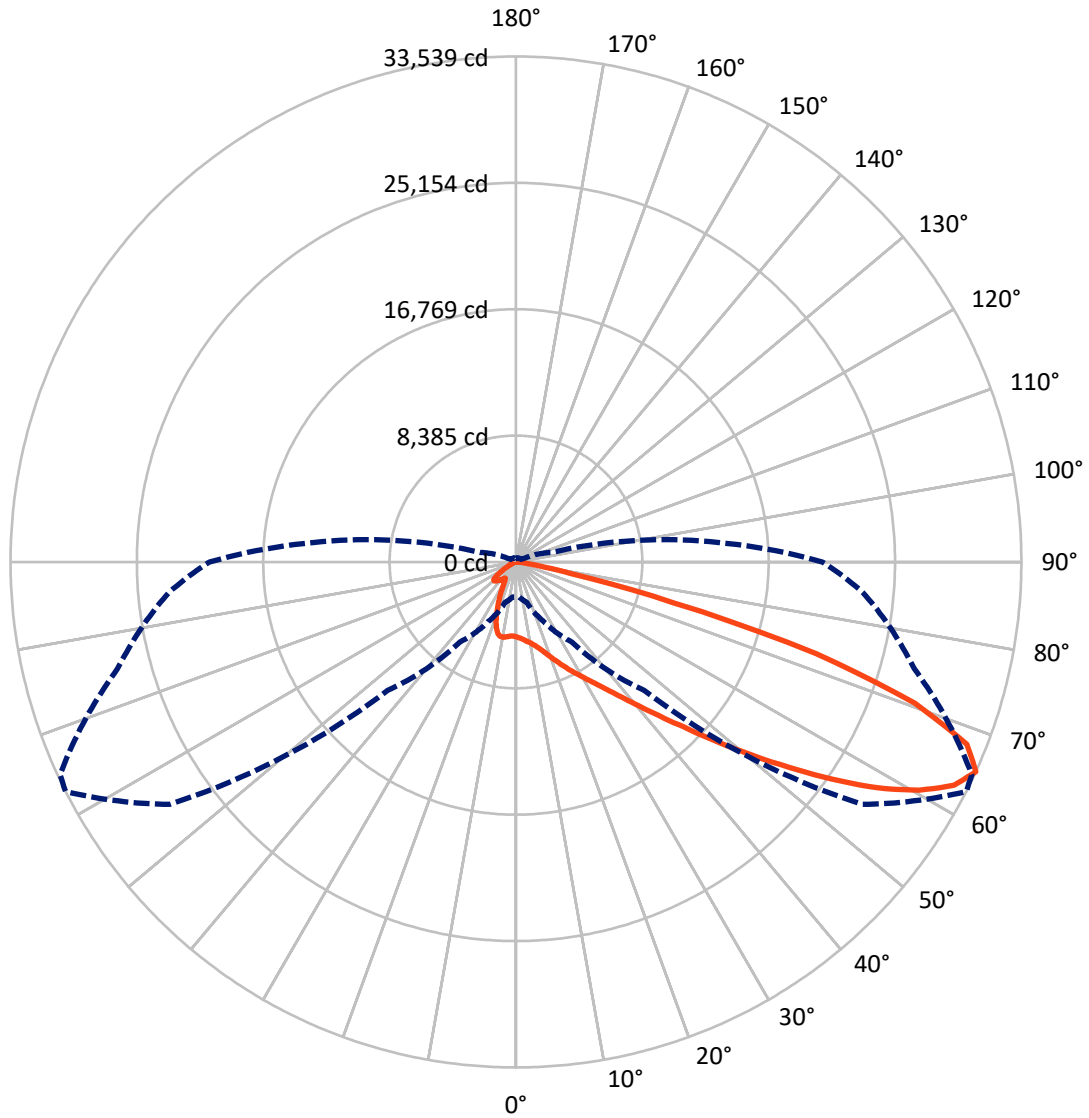
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5915.6	0.0	5915.6
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	34328.5	0.0	34328.5
	% Fixture	85.3	0.0	85.3
Total	Lumens	40244.0	0.0	40244.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	468.0	1.2
10°-20°	1298.5	3.2
20°-30°	2260.9	5.6
30°-40°	4075.1	10.1
40°-50°	8082.2	20.1
50°-60°	11009.3	27.4
60°-70°	8787.6	21.8
70°-80°	3976.6	9.9
80°-90°	285.8	0.7
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°	40244.0	100.0
0°-180°	40244.0	100.0

Coefficient of Utilization



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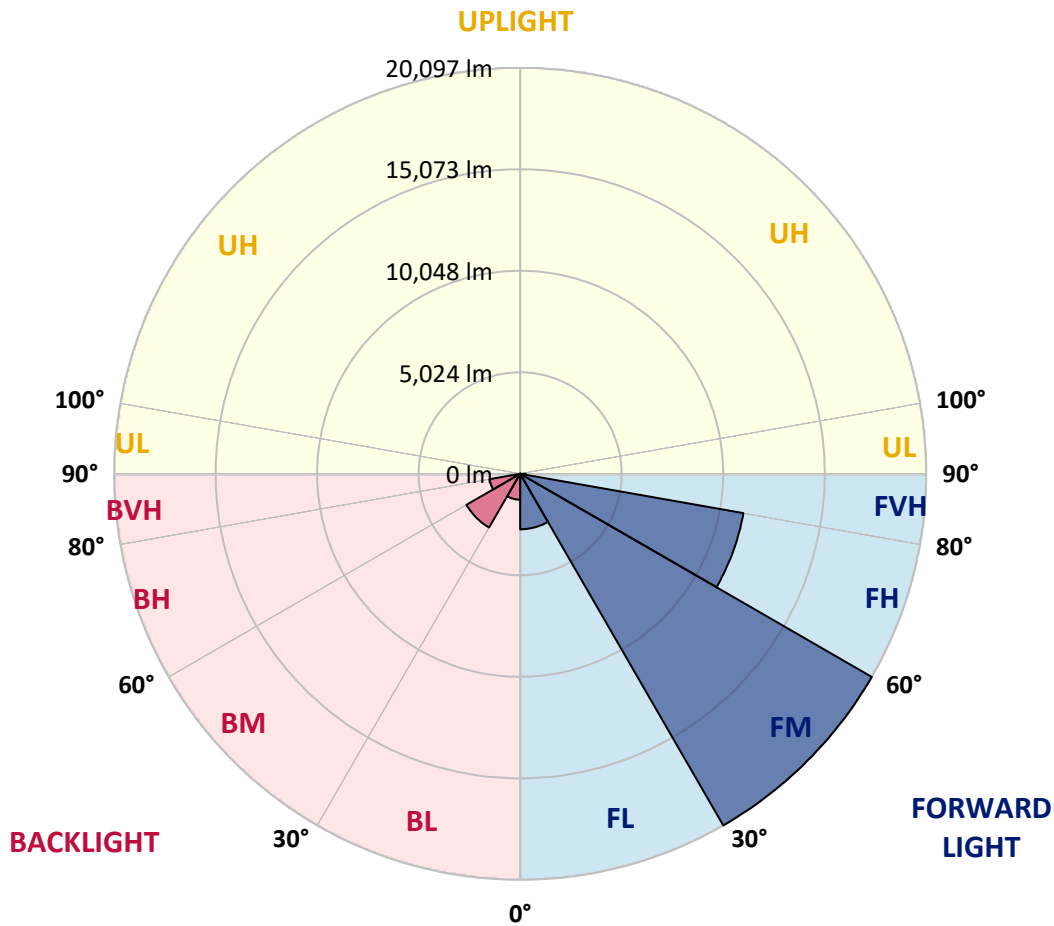
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2747.1	6.8			
FM (30°-60°)	20096.8	49.9			
FH (60°-80°)	11219.8	27.9			G4/12000
FVH (80°-90°)	264.6	0.7			G3/500
BL (0°-30°)	1280.2	3.2	B3/2500		
BM (30°-60°)	3069.8	7.6	B3/5000		
BH (60°-80°)	1544.3	3.8	B3/2500		G3/2500
BVH (80°-90°)	21.2	0.1			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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	4966.9	4966.9	4966.9	4966.9	4966.9	4966.9	4966.9	4966.9	4966.9	4966.9
2.5°	5083.2	5069.3	5088.7	5080.4	5074.8	5063.8	5058.2	5052.7	5041.6	5033.3
5°	5097.0	5088.7	5108.1	5124.7	5141.3	5157.9	5166.2	5177.3	5166.2	5144.1
7.5°	4980.7	4975.2	5016.7	5066.5	5141.3	5205.0	5274.2	5312.9	5315.7	5307.4
10°	4972.4	4958.6	5000.1	5061.0	5157.9	5271.4	5393.2	5476.3	5487.4	5523.4
12.5°	5102.5	5088.7	5146.8	5213.3	5312.9	5432.0	5581.5	5697.8	5714.4	5764.2
15°	5321.3	5301.9	5368.3	5454.1	5581.5	5717.2	5875.0	5980.2	5994.0	6054.9
17.5°	5576.0	5556.6	5634.1	5725.5	5863.9	6049.4	6232.1	6348.4	6365.0	6403.8
20°	5902.7	5877.7	5938.6	6021.7	6168.4	6389.9	6608.7	6774.8	6772.0	6772.0
22.5°	6282.0	6243.2	6295.8	6362.2	6500.7	6769.2	7059.9	7256.5	7256.5	7179.0
25°	6688.9	6650.2	6708.3	6769.2	6891.0	7195.6	7536.1	7779.8	7790.8	7658.0
27.5°	7198.4	7148.5	7192.8	7264.8	7336.8	7646.9	8051.1	8333.5	8339.0	8134.1
30°	8178.4	8037.2	7898.8	7821.3	7854.5	8161.8	8593.7	8906.6	8934.3	8651.9
32.5°	9972.5	9944.8	9457.5	8820.8	8488.5	8715.6	9200.1	9576.6	9593.2	9230.5
35°	12760.5	12727.3	11943.7	10731.1	9648.6	9457.5	9936.5	10382.3	10371.2	9961.4
37.5°	16088.3	16057.9	15025.2	13402.8	11650.3	10578.8	10886.1	11354.0	11423.2	10886.1
40°	18931.7	18818.2	18164.8	16600.5	14308.1	12439.3	12237.2	12547.3	12619.3	11982.5
42.5°	21085.7	20988.8	20656.5	19679.2	17525.2	15191.3	13829.2	13948.2	14028.5	13264.4
45°	22201.4	22179.3	22312.2	22220.8	20803.3	18569.0	16105.0	15609.4	15639.8	14684.7
47.5°	22359.2	22348.1	22954.5	23812.7	23621.7	22378.6	19025.8	17680.3	17572.3	16287.7
50°	21429.0	21406.8	22569.6	24178.2	25504.4	25579.1	22342.6	20014.2	19776.1	17946.1
52.5°	18458.3	18452.7	20363.1	23040.3	26166.0	28380.9	25620.6	22577.9	22179.3	19701.4
55°	14202.9	14305.4	16495.3	19659.8	24958.9	29729.2	28563.7	25424.1	24812.2	21467.7
57.5°	10061.1	10210.6	12375.6	15194.1	21215.8	28931.9	30554.3	28275.7	27616.8	23228.6
60°	5404.3	5537.2	7705.0	11068.9	15783.8	25958.4	31603.6	30750.9	30127.9	24900.8
62.5°	3219.9	3264.2	4161.2	7145.8	10675.7	19831.5	31157.8	32636.3	32124.1	26304.5
65°	2311.8	2320.1	2771.4	4363.3	6481.3	12049.0	28032.1	33538.8	33381.0	27362.1
67.5°	1946.3	1940.8	2129.1	2898.7	4415.9	6035.5	21484.3	32262.5	32932.5	28032.1
70°	1669.5	1677.8	1899.3	2123.5	3319.6	3416.5	10681.3	28090.2	29518.8	28209.3
72.5°	1243.1	1270.8	1475.7	1935.3	2505.6	2350.5	3687.8	20828.2	23411.3	26578.6
75°	877.6	891.5	1038.2	1627.9	1868.8	1711.0	1882.6	10767.1	14078.3	20376.9
77.5°	675.5	700.5	786.3	1137.9	1841.1	1201.6	1151.7	3726.5	5725.5	12309.2
80°	365.5	409.8	567.6	822.3	1292.9	850.0	570.3	1484.0	1940.8	5755.9
82.5°	188.3	210.4	395.9	592.5	736.4	742.0	282.4	617.4	800.1	1777.4
85°	74.8	91.4	265.8	326.7	379.3	365.5	127.4	249.2	287.9	492.8
87.5°	16.6	27.7	96.9	74.8	72.0	77.5	30.5	58.1	55.4	58.1
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°
4966.9	0°	4966.9	4966.9	4966.9	4966.9	4966.9	4966.9	4966.9	4966.9	4966.9	4966.9
5000.1	2.5°	4997.3	4986.3	4955.8	4922.6	4883.8	4861.7	4847.8	4845.1	4825.7	4811.8
5110.8	5°	5080.4	5069.3	5011.2	4942.0	4867.2	4809.1	4753.7	4703.9	4631.9	4618.0
5271.4	7.5°	5246.5	5216.0	5121.9	5027.8	4886.6	4717.7	4512.8	4277.5	4067.1	4003.4
5484.6	10°	5451.4	5409.8	5290.8	5124.7	4811.8	4352.2	3856.7	3397.1	3031.6	2929.2
5736.5	12.5°	5683.9	5647.9	5490.1	5182.8	4499.0	3665.6	2907.0	2336.7	1982.3	1893.7
6005.1	15°	5960.8	5908.2	5689.5	5094.2	3939.7	2785.2	1996.2	1658.4	1531.0	1514.4
6312.4	17.5°	6254.3	6168.4	5866.7	4775.8	3186.7	1979.5	1542.1	1445.2	1389.8	1373.2
6622.5	20°	6522.8	6412.1	5971.9	4294.1	2381.0	1542.1	1381.5	1317.9	1268.0	1248.6
6932.6	22.5°	6791.4	6633.6	5971.9	3637.9	1785.7	1367.7	1268.0	1209.9	1151.7	1126.8
7264.8	25°	7071.0	6860.6	5866.7	2907.0	1436.9	1254.2	1160.0	1096.4	1046.5	1016.1
7580.4	27.5°	7342.3	7051.6	5625.8	2214.9	1279.1	1154.5	1060.4	999.5	952.4	930.2
7923.7	30°	7599.8	7239.9	5288.0	1680.5	1176.7	1057.6	969.0	916.4	869.3	847.2
8369.5	32.5°	7948.7	7478.0	4928.1	1378.8	1088.1	966.2	886.0	836.1	794.6	778.0
8948.1	35°	8433.2	7829.6	4618.0	1353.8	1013.3	891.5	811.2	764.1	722.6	708.8
9695.6	37.5°	9119.8	8397.2	4454.7	1520.0	952.4	825.0	750.3	700.5	661.7	650.6
10645.3	40°	9967.0	9166.8	4543.3	1686.1	910.9	766.9	694.9	645.1	611.9	598.0
11736.1	42.5°	10972.0	10116.5	5033.3	1813.4	883.2	717.1	642.3	586.9	564.8	559.3
12973.7	45°	12126.5	11160.2	5783.6	1949.1	838.9	670.0	589.7	548.2	531.6	528.8
14319.2	47.5°	13438.8	12306.4	6652.9	2118.0	794.6	625.7	548.2	520.5	506.7	501.1
15722.9	50°	14740.0	13460.9	7547.2	2212.1	758.6	584.2	515.0	492.8	481.7	479.0
17206.9	52.5°	16102.2	14648.7	8269.8	2123.5	728.1	551.0	487.3	470.7	459.6	456.8
18574.5	55°	17400.7	15609.4	8394.4	1802.4	667.2	517.7	456.8	448.5	434.7	434.7
19961.6	57.5°	18519.2	16091.1	7514.0	1323.4	606.3	467.9	426.4	418.1	407.0	404.2
21213.0	60°	19546.3	15952.7	5800.2	891.5	539.9	418.1	387.6	382.1	371.0	357.1
22301.1	62.5°	20125.0	15343.6	3967.4	581.4	473.4	365.5	343.3	340.5	315.6	287.9
23106.7	65°	20343.7	14092.2	2475.1	423.6	395.9	312.9	296.2	290.7	254.7	224.3
23563.6	67.5°	20152.6	12032.3	1248.6	335.0	312.9	260.2	243.6	243.6	218.7	191.0
23535.9	70°	19388.5	9020.1	526.0	268.6	240.9	199.3	199.3	210.4	185.5	155.0
22314.9	72.5°	17730.1	6068.8	279.6	204.9	180.0	141.2	163.3	171.7	146.7	116.3
18264.5	75°	14094.9	3701.6	193.8	152.3	113.5	99.7	124.6	130.1	99.7	77.5
12522.4	77.5°	9640.3	2126.3	130.1	96.9	72.0	58.1	85.8	80.3	52.6	36.0
4828.4	80°	4233.2	886.0	74.8	44.3	27.7	22.1	30.5	22.1	16.6	11.1
661.7	82.5°	495.6	207.6	27.7	16.6	11.1	5.5	2.8	0.0	0.0	0.0
202.1	85°	102.4	24.9	13.8	5.5	2.8	0.0	0.0	0.0	0.0	0.0
36.0	87.5°	19.4	5.5	2.8	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>
4966.9
4825.7
4612.5
3972.9
2890.4
1868.8
1497.8
1364.9
1237.6
1113.0
1005.0
930.2
850.0
778.0
708.8
647.9
595.2
559.3
526.0
501.1
479.0
456.8
431.9
401.4
354.4
282.4
221.5
188.3
152.3
116.3
74.8
38.8
11.1
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