

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: P944444

Luminaire Tested: **GALN-SB9B-927-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944444
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-SB9B-927-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 2700K, 450mA 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: 22798 lumens
Efficiency: N/A
Efficacy: 69.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

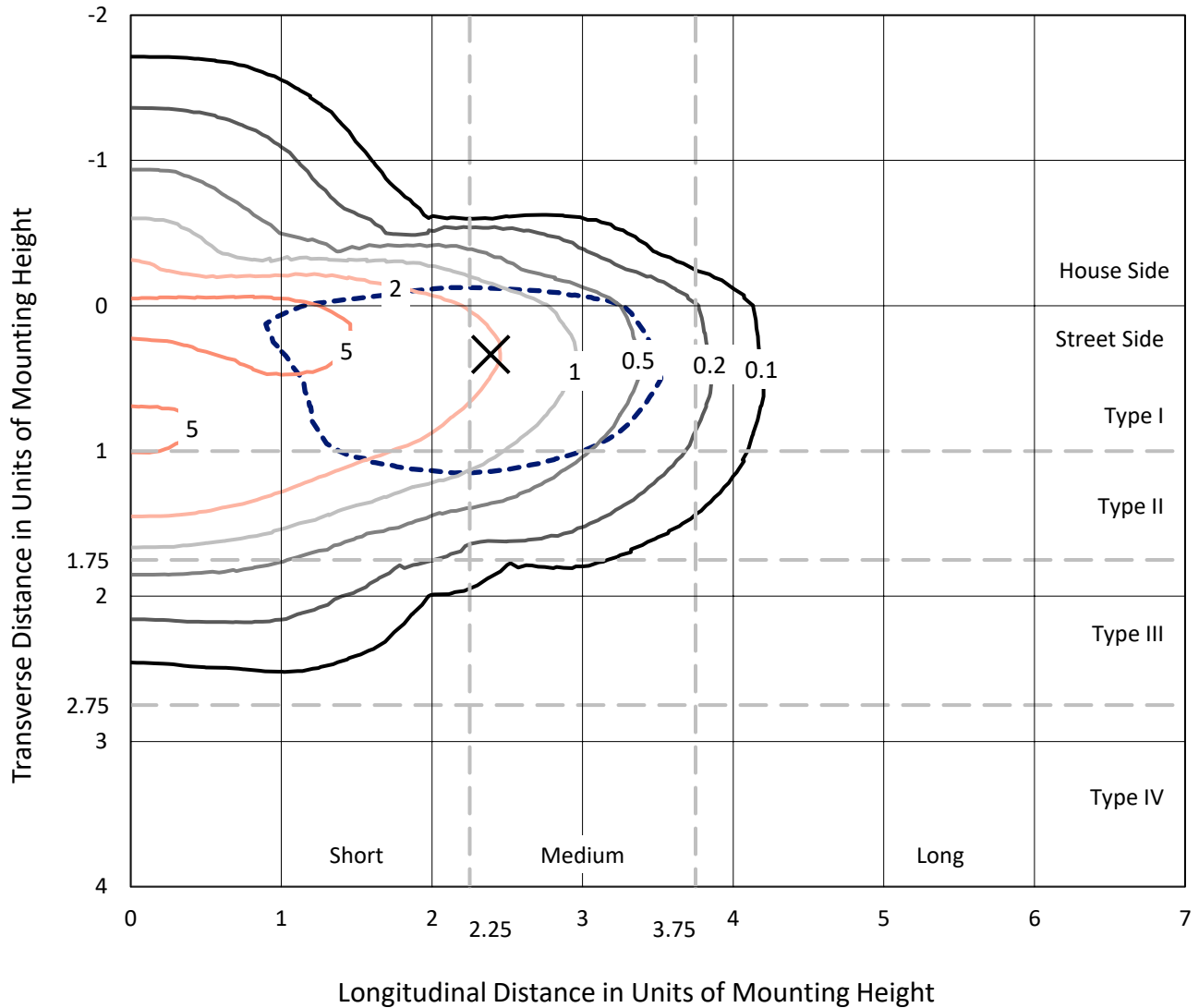
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

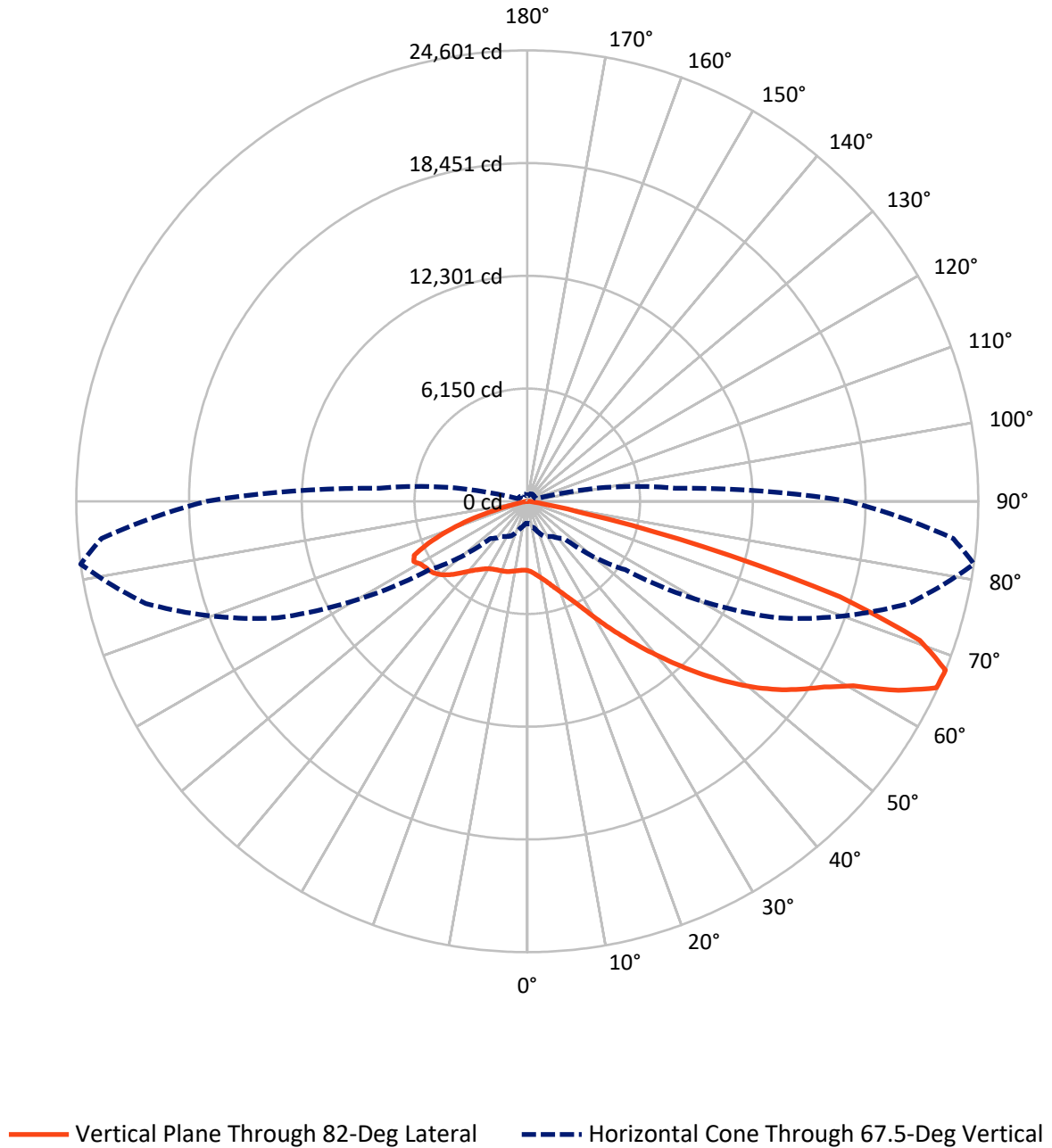
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4129.7	0.0	4129.7
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	18668.3	0.0	18668.3
	% Fixture	81.9	0.0	81.9
Total	Lumens	22798.0	0.0	22798.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.5	1.5
10°-20°	874.4	3.8
20°-30°	1400.5	6.1
30°-40°	2476.5	10.9
40°-50°	4339.1	19.0
50°-60°	5787.2	25.4
60°-70°	5387.6	23.6
70°-80°	2067.7	9.1
80°-90°	128.4	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°	22798.0	100.0
0°-180°	22798.0	100.0

Coefficient of Utilization



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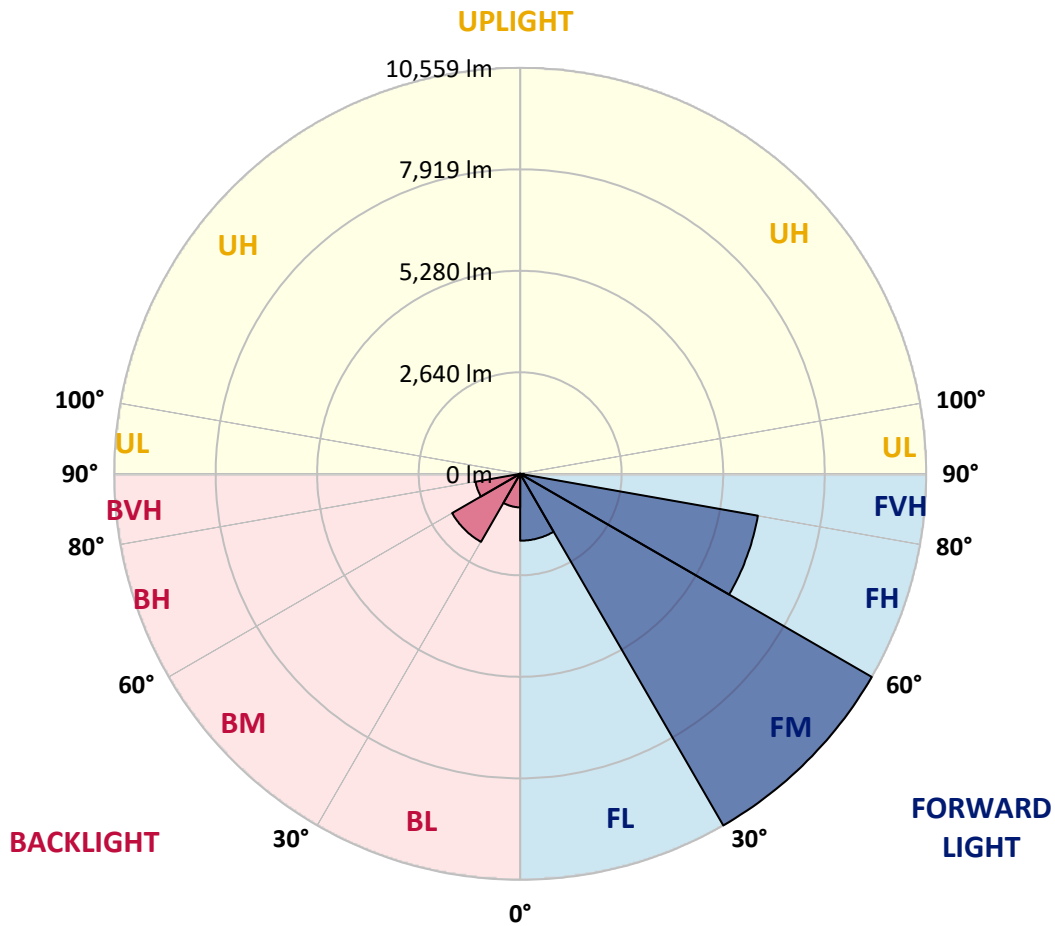
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1739.2	7.6			
FM (30°-60°)	10559.1	46.3			
FH (60°-80°)	6276.6	27.5			G3/7500
FVH (80°-90°)	93.4	0.4			G1/100
BL (0°-30°)	872.2	3.8	B2/1000		
BM (30°-60°)	2043.8	9.0	B2/2500		
BH (60°-80°)	1178.7	5.2	B3/2500		G3/2500
BVH (80°-90°)	35.1	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-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	3776.9	3776.9	3776.9	3776.9	3776.9	3776.9	3776.9	3776.9	3776.9	3776.9
2.5°	3991.9	4014.9	4001.7	3995.2	3983.7	3967.3	3954.1	3913.1	3870.4	3842.5
5°	4072.3	4095.3	4093.6	4100.2	4108.4	4113.3	4110.1	4064.1	4003.4	3955.8
7.5°	4003.4	4029.6	4051.0	4083.8	4141.2	4202.0	4231.5	4221.7	4159.3	4093.6
10°	3808.0	3835.9	3886.8	3964.0	4085.4	4216.8	4326.7	4377.6	4338.2	4266.0
12.5°	3450.2	3478.1	3578.2	3745.7	3949.2	4177.4	4387.5	4523.7	4533.5	4461.3
15°	3048.1	3076.0	3182.7	3392.8	3703.0	4069.0	4420.3	4678.0	4765.0	4702.6
17.5°	2798.6	2823.2	2903.6	3072.7	3396.1	3852.4	4408.8	4842.1	5040.7	4991.5
20°	2723.1	2744.4	2782.2	2900.4	3169.5	3627.5	4333.3	4996.4	5337.8	5309.9
22.5°	2803.5	2823.2	2834.7	2887.2	3056.3	3479.8	4238.1	5154.0	5682.5	5685.8
25°	2989.0	3008.7	2995.6	3028.4	3102.2	3433.8	4202.0	5339.5	6115.8	6152.0
27.5°	3294.3	3295.9	3264.7	3263.1	3274.6	3502.7	4239.7	5538.1	6662.4	6729.7
30°	3906.5	3881.9	3762.1	3632.4	3573.3	3709.6	4344.8	5772.8	7307.5	7427.3
32.5°	4850.3	4814.2	4594.3	4284.0	3972.2	4042.8	4533.5	6040.3	8010.0	8226.7
35°	5874.6	5864.7	5634.9	5173.7	4628.7	4517.1	4840.5	6391.6	8776.6	9121.2
37.5°	6826.6	6821.7	6690.3	6147.0	5483.9	5178.6	5332.9	6851.2	9597.3	10096.2
40°	7696.5	7711.3	7580.0	7094.1	6426.1	6027.2	6002.6	7419.1	10509.9	11158.2
42.5°	8448.3	8464.7	8331.7	7972.3	7356.7	6966.1	6824.9	8115.1	11401.2	12299.0
45°	8958.8	9060.5	9040.8	8753.6	8312.0	7906.6	7813.1	8988.3	12417.2	13508.7
47.5°	9103.2	9196.8	9344.5	9383.9	9114.7	8715.8	8827.4	10040.4	13444.7	14720.1
50°	8747.0	8834.0	9140.9	9549.7	9736.8	9613.7	9813.9	11168.1	14496.8	15928.1
52.5°	8044.5	8133.1	8520.5	9167.2	9930.5	10317.8	10803.7	12279.3	15516.1	17072.2
55°	7028.5	7122.0	7619.4	8351.4	9561.1	10608.4	11629.3	13388.9	16450.1	18101.3
57.5°	5646.4	5715.3	6232.4	7256.6	8632.1	10319.5	12238.3	14600.2	17329.9	19112.4
60°	3680.0	3740.7	4341.5	5483.9	7092.5	9354.3	12359.7	15951.1	18498.6	20427.2
62.5°	2447.3	2488.4	2844.5	3683.3	4994.8	7501.2	11649.0	17029.5	20212.2	22715.3
65°	1679.2	1720.2	2076.4	2660.7	3227.0	4961.9	9605.5	16886.7	21764.9	24532.3
67.5°	1198.2	1232.7	1534.7	2086.2	2335.7	2882.3	6511.4	15061.5	21541.7	24601.3
70°	858.5	878.1	1127.6	1625.0	1856.4	1731.7	3620.9	11519.3	18861.3	22717.0
72.5°	600.8	607.3	782.9	1237.6	1495.3	1263.9	1723.5	7680.1	14265.4	17830.5
75°	407.1	415.3	526.9	907.7	1199.9	965.1	912.6	4118.3	8374.4	9869.7
77.5°	249.5	252.8	339.8	620.4	897.8	735.3	587.6	1744.8	3240.1	3181.0
80°	141.2	141.2	216.7	385.7	612.2	474.4	412.0	741.9	1025.9	901.1
82.5°	78.8	80.4	157.6	239.6	405.4	280.7	226.5	343.1	443.2	392.3
85°	32.8	36.1	96.8	113.3	193.7	139.5	91.9	144.4	164.1	146.1
87.5°	3.3	4.9	29.5	21.3	23.0	27.9	13.1	27.9	23.0	23.0
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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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3776.9	0°	3776.9	3776.9	3776.9	3776.9	3776.9	3776.9	3776.9	3776.9	3776.9	3776.9
3832.7	2.5°	3801.5	3776.9	3714.5	3642.3	3547.1	3501.1	3438.7	3396.1	3359.9	3363.2
3927.9	5°	3875.3	3813.0	3673.4	3499.5	3282.8	3128.5	2964.4	2851.1	2759.2	2739.5
4059.2	7.5°	3977.1	3878.6	3634.1	3320.5	2954.5	2677.1	2429.3	2270.1	2156.8	2120.7
4218.4	10°	4108.4	3965.6	3583.2	3095.7	2568.8	2215.9	1950.0	1825.2	1748.1	1721.8
4405.5	12.5°	4261.1	4065.7	3515.9	2821.6	2171.6	1831.8	1662.7	1600.4	1575.7	1567.5
4635.3	15°	4453.1	4190.5	3414.1	2496.6	1835.1	1597.1	1524.9	1516.7	1519.9	1516.7
4911.1	17.5°	4681.3	4326.7	3248.3	2161.7	1608.6	1477.3	1451.0	1457.6	1465.8	1464.1
5219.6	20°	4930.8	4461.3	3036.6	1864.6	1454.3	1391.9	1377.1	1383.7	1390.3	1387.0
5575.8	22.5°	5214.7	4605.8	2801.9	1633.2	1350.9	1313.1	1296.7	1298.3	1298.3	1291.8
6027.2	25°	5554.5	4765.0	2555.7	1469.1	1272.1	1242.5	1222.8	1216.3	1206.4	1186.7
6575.4	27.5°	5959.9	4934.0	2319.3	1354.2	1209.7	1181.8	1158.8	1142.4	1117.8	1085.0
7233.6	30°	6416.2	5139.2	2119.0	1281.9	1160.5	1132.6	1106.3	1081.7	1045.6	1004.5
7990.3	32.5°	6953.0	5359.2	1973.0	1234.3	1116.2	1086.6	1055.4	1025.9	986.5	945.4
8840.6	35°	7593.1	5625.1	1887.6	1201.5	1081.7	1042.3	1007.8	975.0	945.4	909.3
9764.7	37.5°	8287.4	5907.4	1861.3	1185.1	1058.7	998.0	958.6	935.6	932.3	911.0
10764.3	40°	9047.4	6242.2	1881.0	1175.2	1034.1	955.3	912.6	907.7	915.9	878.1
11832.8	42.5°	9851.7	6639.5	1913.9	1163.8	999.6	912.6	871.6	871.6	865.0	812.5
12962.1	45°	10721.6	7097.4	1946.7	1135.8	958.6	869.9	838.8	827.3	799.4	748.5
14098.0	47.5°	11598.1	7563.6	1971.3	1085.0	909.3	833.8	805.9	779.7	738.6	692.7
15212.5	50°	12430.3	7982.1	1945.1	1009.5	853.5	799.4	769.8	733.7	689.4	658.2
16267.9	52.5°	13173.9	8344.9	1833.4	920.8	794.4	763.3	737.0	699.2	663.1	630.3
17219.9	55°	13820.6	8638.7	1636.5	837.1	741.9	732.1	705.8	658.2	609.0	581.1
18163.7	57.5°	14441.0	8861.9	1390.3	768.2	694.3	697.6	658.2	615.5	569.6	540.0
19435.8	60°	15266.6	9160.6	1140.8	704.2	643.4	653.3	610.6	579.4	522.0	484.2
21617.2	62.5°	16586.3	9625.2	906.1	625.4	584.3	587.6	569.6	531.8	462.9	418.6
23234.0	65°	17633.5	9454.5	714.0	540.0	517.0	522.0	522.0	480.9	407.1	356.2
23321.0	67.5°	17515.4	8095.4	569.6	456.3	453.0	456.3	467.8	433.3	361.1	320.1
21545.0	70°	16134.9	6439.2	456.3	379.2	393.9	385.7	418.6	395.6	325.0	284.0
16702.9	72.5°	13165.7	4638.6	348.0	313.5	302.0	315.1	377.5	356.2	270.8	224.9
8847.1	75°	7693.2	2475.2	259.3	247.9	218.3	262.6	334.8	303.7	206.8	165.8
2711.6	77.5°	2504.8	863.4	190.4	182.2	162.5	211.7	285.6	256.1	169.1	131.3
794.4	80°	671.3	261.0	129.7	119.8	105.0	157.6	226.5	203.5	121.5	85.4
341.4	82.5°	269.2	110.0	75.5	67.3	57.4	108.3	178.9	164.1	90.3	54.2
106.7	85°	87.0	36.1	27.9	21.3	26.3	67.3	106.7	111.6	64.0	27.9
16.4	87.5°	11.5	4.9	4.9	6.6	4.9	11.5	32.8	31.2	18.1	3.3
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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180°
3776.9
3330.4
2695.2
2084.6
1702.1
1562.6
1515.0
1460.8
1385.3
1288.5
1183.4
1081.7
1001.3
947.1
906.1
909.3
879.8
812.5
746.8
691.0
653.3
627.0
577.8
536.7
479.3
415.3
351.3
313.5
279.0
219.9
160.9
126.4
83.7
54.2
21.3
0.0
0.0

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