

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: P950539

Luminaire Tested: **GALN-SB4D-950-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950539
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4D-950-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29126 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

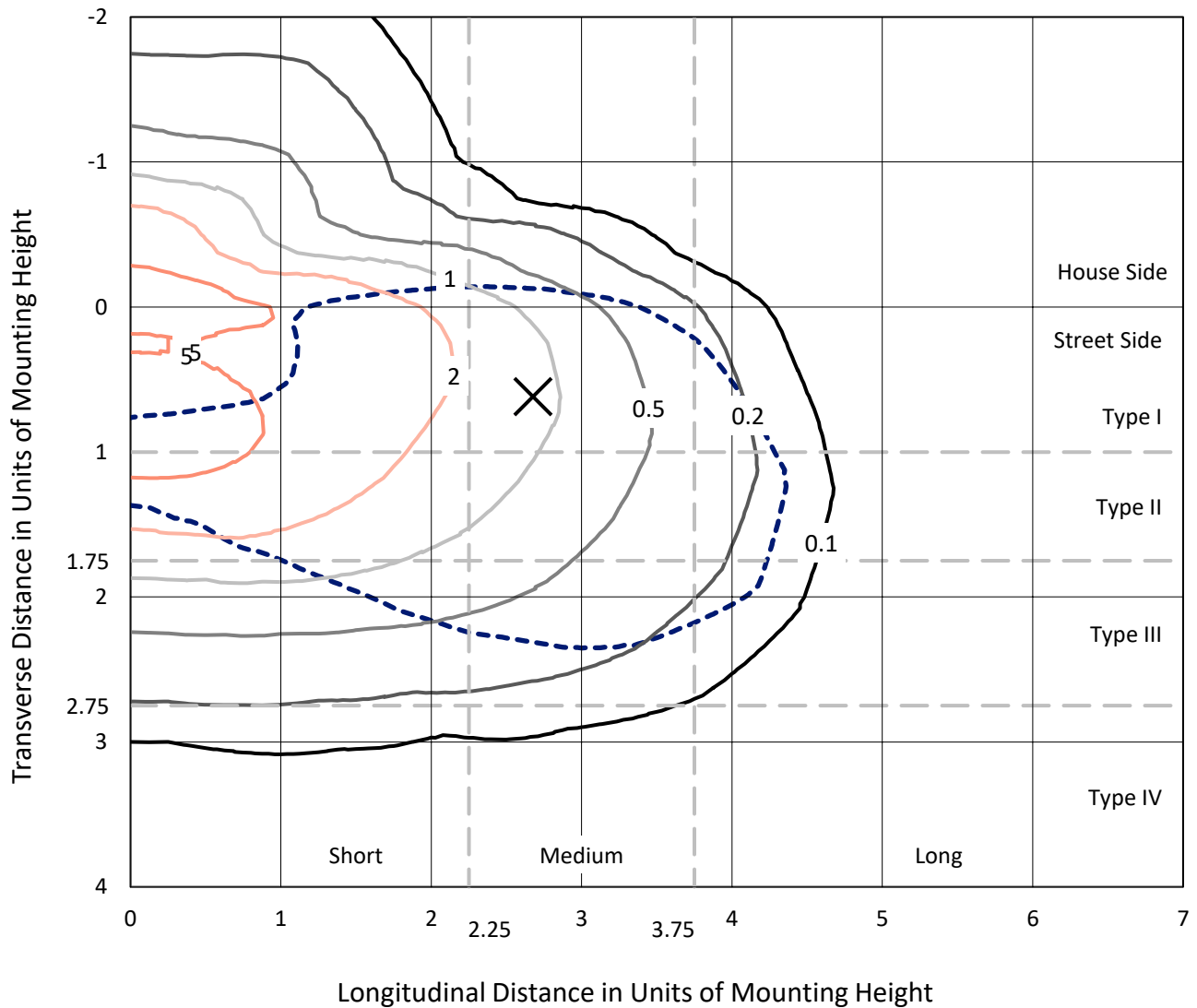
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

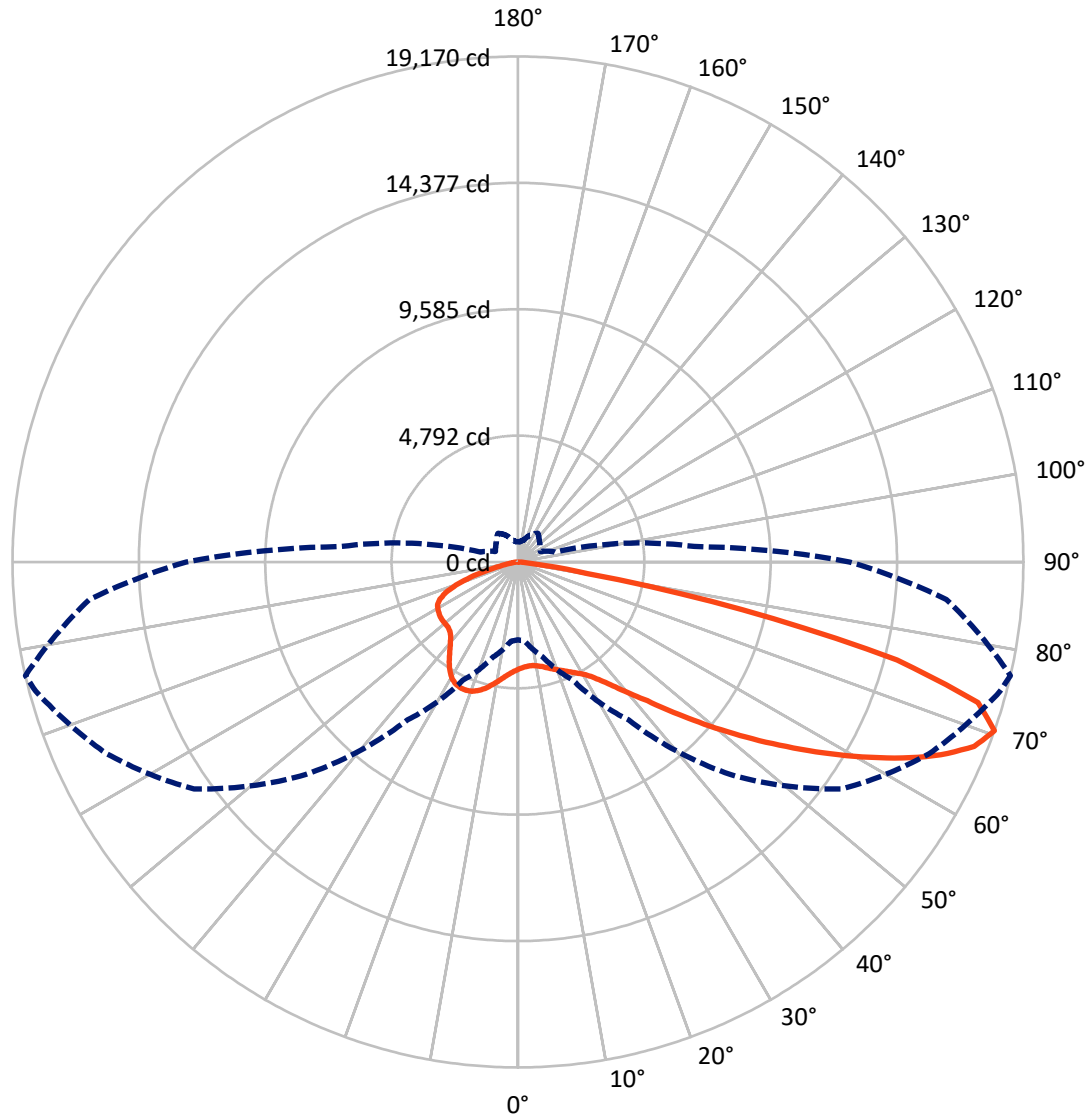
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6378.1	0.0	6378.1
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	22747.9	0.0	22747.9
	% Fixture	78.1	0.0	78.1
Total	Lumens	29126.0	0.0	29126.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	387.5	1.3
10°-20°	1118.5	3.8
20°-30°	1912.7	6.6
30°-40°	3075.9	10.6
40°-50°	4802.2	16.5
50°-60°	6414.6	22.0
60°-70°	6837.0	23.5
70°-80°	4208.8	14.5
80°-90°	368.8	1.3
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°	29126.0	100.0
0°-180°	29126.0	100.0



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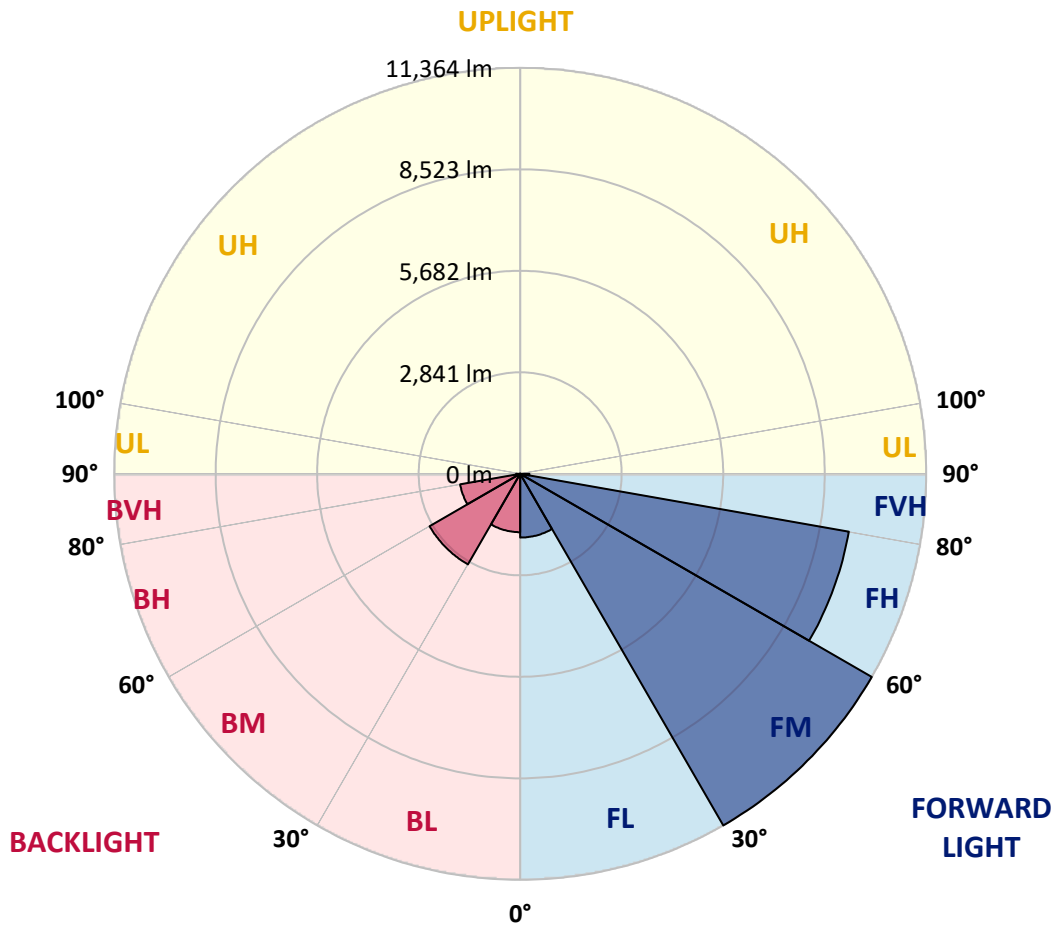
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1784.4	6.1			
FM (30°-60°)	11364.3	39.0			
FH (60°-80°)	9341.2	32.1			G4/12000
FVH (80°-90°)	257.9	0.9			G3/500
BL (0°-30°)	1634.3	5.6	B3/2500		
BM (30°-60°)	2928.3	10.1	B3/5000		
BH (60°-80°)	1704.6	5.9	B3/2500		G3/2500
BVH (80°-90°)	110.9	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	4063.3	4063.3	4063.3	4063.3	4063.3	4063.3	4063.3	4063.3	4063.3	4063.3
2.5°	3745.6	3744.1	3763.5	3769.5	3805.3	3830.6	3878.4	3929.1	3994.7	4002.2
5°	3529.3	3529.3	3551.7	3575.6	3621.8	3672.5	3745.6	3833.6	3947.0	3964.9
7.5°	3345.8	3357.8	3377.2	3423.4	3477.1	3550.2	3662.1	3787.4	3936.5	3964.9
10°	3198.2	3211.6	3235.5	3272.8	3353.3	3454.7	3600.9	3762.0	3961.9	4006.7
12.5°	3151.9	3165.3	3178.8	3207.1	3281.7	3401.0	3575.6	3774.0	4023.1	4067.8
15°	3259.3	3275.7	3265.3	3257.8	3296.6	3405.5	3587.5	3817.2	4099.1	4163.3
17.5°	3506.9	3512.9	3489.0	3418.9	3413.0	3471.1	3644.2	3876.9	4194.6	4264.7
20°	3906.7	3896.3	3847.0	3708.3	3629.3	3617.3	3741.1	3966.4	4293.1	4367.6
22.5°	4449.7	4437.8	4339.3	4120.0	3944.0	3827.7	3881.4	4082.7	4403.4	4487.0
25°	5126.9	5110.5	4965.8	4667.5	4394.5	4106.6	4072.3	4236.4	4539.2	4616.8
27.5°	5917.5	5904.1	5747.5	5353.6	4959.8	4488.5	4309.5	4416.9	4680.9	4768.9
30°	6767.8	6806.5	6529.1	6105.5	5607.2	4986.7	4628.7	4639.1	4864.4	4943.4
32.5°	7767.2	7834.3	7500.2	6963.2	6283.0	5528.2	5031.4	4949.4	5131.4	5197.0
35°	8757.7	8833.7	8556.3	7962.6	7179.5	6166.6	5452.1	5305.9	5486.4	5558.0
37.5°	9613.9	9715.3	9572.1	9056.0	8138.6	6936.3	6001.0	5725.1	5923.5	6013.0
40°	10289.6	10444.8	10434.3	10112.1	9269.3	7870.1	6697.7	6242.7	6466.4	6563.4
42.5°	10838.6	10972.8	11089.2	11072.8	10449.2	8930.7	7516.6	6915.4	7085.5	7197.4
45°	11217.5	11360.7	11611.3	11881.2	11584.4	10065.9	8454.9	7713.5	7868.6	8037.2
47.5°	11556.1	11718.7	12043.8	12472.0	12548.0	11205.5	9482.6	8642.8	8784.5	8959.0
50°	11585.9	11726.1	12230.3	12837.4	13232.7	12300.4	10586.5	9685.5	9818.3	10004.7
52.5°	10865.4	11086.2	11966.3	12827.0	13547.5	13216.3	11682.9	10769.9	10919.1	11142.9
55°	8434.0	8757.7	11192.1	12427.2	13435.6	13808.5	12725.5	11923.0	12114.0	12348.1
57.5°	7264.5	7406.2	8884.5	11699.3	12925.4	13962.1	13605.6	13088.0	13395.3	13651.9
60°	6529.1	6646.9	7521.1	10567.1	12254.2	13719.0	14285.8	14174.0	14705.0	15010.8
62.5°	5741.5	5853.4	6648.4	8823.3	11395.0	13314.8	14715.4	15176.4	16047.5	16381.7
65°	4959.8	5055.3	5817.6	7413.7	10303.0	12910.5	14937.7	16043.0	17290.1	17636.2
67.5°	4088.7	4167.8	4888.2	6254.6	8975.5	12357.1	15048.1	16724.7	18371.6	18668.4
70°	2950.5	3011.7	3756.1	4946.4	7309.2	11405.4	15003.3	17208.0	18932.4	19169.6
72.5°	1394.7	1449.9	2324.0	3211.6	5162.7	9552.7	14097.9	16824.7	18362.6	18244.8
75°	744.3	792.1	1335.1	1761.7	2726.8	6548.5	11536.7	14493.2	15419.5	14846.7
77.5°	504.2	541.5	826.4	1057.6	1245.6	3108.7	7415.2	10034.5	9654.2	8708.4
80°	399.8	438.6	677.2	716.0	602.6	1123.2	3063.9	4645.1	3336.9	2668.6
82.5°	307.3	350.5	569.8	519.1	328.2	460.9	892.0	1469.3	854.7	650.4
85°	188.0	234.2	447.5	331.2	185.0	210.3	302.8	408.7	261.0	217.8
87.5°	95.5	134.3	226.7	120.8	83.5	49.2	80.6	80.6	68.6	59.7
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°
4063.3	0°	4063.3	4063.3	4063.3	4063.3	4063.3	4063.3	4063.3	4063.3	4063.3	4063.3
4042.5	2.5°	4078.3	4108.1	4158.8	4206.5	4243.8	4279.6	4315.4	4334.8	4340.8	4364.7
4064.8	5°	4126.0	4181.2	4279.6	4372.1	4430.3	4466.1	4491.5	4506.4	4509.4	4516.8
4126.0	7.5°	4214.0	4302.0	4439.2	4531.7	4575.0	4572.0	4561.6	4524.3	4509.4	4495.9
4215.5	10°	4337.8	4454.2	4622.7	4686.9	4660.0	4588.4	4495.9	4387.0	4336.3	4287.1
4337.8	12.5°	4491.5	4639.1	4804.7	4801.7	4669.0	4485.5	4270.7	4103.6	3997.7	3921.6
4488.5	15°	4677.9	4848.0	4974.8	4873.3	4582.4	4252.8	3938.0	3720.3	3624.8	3541.3
4640.6	17.5°	4870.3	5052.3	5110.5	4851.0	4364.7	3908.2	3551.7	3380.2	3286.2	3241.4
4804.7	20°	5058.3	5238.8	5191.1	4722.7	4033.5	3517.4	3199.7	3105.7	3086.3	3096.7
4964.3	22.5°	5256.7	5417.8	5207.5	4475.0	3611.4	3117.6	2943.1	2946.1	2989.3	3020.7
5131.4	25°	5459.6	5568.5	5164.2	4117.0	3157.9	2823.8	2780.5	2828.2	2913.3	2974.4
5319.3	27.5°	5655.0	5702.7	5070.2	3674.0	2768.6	2613.4	2620.9	2719.3	2847.6	2932.6
5547.6	30°	5875.7	5822.0	4889.7	3175.8	2498.6	2432.9	2495.6	2610.4	2738.7	2814.8
5835.5	32.5°	6124.8	5925.0	4603.3	2714.9	2307.6	2288.2	2391.2	2465.8	2522.4	2544.8
6217.3	35°	6435.1	6069.7	4236.4	2391.2	2136.1	2182.3	2280.8	2243.5	2221.1	2209.2
6730.5	37.5°	6837.9	6265.1	3806.8	2180.8	1997.4	2106.3	2146.5	2030.2	1942.2	1898.9
7352.5	40°	7322.7	6551.5	3393.6	2018.2	1909.4	2040.6	1970.5	1830.3	1718.4	1657.3
8052.1	42.5°	7861.2	6851.3	3046.0	1895.9	1860.1	1986.9	1840.7	1673.7	1493.2	1473.8
8886.0	45°	8426.5	7160.1	2808.8	1802.0	1836.3	1940.7	1766.2	1496.2	1367.9	1446.9
9722.8	47.5°	8991.9	7443.5	2665.6	1731.8	1824.3	1888.5	1700.5	1397.7	1306.7	1421.6
10619.3	50°	9621.4	7697.1	2601.5	1681.1	1810.9	1867.6	1602.1	1372.3	1242.6	1318.6
11547.1	52.5°	10246.4	7894.0	2553.8	1630.4	1791.5	1851.2	1554.3	1342.5	1165.0	1169.5
12480.9	55°	10869.9	8022.3	2501.6	1563.3	1748.3	1815.4	1549.9	1309.7	1106.8	1085.9
13468.4	57.5°	11535.2	8095.4	2437.4	1488.7	1673.7	1724.4	1545.4	1284.3	1088.9	1054.6
14478.3	60°	12212.4	8202.8	2353.9	1397.7	1573.7	1615.5	1534.9	1275.4	1078.5	1020.3
15430.0	62.5°	12819.5	8240.1	2253.9	1311.2	1445.4	1508.1	1512.6	1267.9	1050.1	950.2
16220.6	65°	13217.8	8079.0	2079.4	1212.7	1306.7	1397.7	1469.3	1242.6	999.4	899.5
16611.4	67.5°	13201.4	7619.5	1806.4	1085.9	1172.5	1275.4	1406.7	1199.3	938.3	836.8
16316.0	70°	12586.8	6712.6	1460.4	938.3	1024.8	1144.1	1326.1	1135.2	865.2	768.2
14508.1	72.5°	10795.3	5253.7	1060.6	765.2	853.2	1008.4	1221.7	1057.6	790.6	707.1
10722.2	75°	7712.0	3325.0	719.0	587.7	663.8	854.7	1091.9	966.6	722.0	710.0
5370.1	77.5°	3939.5	1588.6	475.8	429.6	462.4	674.2	917.4	863.7	732.4	586.2
1527.5	80°	1281.4	586.2	299.8	292.4	307.3	449.0	710.0	708.5	554.9	398.3
369.9	82.5°	408.7	252.1	195.4	188.0	180.5	281.9	495.2	560.9	374.4	252.1
132.8	85°	162.6	150.7	114.9	105.9	76.1	132.8	259.6	372.9	278.9	182.0
34.3	87.5°	59.7	59.7	31.3	22.4	16.4	44.8	70.1	111.9	159.6	94.0
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>
4063.3
4378.1
4528.7
4498.9
4272.2
3903.7
3532.3
3254.9
3092.3
3028.1
2990.8
2953.5
2832.7
2556.7
2221.1
1909.4
1661.7
1493.2
1488.7
1475.3
1375.3
1200.8
1100.9
1059.1
1024.8
950.2
899.5
841.3
777.2
702.6
669.8
522.1
352.0
250.6
186.5
92.5
0.0

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