

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: P956545

Luminaire Tested: **GALN-SB9A-930-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956545
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-SB9A-930-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29179 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

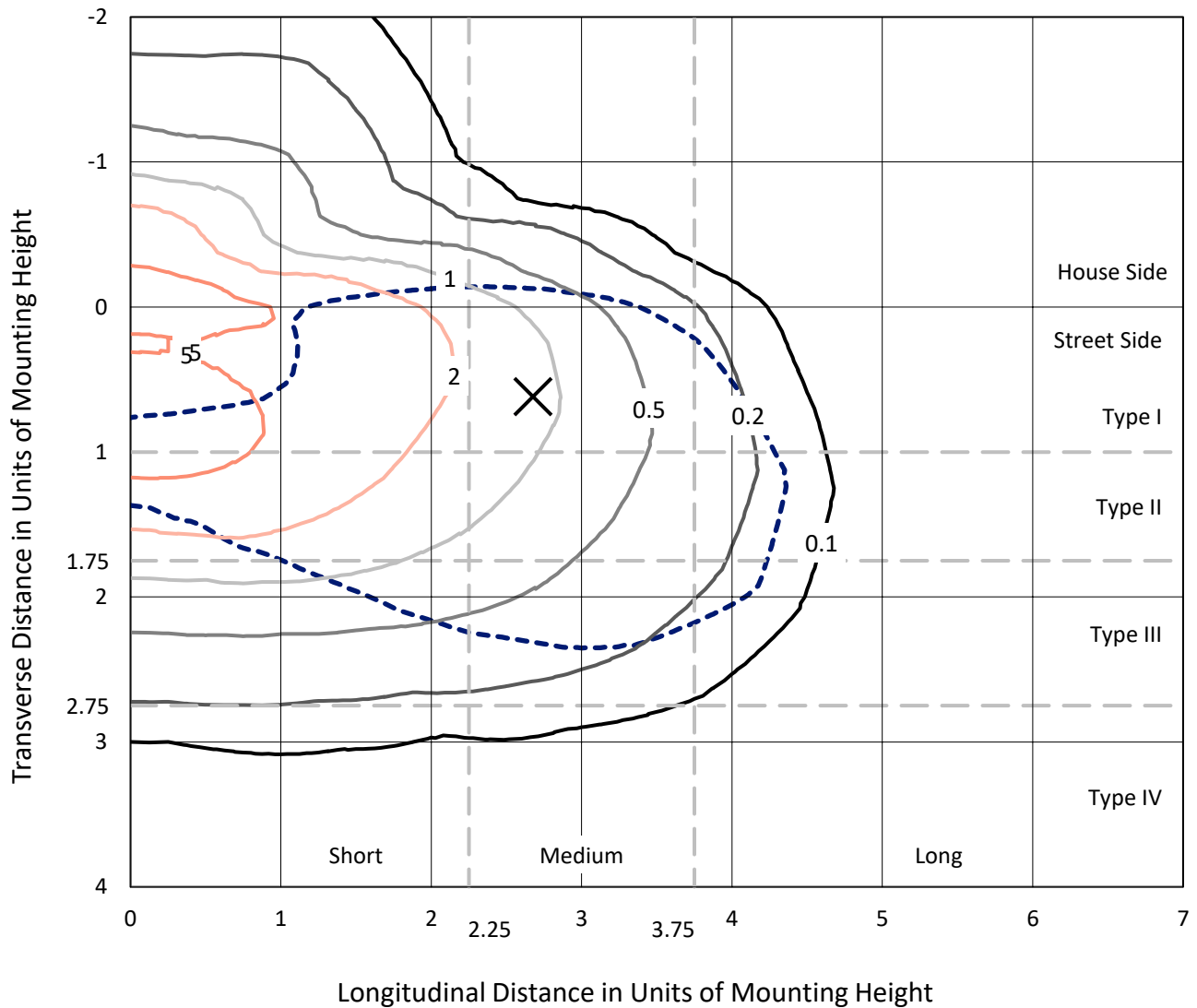
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

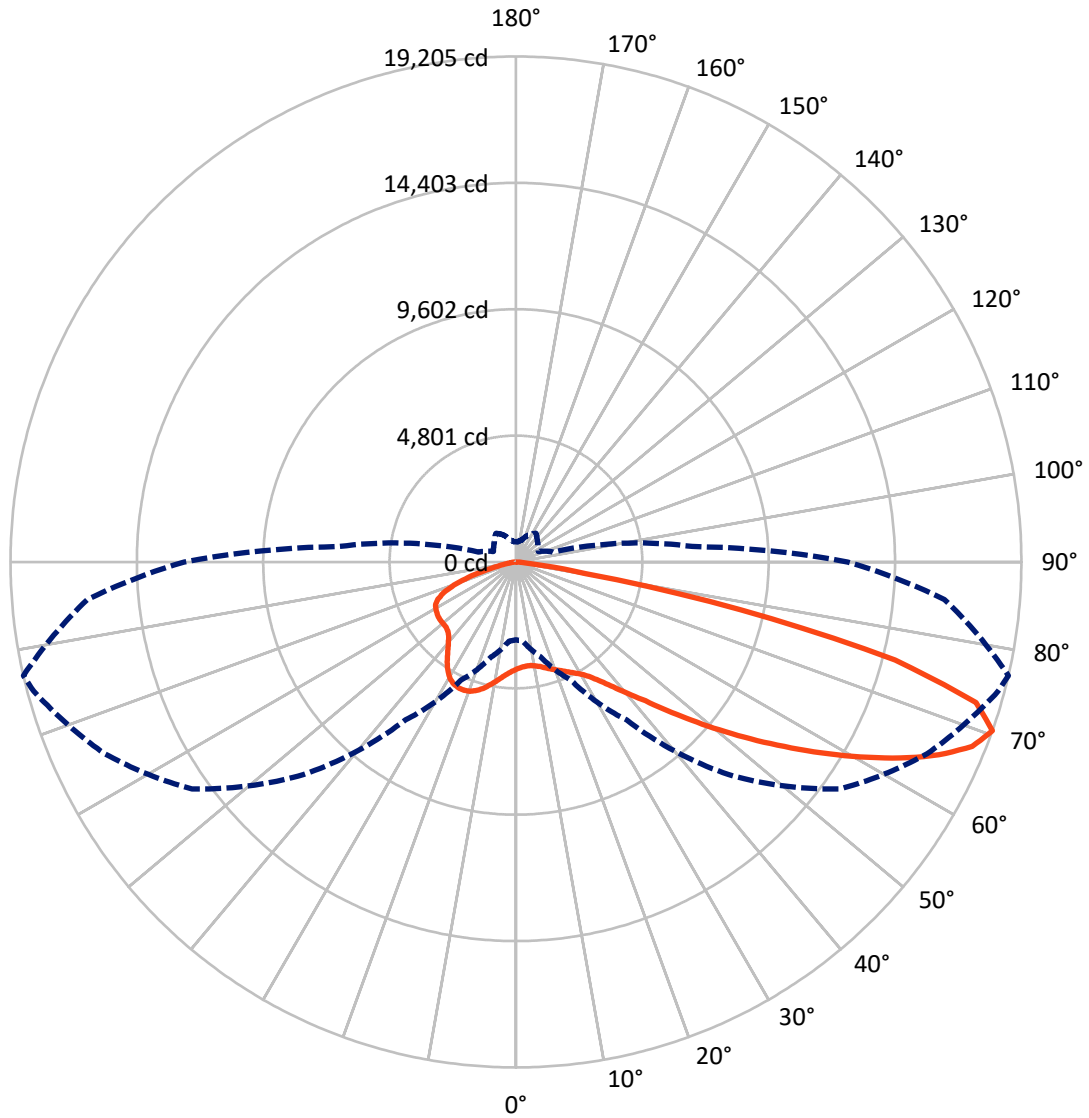
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	6389.7	0.0	6389.7
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	22789.3	0.0	22789.3
	% Fixture	78.1	0.0	78.1
Total	Lumens	29179.0	0.0	29179.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	388.2	1.3
10°-20°	1120.5	3.8
20°-30°	1916.2	6.6
30°-40°	3081.4	10.6
40°-50°	4811.0	16.5
50°-60°	6426.3	22.0
60°-70°	6849.4	23.5
70°-80°	4216.5	14.5
80°-90°	369.5	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°	29179.0	100.0
0°-180°	29179.0	100.0

Coefficient of Utilization



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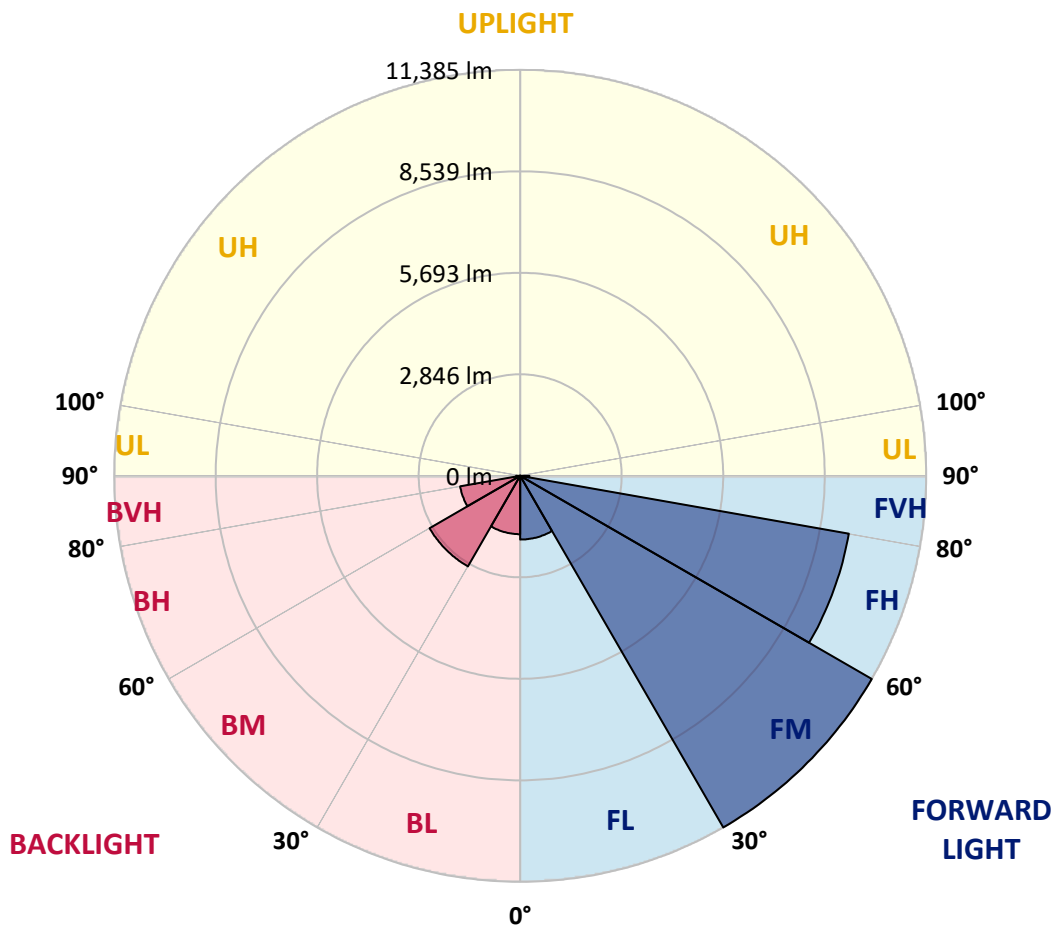
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1787.7	6.1			
FM (30°-60°)	11385.0	39.0			
FH (60°-80°)	9358.2	32.1			G4/12000
FVH (80°-90°)	258.4	0.9			G3/500
BL (0°-30°)	1637.3	5.6	B3/2500		
BM (30°-60°)	2933.7	10.1	B3/5000		
BH (60°-80°)	1707.7	5.9	B3/2500		G3/2500
BVH (80°-90°)	111.1	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°	4070.7	4070.7	4070.7	4070.7	4070.7	4070.7	4070.7	4070.7	4070.7	4070.7
2.5°	3752.4	3750.9	3770.4	3776.3	3812.2	3837.6	3885.4	3936.2	4002.0	4009.5
5°	3535.7	3535.7	3558.2	3582.1	3628.4	3679.2	3752.4	3840.6	3954.2	3972.1
7.5°	3351.9	3363.9	3383.3	3429.6	3483.4	3556.7	3668.7	3794.3	3943.7	3972.1
10°	3204.0	3217.4	3241.3	3278.7	3359.4	3461.0	3607.5	3768.9	3969.1	4013.9
12.5°	3157.7	3171.1	3184.6	3213.0	3287.7	3407.2	3582.1	3780.8	4030.4	4075.2
15°	3265.3	3281.7	3271.2	3263.8	3302.6	3411.7	3594.0	3824.2	4106.6	4170.9
17.5°	3513.3	3519.3	3495.4	3425.2	3419.2	3477.5	3650.8	3883.9	4202.2	4272.5
20°	3913.8	3903.4	3854.0	3715.1	3635.9	3623.9	3747.9	3973.6	4300.9	4375.6
22.5°	4457.8	4445.8	4347.2	4127.5	3951.2	3834.6	3888.4	4090.2	4411.5	4495.1
25°	5136.2	5119.8	4974.8	4676.0	4402.5	4114.1	4079.7	4244.1	4547.4	4625.2
27.5°	5928.3	5914.8	5757.9	5363.4	4968.9	4496.6	4317.3	4424.9	4689.4	4777.6
30°	6780.1	6818.9	6541.0	6116.6	5617.4	4995.8	4637.1	4647.6	4873.2	4952.4
32.5°	7781.3	7848.6	7513.8	6975.8	6294.4	5538.2	5040.6	4958.4	5140.7	5206.5
35°	8773.6	8849.8	8571.9	7977.1	7192.5	6177.8	5462.0	5315.6	5496.4	5568.1
37.5°	9631.4	9733.0	9589.5	9072.5	8153.4	6948.9	6012.0	5735.5	5934.2	6023.9
40°	10308.3	10463.8	10453.3	10130.5	9286.2	7884.4	6709.8	6254.1	6478.2	6575.3
42.5°	10858.3	10992.8	11109.3	11092.9	10468.2	8947.0	7530.3	6928.0	7098.4	7210.5
45°	11237.9	11381.3	11632.4	11902.9	11605.5	10084.2	8470.2	7727.5	7882.9	8051.8
47.5°	11577.1	11740.0	12065.8	12494.7	12570.9	11225.9	9499.9	8658.5	8800.5	8975.3
50°	11607.0	11747.5	12252.6	12860.8	13256.8	12322.8	10605.7	9703.1	9836.1	10022.9
52.5°	10885.2	11106.4	11988.1	12850.3	13572.1	13240.4	11704.1	10789.5	10939.0	11163.1
55°	8449.3	8773.6	11212.5	12449.8	13460.0	13833.6	12748.7	11944.7	12136.0	12370.6
57.5°	7277.7	7419.7	8900.6	11720.6	12948.9	13987.6	13630.4	13111.8	13419.7	13676.7
60°	6541.0	6659.0	7534.7	10586.3	12276.5	13744.0	14311.8	14199.8	14731.8	15038.1
62.5°	5751.9	5864.0	6660.5	8839.4	11415.7	13339.0	14742.2	15204.0	16076.7	16411.5
65°	4968.9	5064.5	5828.1	7427.2	10321.8	12934.0	14964.9	16072.2	17321.6	17668.3
67.5°	4096.1	4175.3	4897.1	6266.0	8991.8	12379.6	15075.5	16755.2	18405.0	18702.4
70°	2955.9	3017.2	3762.9	4955.4	7322.5	11426.2	15030.6	17239.4	18966.9	19204.5
72.5°	1397.3	1452.6	2328.3	3217.4	5172.1	9570.1	14123.5	16855.3	18396.0	18278.0
75°	745.7	793.5	1337.5	1764.9	2731.8	6560.4	11557.7	14519.6	15447.6	14873.7
77.5°	505.1	542.5	827.9	1059.5	1247.8	3114.3	7428.6	10052.8	9671.7	8724.3
80°	400.5	439.4	678.5	717.3	603.7	1125.3	3069.5	4653.6	3343.0	2673.5
82.5°	307.8	351.2	570.9	520.1	328.8	461.8	893.6	1472.0	856.3	651.6
85°	188.3	234.6	448.3	331.8	185.3	210.7	303.4	409.5	261.5	218.2
87.5°	95.6	134.5	227.1	121.0	83.7	49.3	80.7	80.7	68.7	59.8
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°
4070.7	0°	4070.7	4070.7	4070.7	4070.7	4070.7	4070.7	4070.7	4070.7	4070.7	4070.7
4049.8	2.5°	4085.7	4115.6	4166.4	4214.2	4251.6	4287.4	4323.3	4342.7	4348.7	4372.6
4072.2	5°	4133.5	4188.8	4287.4	4380.1	4438.4	4474.2	4499.6	4514.6	4517.6	4525.0
4133.5	7.5°	4221.7	4309.8	4447.3	4540.0	4583.3	4580.3	4569.9	4532.5	4517.6	4504.1
4223.2	10°	4345.7	4462.3	4631.1	4695.4	4668.5	4596.8	4504.1	4395.0	4344.2	4294.9
4345.7	12.5°	4499.6	4647.6	4813.5	4810.5	4677.5	4493.7	4278.5	4111.1	4005.0	3928.8
4496.6	15°	4686.4	4856.8	4983.8	4882.2	4590.8	4260.5	3945.2	3727.0	3631.4	3547.7
4649.1	17.5°	4879.2	5061.5	5119.8	4859.8	4372.6	3915.3	3558.2	3386.3	3292.2	3247.3
4813.5	20°	5067.5	5248.3	5200.5	4731.3	4040.8	3523.8	3205.5	3111.3	3091.9	3102.4
4973.4	22.5°	5266.3	5427.6	5216.9	4483.2	3617.9	3123.3	2948.4	2951.4	2994.8	3026.2
5140.7	25°	5469.5	5578.6	5173.6	4124.5	3163.6	2828.9	2785.6	2833.4	2918.6	2979.8
5329.0	27.5°	5665.3	5713.1	5079.5	3680.7	2773.6	2618.2	2625.7	2724.3	2852.8	2938.0
5557.7	30°	5886.4	5832.6	4898.6	3181.6	2503.1	2437.4	2500.1	2615.2	2743.7	2819.9
5846.1	32.5°	6136.0	5935.7	4611.7	2719.8	2311.8	2292.4	2395.5	2470.2	2527.0	2549.4
6228.6	35°	6446.8	6080.7	4244.1	2395.5	2140.0	2186.3	2284.9	2247.6	2225.2	2213.2
6742.7	37.5°	6850.3	6276.5	3813.7	2184.8	2001.0	2110.1	2150.4	2033.9	1945.7	1902.4
7365.9	40°	7336.0	6563.4	3399.8	2021.9	1912.8	2044.3	1974.1	1833.6	1721.5	1660.3
8066.8	42.5°	7875.5	6863.8	3051.6	1899.4	1863.5	1990.5	1844.1	1676.7	1495.9	1476.5
8902.1	45°	8441.8	7173.1	2813.9	1805.2	1839.6	1944.2	1769.4	1498.9	1370.4	1449.6
9740.5	47.5°	9008.2	7457.0	2670.5	1735.0	1827.6	1891.9	1703.6	1400.2	1309.1	1424.2
10638.6	50°	9638.9	7711.1	2606.2	1684.2	1814.2	1871.0	1605.0	1374.8	1244.8	1321.0
11568.1	52.5°	10265.0	7908.3	2558.4	1633.4	1794.8	1854.5	1557.2	1345.0	1167.1	1171.6
12503.6	55°	10889.7	8036.9	2506.1	1566.1	1751.4	1818.7	1552.7	1312.1	1108.8	1087.9
13492.9	57.5°	11556.2	8110.1	2441.8	1491.4	1676.7	1727.5	1548.2	1286.7	1090.9	1056.5
14504.6	60°	12234.6	8217.7	2358.2	1400.2	1576.6	1618.4	1537.7	1277.7	1080.4	1022.2
15458.0	62.5°	12842.8	8255.0	2258.0	1313.6	1448.1	1510.8	1515.3	1270.2	1052.1	951.9
16250.1	65°	13241.8	8093.7	2083.2	1214.9	1309.1	1400.2	1472.0	1244.8	1001.2	901.1
16641.6	67.5°	13225.4	7633.4	1809.7	1087.9	1174.6	1277.7	1409.2	1201.5	940.0	838.4
16345.7	70°	12609.7	6724.8	1463.0	940.0	1026.7	1146.2	1328.5	1137.2	866.8	769.6
14534.5	72.5°	10814.9	5263.3	1062.5	766.6	854.8	1010.2	1223.9	1059.5	792.0	708.3
10741.7	75°	7726.0	3331.0	720.3	588.8	665.0	856.3	1093.9	968.4	723.3	711.3
5379.8	77.5°	3946.7	1591.5	476.7	430.4	463.3	675.5	919.1	865.3	733.7	587.3
1530.3	80°	1283.7	587.3	300.4	292.9	307.8	449.8	711.3	709.8	555.9	399.0
370.6	82.5°	409.5	252.6	195.8	188.3	180.8	282.4	496.1	561.9	375.1	252.6
133.0	85°	162.9	150.9	115.1	106.1	76.2	133.0	260.0	373.6	279.5	182.3
34.4	87.5°	59.8	59.8	31.4	22.4	16.4	44.8	70.2	112.1	159.9	94.1
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>
4070.7
4386.1
4537.0
4507.1
4280.0
3910.8
3538.7
3260.8
3097.9
3033.6
2996.3
2958.9
2837.9
2561.4
2225.2
1912.8
1664.8
1495.9
1491.4
1478.0
1377.8
1203.0
1102.9
1061.0
1026.7
951.9
901.1
842.8
778.6
703.9
671.0
523.0
352.7
251.1
186.8
92.7
0.0

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