

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: P949689

Luminaire Tested: **GALN-SB4B-840-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949689
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB4B-840-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21097 lumens
Efficiency: N/A
Efficacy: 143.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

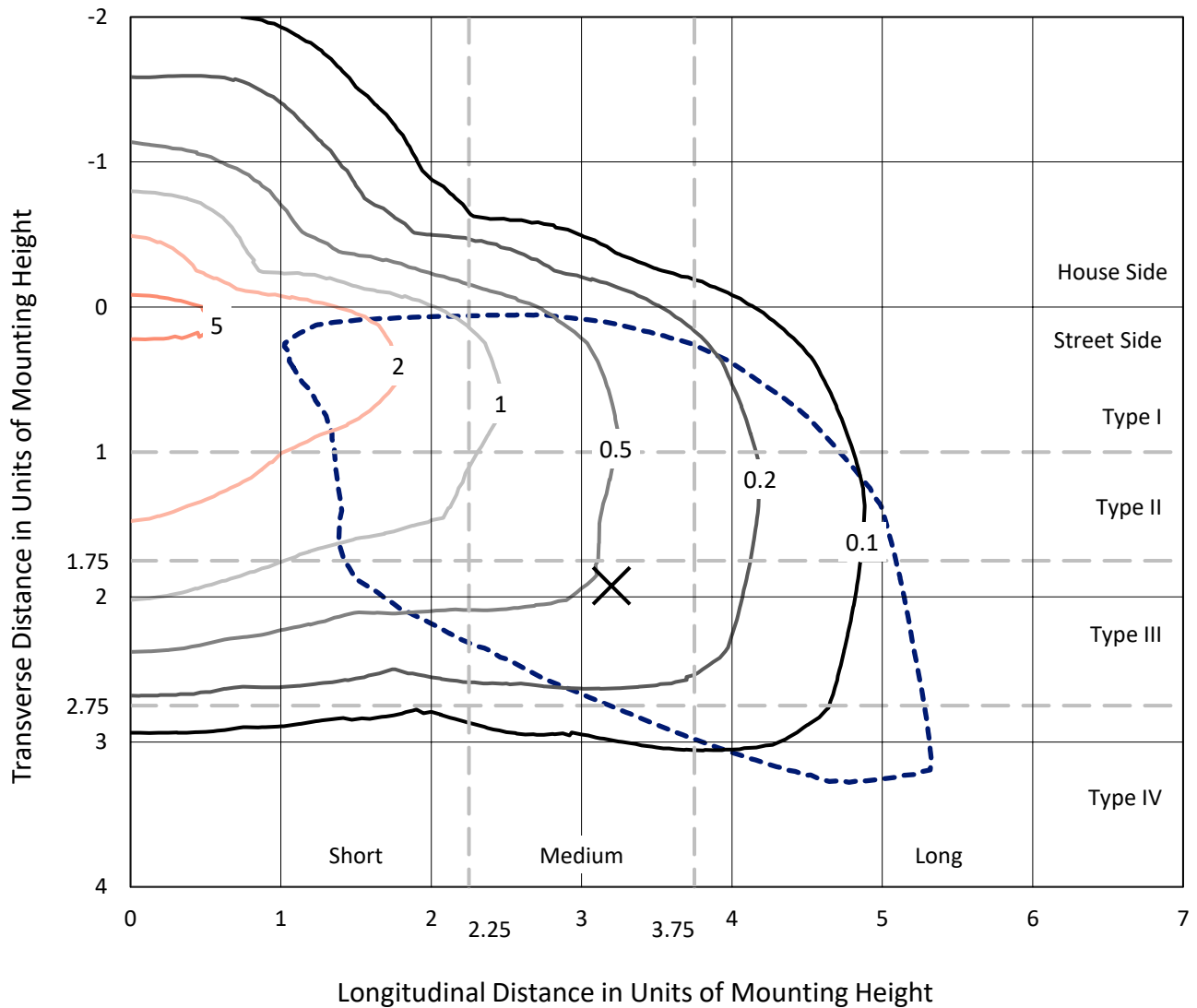
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

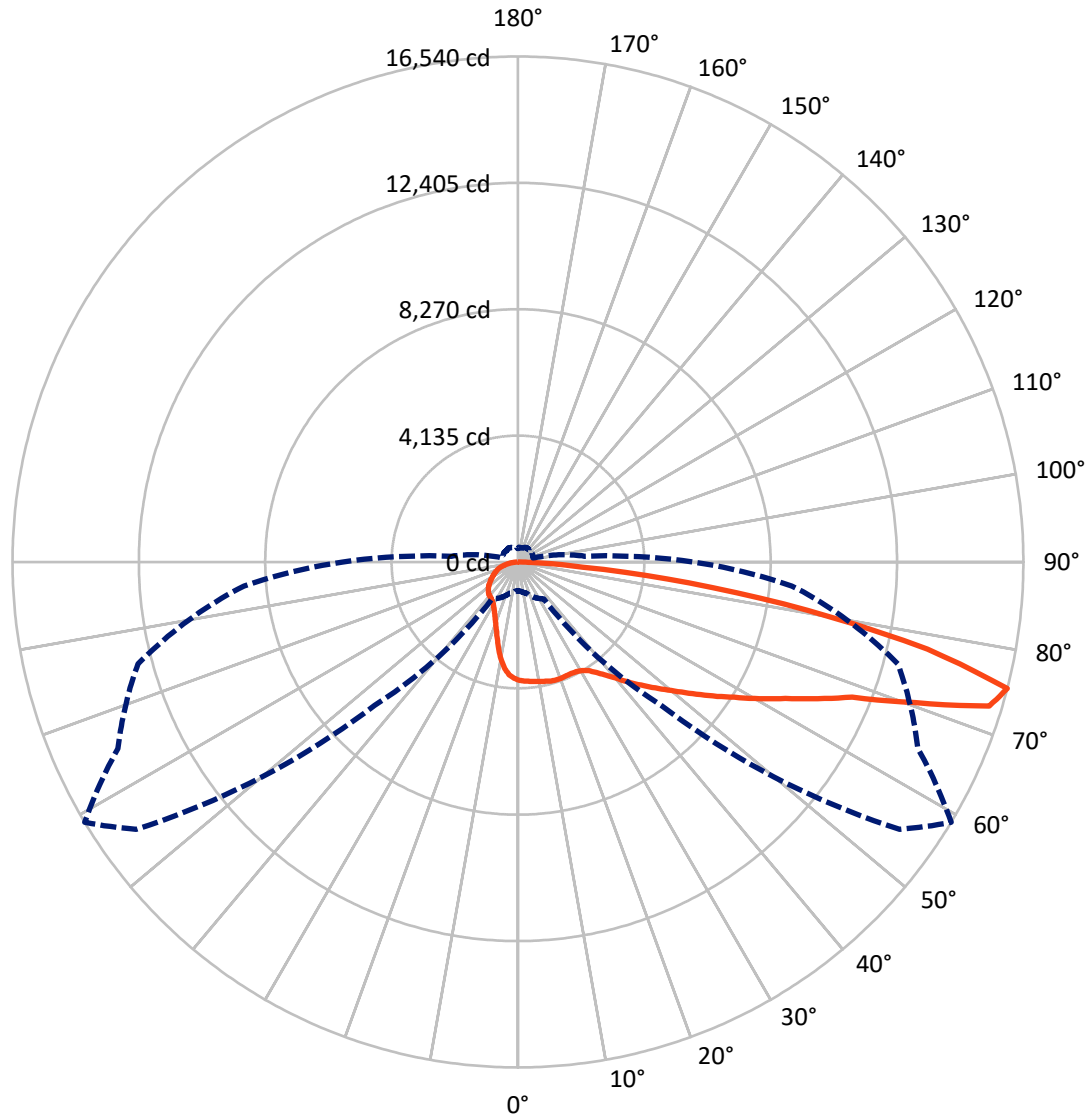
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3956.9	0.0	3956.9
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	17140.1	0.0	17140.1
	% Fixture	81.2	0.0	81.2
Total	Lumens	21097.0	0.0	21097.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	347.2	1.6
10°-20°	887.5	4.2
20°-30°	1348.0	6.4
30°-40°	2003.8	9.5
40°-50°	2980.1	14.1
50°-60°	4045.1	19.2
60°-70°	4938.4	23.4
70°-80°	3875.6	18.4
80°-90°	671.3	3.2
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°	21097.0	100.0
0°-180°	21097.0	100.0



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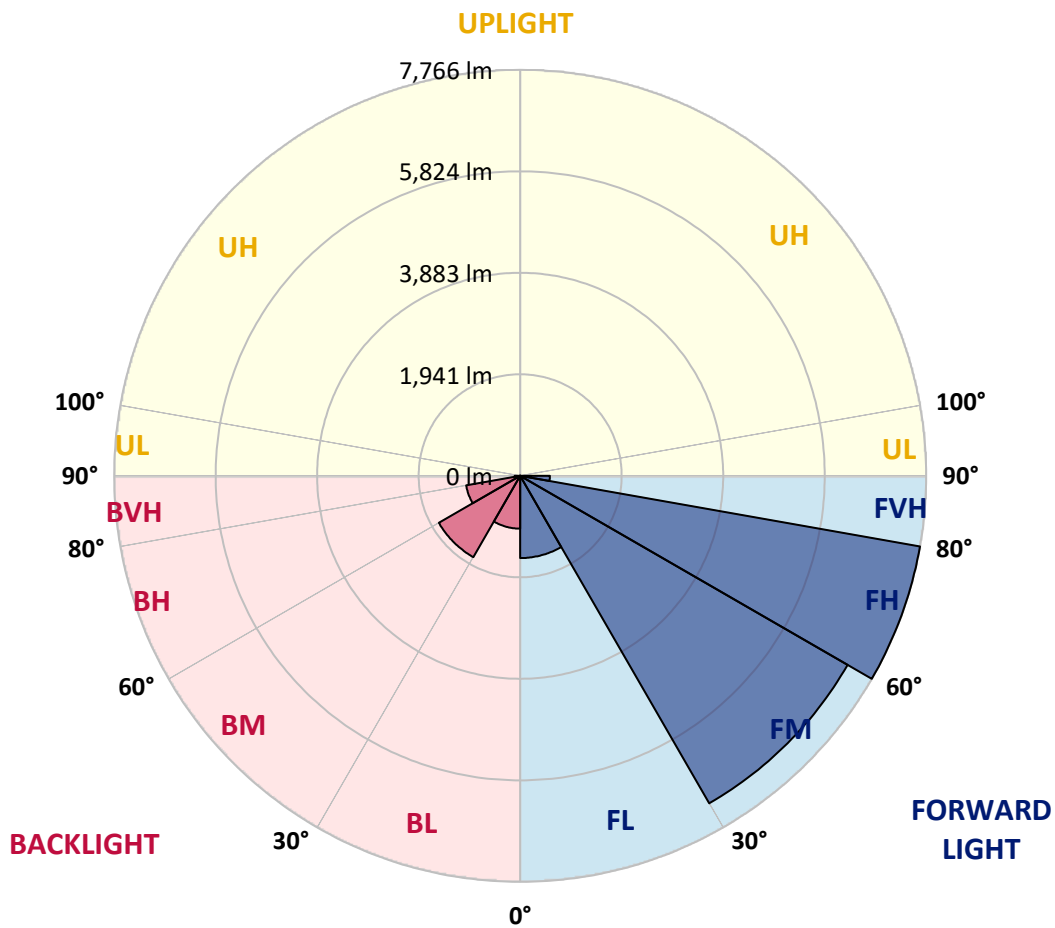
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1573.0	7.5			
FM (30°-60°)	7232.9	34.3			
FH (60°-80°)	7765.6	36.8			G4/12000
FVH (80°-90°)	568.6	2.7			G4/750
BL (0°-30°)	1009.8	4.8	B3/2500		
BM (30°-60°)	1796.0	8.5	B2/2500		
BH (60°-80°)	1048.3	5.0	B3/2500		G3/2500
BVH (80°-90°)	102.8	0.5			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 IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	3872.3	3872.3	3872.3	3872.3	3872.3	3872.3	3872.3	3872.3	3872.3	3872.3
2.5°	3905.2	3891.6	3905.2	3899.5	3897.3	3892.7	3893.9	3901.8	3897.3	3902.9
5°	3879.1	3871.2	3884.8	3881.4	3896.1	3898.4	3913.2	3922.2	3927.9	3929.1
7.5°	3836.0	3828.0	3847.3	3863.2	3895.0	3904.1	3934.7	3949.5	3957.4	3971.0
10°	3678.2	3674.8	3722.5	3782.6	3857.6	3904.1	3950.6	3975.6	3988.1	4024.4
12.5°	3399.1	3403.6	3466.0	3581.8	3731.6	3881.4	3968.8	4005.1	4024.4	4069.8
15°	3132.3	3131.2	3199.3	3323.0	3533.0	3781.5	3977.9	4040.3	4073.2	4140.1
17.5°	2978.0	2973.5	3021.1	3115.3	3310.5	3628.3	3955.2	4059.6	4129.9	4213.9
20°	2949.6	2940.5	2965.5	3012.0	3150.5	3460.3	3896.1	4059.6	4175.3	4284.3
22.5°	3052.9	3038.1	3027.9	3022.3	3083.5	3321.9	3829.2	4045.9	4242.3	4385.3
25°	3260.6	3237.9	3185.7	3134.6	3116.5	3259.5	3770.2	4042.5	4342.2	4521.5
27.5°	3596.5	3568.2	3462.6	3340.0	3229.9	3291.2	3744.1	4063.0	4452.2	4665.6
30°	4013.0	3982.4	3849.6	3661.2	3463.7	3409.3	3777.0	4123.1	4593.0	4857.4
32.5°	4386.4	4352.4	4238.9	4047.1	3780.4	3613.5	3881.4	4237.7	4814.3	5124.1
35°	4717.8	4678.1	4576.0	4398.9	4168.5	3900.7	4069.8	4440.9	5128.7	5557.6
37.5°	5042.4	4995.9	4884.6	4697.4	4536.2	4283.1	4329.7	4701.9	5546.3	6084.2
40°	5405.6	5338.6	5203.6	5018.6	4861.9	4731.4	4671.3	5022.0	5970.8	6672.1
42.5°	5757.4	5693.8	5532.7	5374.9	5178.6	5141.1	5067.4	5396.5	6434.9	7317.9
45°	6136.4	6060.4	5865.2	5665.5	5541.8	5413.5	5451.0	5771.0	6890.0	7976.1
47.5°	6491.7	6406.6	6176.2	5953.7	5885.6	5642.8	5802.8	6183.0	7363.3	8643.5
50°	6683.5	6599.5	6407.7	6206.8	6153.5	5925.4	6184.1	6635.8	7859.2	9308.5
52.5°	6843.5	6752.7	6501.9	6390.7	6374.8	6232.9	6654.0	7153.3	8355.2	9896.4
55°	7013.7	6912.7	6592.7	6492.8	6565.4	6577.9	7211.2	7740.1	8879.5	10469.5
57.5°	7210.1	7081.8	6680.1	6579.1	6751.6	6982.0	7851.3	8348.4	9394.8	11000.7
60°	7395.1	7265.7	6848.0	6716.4	6952.4	7450.7	8585.6	9084.9	9978.1	11473.9
62.5°	7431.4	7324.7	6982.0	6980.8	7224.8	7997.7	9454.9	9828.3	10487.7	11941.5
65°	6802.6	6735.7	6532.5	6970.6	7615.2	8785.3	10423.0	10779.4	11135.7	12350.1
67.5°	5177.5	5186.5	5171.8	6017.3	7299.7	9916.8	11824.6	11797.4	11935.8	12808.6
70°	2367.4	2420.8	2768.0	4153.8	5848.2	10047.3	14142.1	13789.1	12940.2	13402.1
72.5°	1279.0	1319.9	1461.8	2012.2	3515.9	8932.9	15874.0	16124.8	14276.0	13801.6
75°	938.6	961.3	1060.0	1279.0	1476.5	6639.2	15253.2	16540.2	14442.8	12869.9
77.5°	702.5	712.7	793.3	1013.5	755.8	3500.1	12187.8	13698.3	12363.7	10573.9
80°	509.6	520.9	581.1	760.4	530.0	1280.2	8368.8	9614.9	8467.6	6740.2
82.5°	351.8	356.4	382.5	517.5	370.0	497.1	4748.5	5638.2	4726.9	2365.1
85°	212.2	217.9	229.3	301.9	210.0	236.1	2049.6	2120.0	1413.0	565.2
87.5°	87.4	93.1	102.1	127.1	82.8	65.8	338.2	424.5	264.4	165.7
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°
3872.3	0°	3872.3	3872.3	3872.3	3872.3	3872.3	3872.3	3872.3	3872.3	3872.3	3872.3
3883.7	2.5°	3878.0	3870.0	3848.5	3819.0	3791.7	3757.7	3742.9	3730.4	3719.1	3697.5
3914.3	5°	3901.8	3880.3	3822.4	3747.5	3662.3	3569.3	3478.5	3416.1	3362.7	3323.0
3949.5	7.5°	3938.1	3897.3	3791.7	3638.5	3443.3	3243.6	3063.1	2934.9	2838.4	2803.2
3999.4	10°	3975.6	3926.8	3742.9	3472.8	3135.8	2828.2	2588.7	2457.1	2379.9	2354.9
4058.4	12.5°	4019.8	3948.3	3666.9	3242.4	2791.9	2454.8	2246.0	2168.8	2129.1	2115.5
4131.1	15°	4084.5	3966.5	3552.3	2954.2	2463.9	2182.4	2047.4	1994.0	1973.6	1972.5
4206.0	17.5°	4133.3	3969.9	3374.1	2645.5	2211.9	2017.9	1906.6	1886.2	1899.8	1920.3
4279.7	20°	4187.8	3939.3	3140.3	2364.0	2034.9	1873.7	1827.2	1840.8	1873.7	1903.2
4377.3	22.5°	4226.4	3883.7	2857.7	2145.0	1881.7	1790.9	1788.6	1817.0	1835.1	1849.9
4492.0	25°	4260.4	3789.5	2558.1	1961.1	1755.7	1740.9	1765.9	1756.8	1744.4	1756.8
4606.6	27.5°	4285.4	3640.8	2290.2	1800.0	1667.2	1706.9	1692.1	1671.7	1670.6	1677.4
4741.6	30°	4277.5	3442.2	2070.1	1646.8	1604.8	1643.3	1608.2	1604.8	1601.4	1604.8
4944.8	32.5°	4277.5	3216.3	1901.0	1541.2	1565.0	1550.3	1546.9	1538.9	1525.3	1524.2
5220.6	35°	4301.3	2990.5	1755.7	1484.5	1532.1	1496.9	1499.2	1479.9	1451.5	1437.9
5586.0	37.5°	4350.1	2808.9	1611.6	1457.2	1474.2	1473.1	1464.0	1431.1	1381.2	1338.1
6042.3	40°	4468.1	2755.6	1512.8	1444.7	1447.0	1460.6	1436.8	1373.2	1259.7	1189.4
6505.3	42.5°	4653.1	2845.2	1491.3	1414.1	1428.8	1442.5	1395.9	1248.4	1167.8	1125.8
6991.0	45°	4888.1	3001.8	1537.8	1369.8	1385.7	1409.6	1271.1	1200.7	1164.4	1165.6
7472.2	47.5°	5185.4	3166.4	1624.1	1331.2	1323.3	1336.9	1188.2	1145.1	1095.2	1107.7
7934.1	50°	5529.3	3333.2	1705.8	1279.0	1254.1	1209.8	1134.9	1094.1	1030.5	1001.0
8380.2	52.5°	5901.5	3494.4	1738.7	1215.5	1179.2	1128.1	1098.6	1048.7	971.5	922.7
8801.2	55°	6254.5	3640.8	1702.4	1139.4	1104.3	1064.5	1060.0	1029.4	946.5	878.4
9175.7	57.5°	6588.1	3763.4	1611.6	1062.3	1028.2	1004.4	1035.0	1020.3	915.9	828.5
9529.8	60°	6870.7	3847.3	1479.9	984.0	960.1	947.6	994.2	989.6	872.7	775.1
9847.6	62.5°	7095.4	3880.3	1334.7	909.1	903.4	880.7	937.4	937.4	818.3	722.9
10126.8	65°	7271.4	3848.5	1187.1	835.3	846.6	812.6	868.2	861.4	760.4	676.4
10448.0	67.5°	7426.8	3744.1	1023.7	762.7	788.8	745.6	795.6	779.7	696.8	629.9
10726.0	70°	7496.1	3501.2	837.6	690.0	721.8	679.8	722.9	693.4	625.3	579.9
10420.7	72.5°	6940.0	2909.9	659.4	614.0	641.2	607.2	644.6	610.6	548.2	527.7
8998.7	75°	5741.5	2183.6	507.3	531.1	551.6	525.5	550.4	525.5	468.7	483.5
6647.2	77.5°	4169.7	1474.2	388.1	443.7	452.8	439.2	460.8	432.4	381.3	377.9
3312.8	80°	2073.5	863.7	304.2	350.7	347.3	338.2	363.2	349.6	306.4	324.6
894.3	82.5°	600.4	370.0	221.3	246.3	239.5	241.7	259.9	266.7	399.5	396.1
278.1	85°	188.4	145.3	132.8	137.3	130.5	133.9	153.2	304.2	281.5	164.6
86.3	87.5°	48.8	49.9	32.9	35.2	36.3	43.1	48.8	185.0	88.5	57.9
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>
3872.3
3687.3
3290.1
2741.9
2316.3
2118.9
1977.0
1928.2
1913.5
1857.8
1764.8
1688.7
1617.2
1538.9
1451.5
1352.8
1198.5
1125.8
1171.2
1139.4
1008.9
921.5
878.4
823.9
771.7
719.5
671.9
625.3
570.9
510.7
441.5
360.9
321.2
405.2
178.2
61.3
0.0

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