

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: P951409

Luminaire Tested: **GALN-SB5C-827-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951409
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5C-827-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32697 lumens
Efficiency: N/A
Efficacy: 131.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

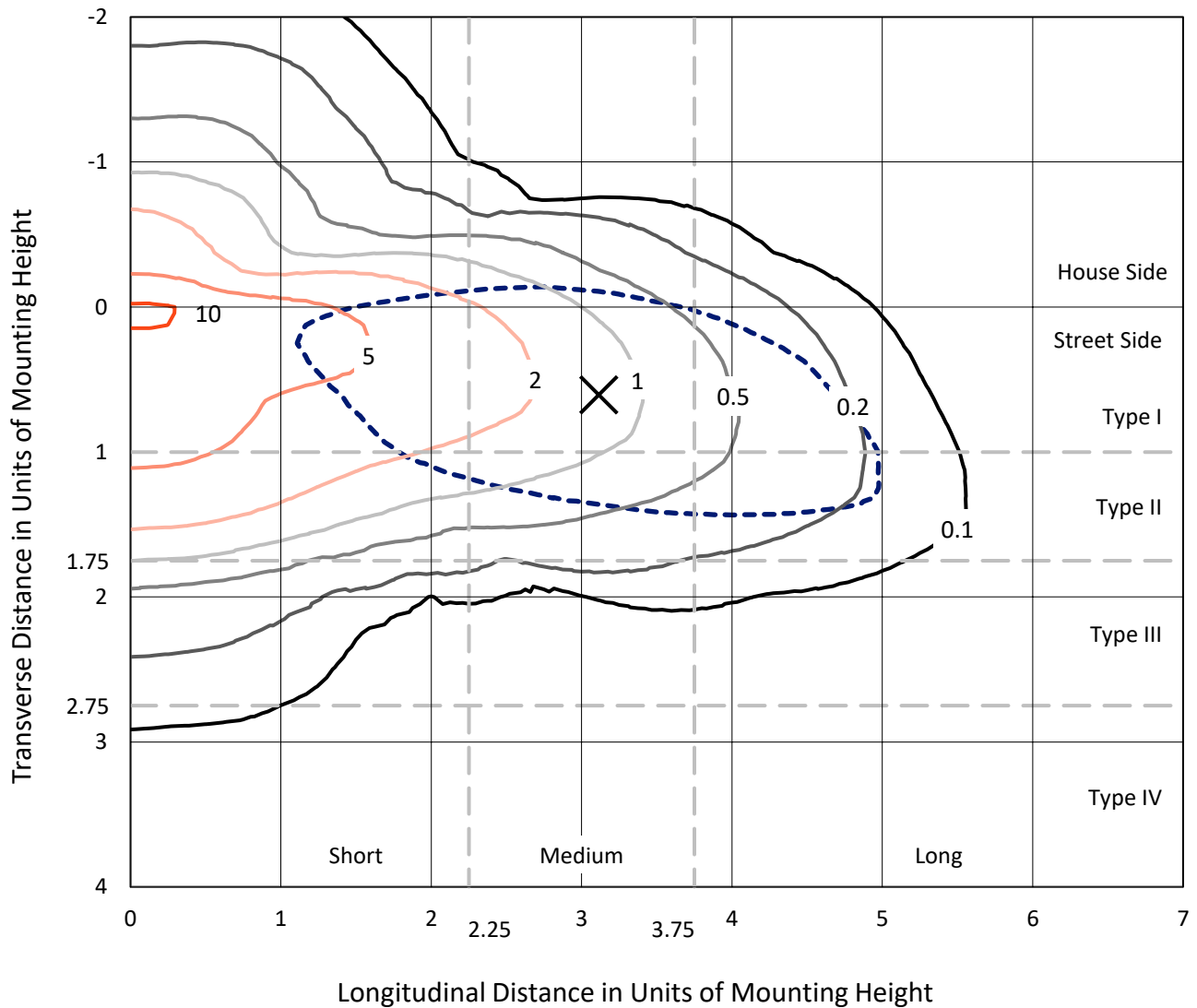
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

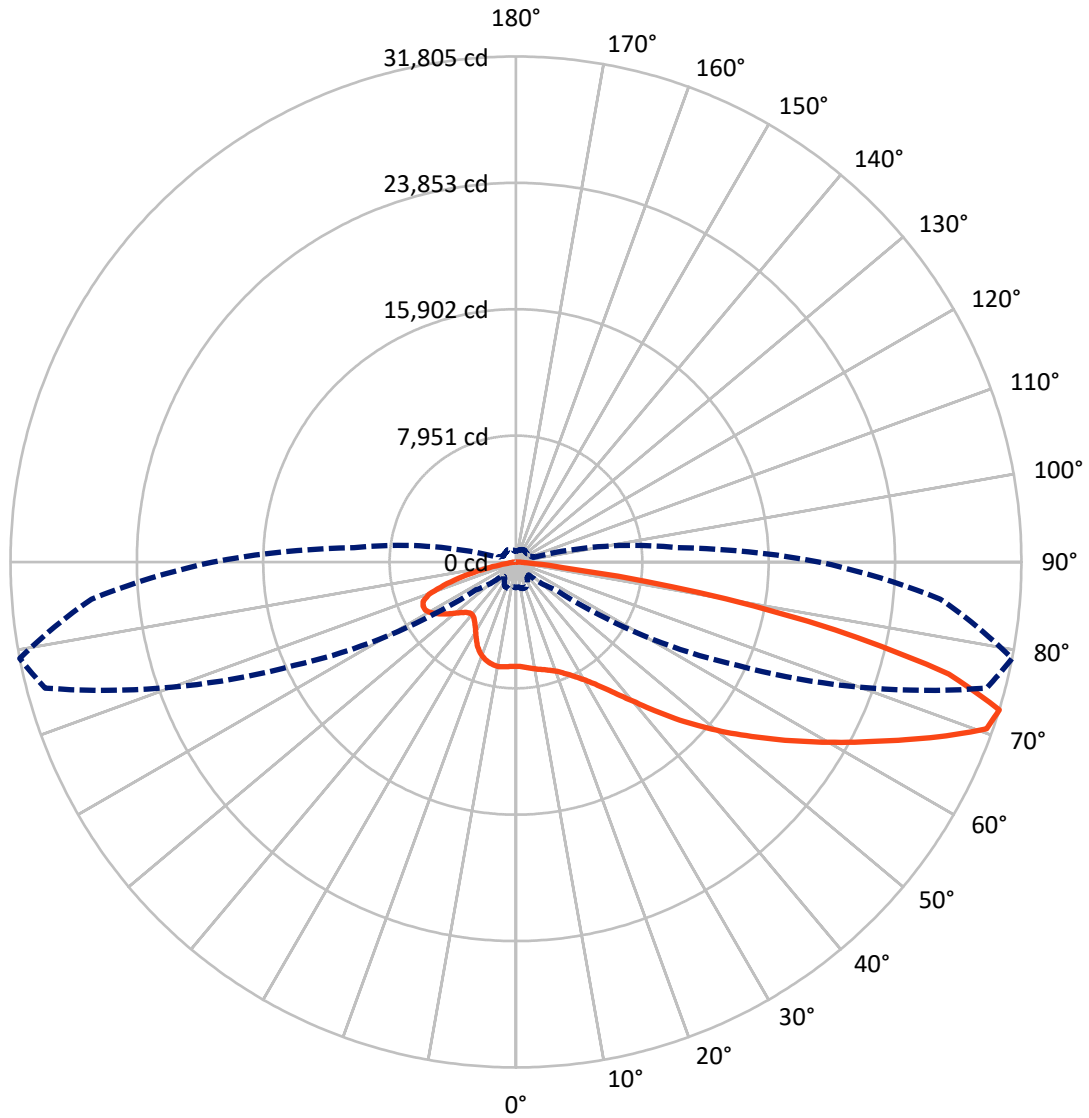
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7195.1	0.0	7195.1
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	25501.9	0.0	25501.9
	% Fixture	78.0	0.0	78.0
Total	Lumens	32697.0	0.0	32697.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	595.8	1.8
10°-20°	1557.7	4.8
20°-30°	2513.5	7.7
30°-40°	3772.4	11.5
40°-50°	5351.3	16.4
50°-60°	6758.0	20.7
60°-70°	6863.6	21.0
70°-80°	4677.9	14.3
80°-90°	606.9	1.9
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°	32697.0	100.0
0°-180°	32697.0	100.0



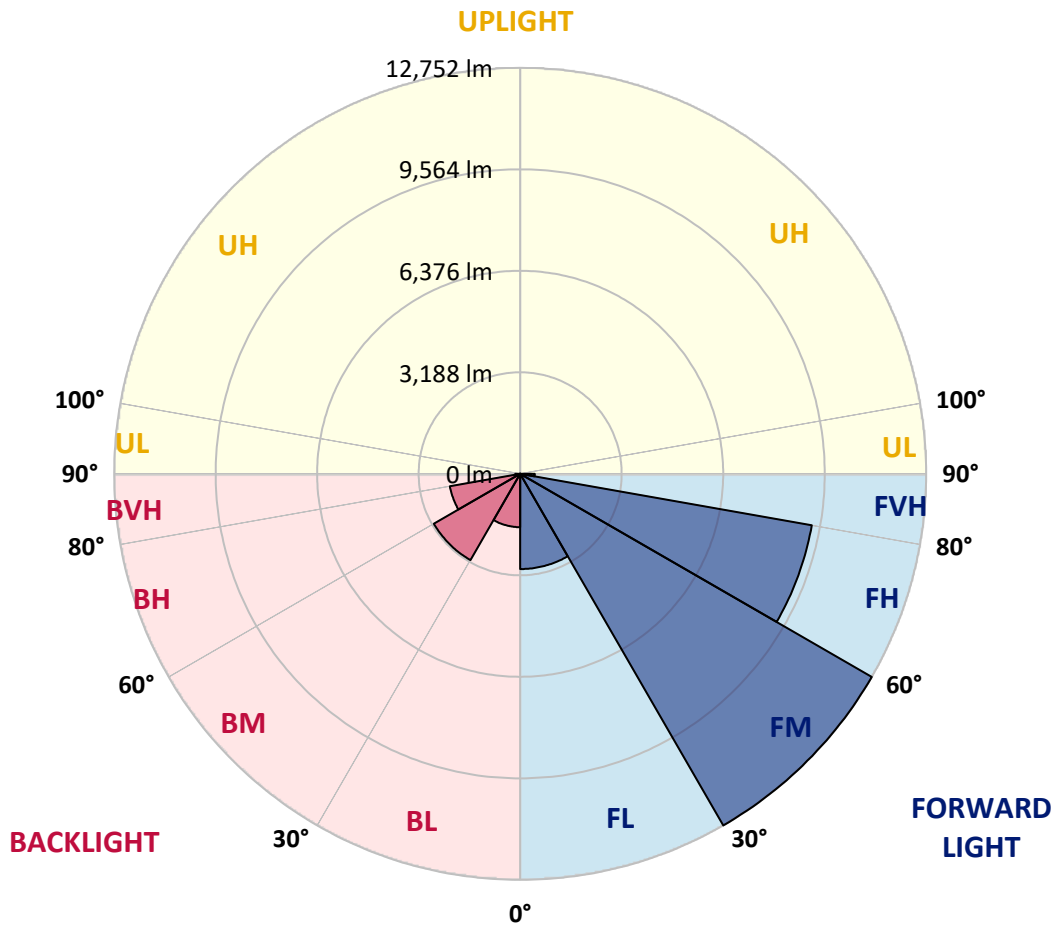
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2991.0	9.1			
FM (30°-60°)	12752.5	39.0			
FH (60°-80°)	9301.2	28.4			G4/12000
FVH (80°-90°)	457.2	1.4			G3/500
BL (0°-30°)	1676.0	5.1	B3/2500		
BM (30°-60°)	3129.1	9.6	B3/5000		
BH (60°-80°)	2240.3	6.9	B3/2500		G3/2500
BVH (80°-90°)	149.7	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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	6563.6	6563.6	6563.6	6563.6	6563.6	6563.6	6563.6	6563.6	6563.6	6563.6
2.5°	6567.1	6535.9	6555.0	6548.0	6556.7	6567.1	6570.5	6575.7	6593.0	6591.3
5°	6553.2	6522.1	6548.0	6539.4	6561.9	6586.1	6606.9	6625.9	6653.5	6665.7
7.5°	6523.8	6503.1	6529.0	6555.0	6596.5	6632.8	6662.2	6705.4	6745.2	6752.1
10°	6352.6	6337.0	6397.6	6465.0	6579.2	6677.8	6741.8	6791.9	6835.1	6842.1
12.5°	6174.5	6155.4	6222.9	6314.6	6499.6	6677.8	6812.7	6878.4	6916.4	6938.9
15°	6145.1	6129.5	6167.5	6247.1	6401.0	6631.1	6861.1	6982.2	7015.0	7041.0
17.5°	6286.9	6257.5	6273.0	6300.7	6390.7	6587.8	6899.1	7099.8	7149.9	7177.6
20°	6615.5	6574.0	6549.8	6494.4	6478.9	6594.7	6895.7	7241.6	7307.3	7341.9
22.5°	7053.1	7025.4	6973.5	6833.4	6681.2	6679.5	6961.4	7423.2	7546.0	7578.9
25°	7582.3	7540.8	7475.1	7284.8	6992.5	6847.3	7072.1	7655.0	7860.8	7869.4
27.5°	8191.1	8128.8	8038.9	7788.1	7393.8	7110.1	7241.6	7921.3	8222.2	8218.8
30°	8832.8	8770.5	8675.4	8371.0	7874.6	7464.7	7476.8	8208.4	8651.2	8632.1
32.5°	9301.5	9254.8	9235.8	9000.5	8428.1	7883.3	7746.6	8526.6	9180.4	9163.1
35°	9661.2	9600.7	9623.2	9503.8	9031.7	8352.0	8077.0	8905.4	9823.8	9822.1
37.5°	10017.5	9963.9	9982.9	9903.4	9590.3	8946.9	8479.9	9368.9	10621.1	10659.2
40°	10342.7	10285.6	10361.7	10287.3	10024.4	9579.9	8938.3	9893.0	11544.7	11617.3
42.5°	10538.1	10493.1	10619.4	10621.1	10401.5	10114.4	9441.6	10470.6	12613.5	12776.1
45°	10605.6	10590.0	10780.2	10820.0	10735.3	10423.9	9894.7	11100.2	13765.4	14056.0
47.5°	10532.9	10503.5	10766.4	10913.4	10980.9	10569.2	10270.0	11781.6	14941.5	15367.0
50°	10166.2	10109.2	10500.0	10809.6	11050.0	10664.4	10648.8	12568.6	16278.4	16743.7
52.5°	9507.3	9464.1	9908.5	10446.4	10897.8	10711.1	11074.3	13428.2	17547.9	18149.8
55°	8665.0	8607.9	9097.4	9799.6	10519.1	10695.5	11499.7	14389.8	19045.7	19656.2
57.5°	7329.8	7215.6	7834.8	8665.0	9901.6	10676.5	11942.5	15346.2	20567.7	21299.3
60°	5382.3	5212.8	5972.1	6956.2	8694.4	10491.4	12490.8	16418.5	22394.1	23053.1
62.5°	3133.9	3035.3	3531.7	4450.1	6553.2	9401.8	12798.6	17665.5	24189.4	24881.2
65°	2433.5	2405.8	2449.0	2519.9	3647.6	7039.2	11849.1	18881.4	26472.4	26956.6
67.5°	2225.9	2205.2	2224.2	2091.0	1850.6	3920.9	9374.1	19189.3	28917.9	29212.0
70°	1978.6	1954.4	2016.6	1902.5	1456.3	1783.2	6056.9	18072.0	30863.7	31415.4
72.5°	1611.9	1584.3	1729.5	1677.7	1226.2	1145.0	3042.3	15417.1	30659.6	31804.5
75°	1238.4	1222.8	1395.7	1439.0	999.7	901.1	1459.7	11459.9	26980.9	28134.5
77.5°	961.6	949.5	1037.7	1195.1	806.0	698.7	897.6	7269.3	20332.5	20534.9
80°	721.2	686.6	767.9	925.3	627.8	510.2	608.8	4239.1	12852.2	11650.2
82.5°	451.4	434.1	501.6	617.4	442.8	351.1	396.1	2341.8	5150.6	3033.6
85°	257.7	250.8	273.3	352.8	240.4	202.4	226.6	1034.3	940.9	646.8
87.5°	103.8	100.3	124.5	157.4	88.2	74.4	79.6	249.1	207.5	192.0
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°
6563.6	0°	6563.6	6563.6	6563.6	6563.6	6563.6	6563.6	6563.6	6563.6	6563.6	6563.6
6589.6	2.5°	6582.6	6582.6	6558.4	6520.4	6477.1	6449.5	6404.5	6392.4	6345.7	6331.9
6648.4	5°	6662.2	6648.4	6574.0	6466.8	6319.7	6184.8	6036.1	5942.7	5811.3	5764.6
6764.2	7.5°	6762.5	6724.5	6596.5	6361.3	6053.4	5750.7	5436.0	5197.3	4969.0	4887.7
6859.4	10°	6854.2	6800.6	6582.6	6171.0	5638.3	5114.3	4612.7	4261.6	3995.2	3886.3
6964.9	12.5°	6945.8	6847.3	6491.0	5854.5	5048.5	4337.7	3803.3	3530.0	3365.7	3234.2
7051.3	15°	7032.3	6894.0	6349.1	5430.8	4401.7	3680.5	3286.1	3068.2	2936.8	2850.3
7177.6	17.5°	7132.6	6933.7	6136.4	4892.9	3786.0	3225.6	2903.9	2772.5	2746.5	2736.1
7350.6	20°	7272.7	6970.1	5856.2	4291.0	3332.8	2862.4	2696.4	2684.2	2682.5	2677.3
7558.1	22.5°	7423.2	7013.3	5486.1	3744.5	2947.1	2635.8	2606.4	2582.2	2566.6	2564.9
7808.9	25°	7601.3	7027.1	5022.6	3296.5	2618.5	2528.6	2494.0	2457.7	2447.3	2447.3
8094.3	27.5°	7774.3	6980.4	4483.0	2907.4	2433.5	2430.0	2385.0	2372.9	2371.2	2376.4
8419.4	30°	7947.2	6892.2	3946.8	2547.6	2326.2	2326.2	2310.7	2319.3	2326.2	2343.5
8865.6	32.5°	8180.7	6798.8	3498.9	2281.3	2232.8	2215.5	2231.1	2248.4	2255.3	2277.8
9451.9	35°	8523.2	6733.1	3142.6	2136.0	2136.0	2113.5	2122.1	2118.7	2103.1	2092.7
10161.1	37.5°	8976.3	6729.6	2848.6	2068.5	2054.7	2051.2	2053.0	2030.5	1969.9	1897.3
11018.9	40°	9521.1	6823.0	2622.0	2021.8	2011.5	2032.2	2021.8	1961.3	1795.3	1669.0
12073.9	42.5°	10252.7	7089.4	2476.7	1964.8	1995.9	2021.8	1980.3	1771.1	1658.6	1573.9
13276.0	45°	11114.0	7521.8	2402.3	1904.2	1966.5	1997.6	1797.0	1705.3	1615.4	1513.3
14587.0	47.5°	12089.5	8066.6	2385.0	1847.2	1900.8	1919.8	1719.2	1677.7	1575.6	1464.9
15904.9	50°	13151.4	8711.7	2431.7	1779.7	1805.6	1739.9	1693.2	1655.2	1549.7	1440.7
17255.6	52.5°	14249.7	9422.5	2525.1	1688.0	1710.5	1637.9	1682.8	1650.0	1534.1	1387.1
18651.4	55°	15328.9	10138.6	2615.1	1580.8	1613.7	1546.2	1653.4	1629.2	1463.2	1297.2
20140.5	57.5°	16425.5	10851.1	2703.3	1485.7	1520.3	1458.0	1606.7	1573.9	1383.6	1214.1
21766.3	60°	17565.2	11543.0	2744.8	1394.0	1418.2	1376.7	1535.8	1478.8	1293.7	1129.4
23364.4	62.5°	18632.4	12118.9	2677.3	1302.3	1317.9	1300.6	1442.4	1366.3	1203.8	1034.3
25029.9	65°	19702.9	12461.4	2469.8	1212.4	1215.9	1207.2	1311.0	1245.3	1098.3	951.2
26487.9	67.5°	20673.2	12653.3	2139.4	1115.6	1106.9	1103.4	1188.2	1113.8	996.2	868.2
27596.6	70°	20879.0	12165.6	1634.4	1001.4	1001.4	992.8	1053.3	977.2	883.8	780.0
26802.7	72.5°	19069.9	10233.7	1160.5	871.7	885.5	868.2	918.4	854.4	769.6	700.5
23099.8	75°	15377.4	7504.5	844.0	738.5	762.7	733.3	780.0	735.1	662.4	660.7
15918.7	77.5°	10565.8	4640.4	612.3	608.8	626.1	588.0	641.7	617.4	551.7	522.3
6928.5	80°	4508.9	1850.6	446.2	470.4	470.4	435.8	498.1	505.0	448.0	434.1
1336.9	82.5°	897.6	525.8	313.0	323.4	304.4	294.0	352.8	390.9	539.6	600.2
403.0	85°	269.8	193.7	188.5	176.4	155.7	157.4	207.5	392.6	484.3	276.7
133.2	87.5°	74.4	48.4	50.2	39.8	32.9	43.2	70.9	297.5	162.6	69.2
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>
6563.6
6354.3
5799.2
4898.1
3910.5
3277.5
2865.9
2743.1
2694.6
2583.9
2457.7
2390.2
2355.6
2296.8
2117.0
1899.0
1665.5
1570.4
1506.4
1456.3
1428.6
1376.7
1288.5
1210.7
1124.2
1032.5
940.9
857.9
776.6
679.7
595.0
489.5
434.1
601.9
238.7
58.8
0.0

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