

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: P948994

Luminaire Tested: **GALN-SB3D-850-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948994
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-SB3D-850-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29028 lumens
Efficiency: N/A
Efficacy: 133.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

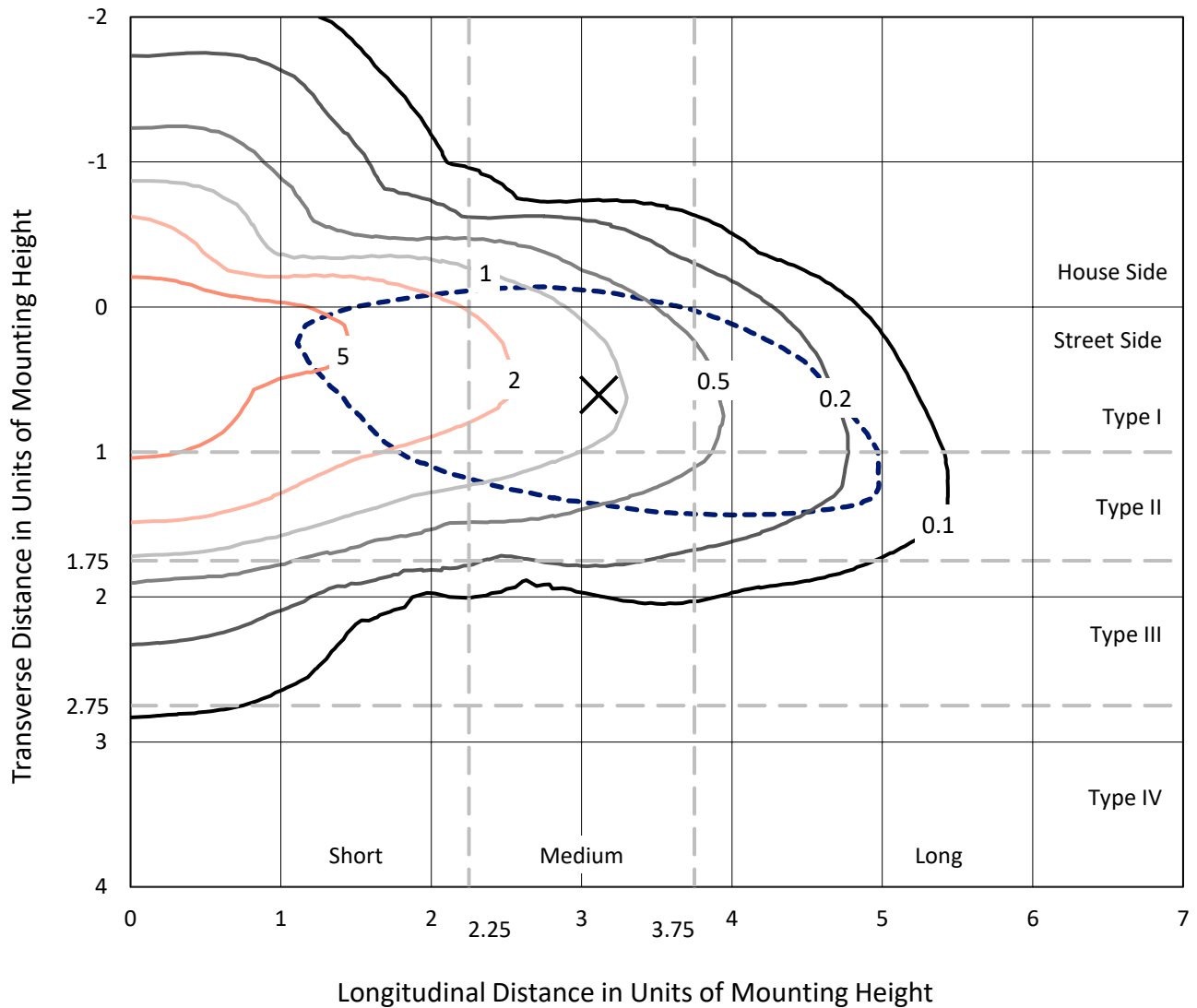
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

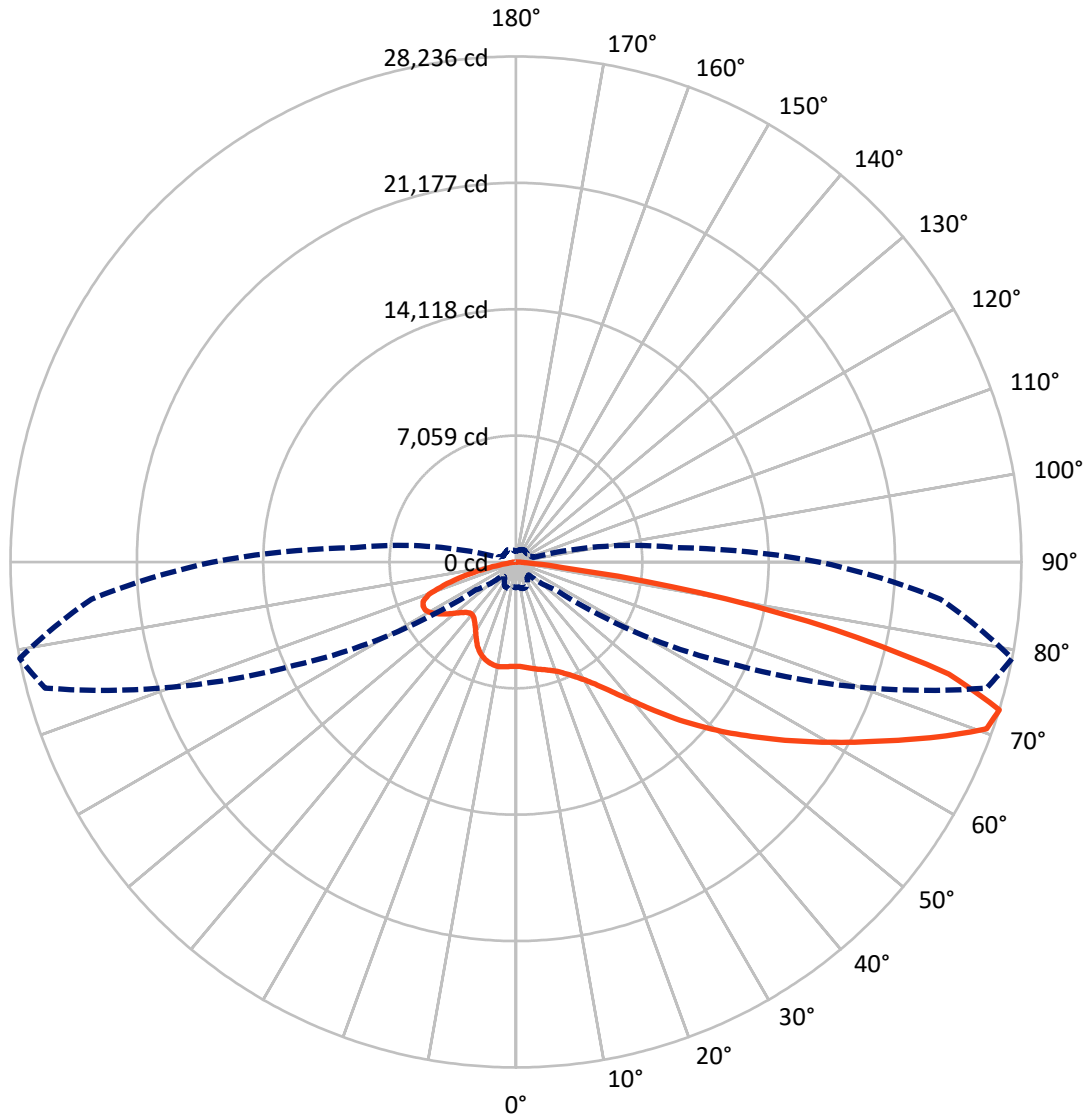
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 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	6387.7	0.0	6387.7
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	22640.2	0.0	22640.2
	% Fixture	78.0	0.0	78.0
Total	Lumens	29028.0	0.0	29028.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	528.9	1.8
10°-20°	1382.9	4.8
20°-30°	2231.4	7.7
30°-40°	3349.0	11.5
40°-50°	4750.8	16.4
50°-60°	5999.6	20.7
60°-70°	6093.5	21.0
70°-80°	4153.0	14.3
80°-90°	538.8	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°	29028.0	100.0
0°-180°	29028.0	100.0

Coefficient of Utilization



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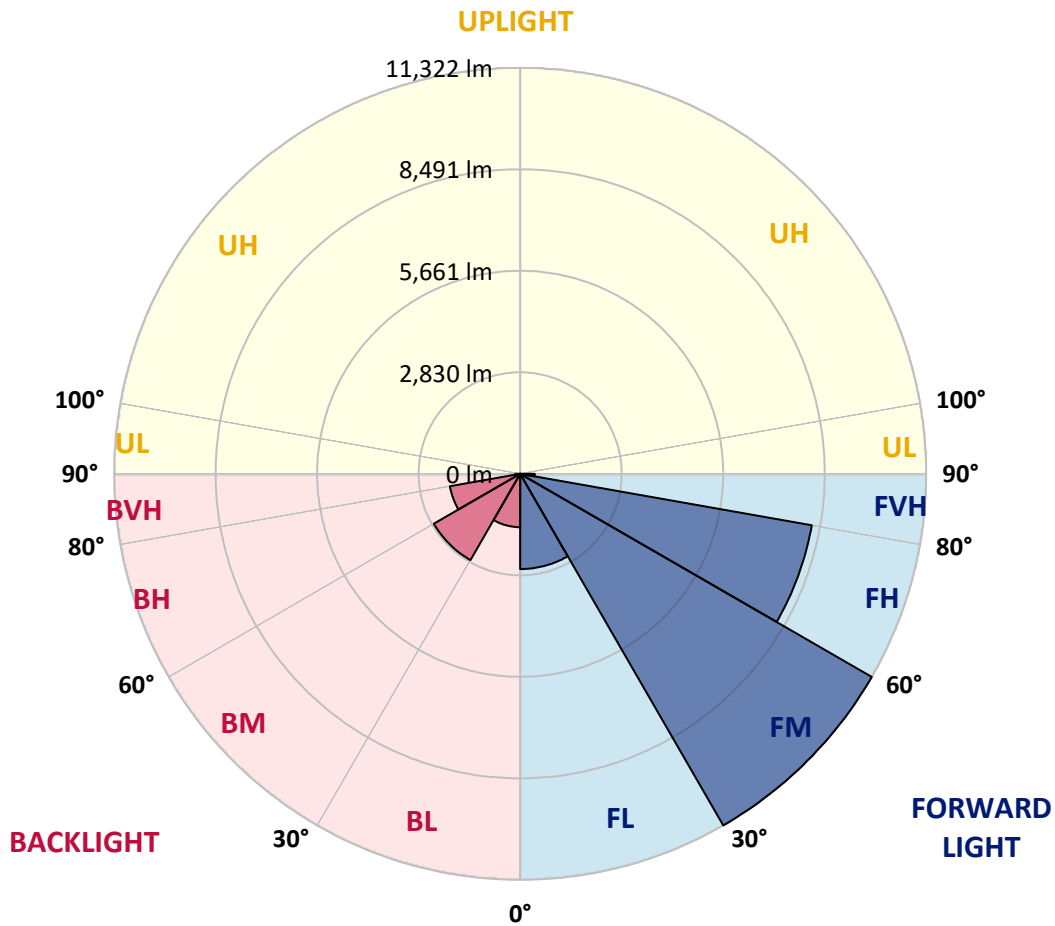
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2655.4	9.1			
FM (30°-60°)	11321.5	39.0			
FH (60°-80°)	8257.5	28.4			G4/12000
FVH (80°-90°)	405.9	1.4			G3/500
BL (0°-30°)	1487.9	5.1	B3/2500		
BM (30°-60°)	2778.0	9.6	B3/5000		
BH (60°-80°)	1988.9	6.9	B3/2500		G3/2500
BVH (80°-90°)	132.9	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°	5827.1	5827.1	5827.1	5827.1	5827.1	5827.1	5827.1	5827.1	5827.1	5827.1
2.5°	5830.2	5802.5	5819.4	5813.3	5821.0	5830.2	5833.2	5837.8	5853.2	5851.7
5°	5817.9	5790.2	5813.3	5805.6	5825.6	5847.1	5865.5	5882.4	5906.9	5917.7
7.5°	5791.8	5773.4	5796.4	5819.4	5856.3	5888.5	5914.6	5953.0	5988.3	5994.5
10°	5639.8	5625.9	5679.7	5739.6	5840.9	5928.4	5985.2	6029.8	6068.2	6074.3
12.5°	5481.6	5464.7	5524.6	5606.0	5770.3	5928.4	6048.2	6106.5	6140.3	6160.3
15°	5455.5	5441.7	5475.5	5546.1	5682.8	5887.0	6091.2	6198.7	6227.9	6250.9
17.5°	5581.4	5555.3	5569.1	5593.7	5673.5	5848.6	6125.0	6303.1	6347.6	6372.2
20°	5873.2	5836.3	5814.8	5765.7	5751.9	5854.7	6121.9	6429.0	6487.3	6518.1
22.5°	6261.6	6237.1	6191.0	6066.6	5931.5	5930.0	6180.3	6590.2	6699.2	6728.4
25°	6731.5	6694.6	6636.3	6467.4	6207.9	6078.9	6278.5	6796.0	6978.7	6986.4
27.5°	7272.0	7216.7	7136.8	6914.2	6564.1	6312.3	6429.0	7032.4	7299.6	7296.5
30°	7841.6	7786.4	7701.9	7431.7	6991.0	6627.1	6637.8	7287.3	7680.4	7663.5
32.5°	8257.7	8216.3	8199.4	7990.6	7482.3	6998.7	6877.4	7569.8	8150.3	8134.9
35°	8577.1	8523.4	8543.3	8437.4	8018.2	7414.8	7170.6	7906.1	8721.4	8719.9
37.5°	8893.4	8845.8	8862.7	8792.1	8514.2	7943.0	7528.4	8317.6	9429.3	9463.1
40°	9182.1	9131.4	9199.0	9133.0	8899.6	8504.9	7935.3	8782.9	10249.2	10313.7
42.5°	9355.6	9315.7	9427.8	9429.3	9234.3	8979.4	8382.1	9295.7	11198.2	11342.5
45°	9415.5	9401.7	9570.6	9605.9	9530.6	9254.3	8784.4	9854.6	12220.8	12478.7
47.5°	9351.0	9324.9	9558.3	9688.8	9748.7	9383.2	9117.6	10459.6	13264.9	13642.6
50°	9025.5	8974.8	9321.8	9596.7	9810.1	9467.7	9453.9	11158.2	14451.8	14864.9
52.5°	8440.5	8402.1	8796.7	9274.2	9675.0	9509.1	9831.6	11921.4	15578.8	16113.2
55°	7692.7	7642.0	8076.6	8700.0	9338.7	9495.3	10209.3	12775.1	16908.6	17450.6
57.5°	6507.3	6406.0	6955.7	7692.7	8790.5	9478.4	10602.4	13624.2	18259.8	18909.3
60°	4778.4	4627.9	5302.0	6175.6	7718.8	9314.1	11089.1	14576.2	19881.2	20466.2
62.5°	2782.3	2694.7	3135.4	3950.8	5817.9	8346.8	11362.5	15683.3	21475.0	22089.2
65°	2160.4	2135.8	2174.2	2237.2	3238.3	6249.3	10519.5	16762.7	23501.8	23931.8
67.5°	1976.1	1957.7	1974.6	1856.4	1642.9	3480.9	8322.2	17036.0	25673.0	25934.0
70°	1756.6	1735.1	1790.4	1689.0	1292.9	1583.1	5377.2	16044.1	27400.4	27890.2
72.5°	1431.1	1406.5	1535.5	1489.4	1088.6	1016.5	2700.9	13687.1	27219.2	28235.7
75°	1099.4	1085.6	1239.1	1277.5	887.5	800.0	1295.9	10174.0	23953.3	24977.4
77.5°	853.7	843.0	921.3	1061.0	715.5	620.3	796.9	6453.6	18050.9	18230.6
80°	640.3	609.6	681.7	821.5	557.4	453.0	540.5	3763.4	11410.1	10342.9
82.5°	400.8	385.4	445.3	548.2	393.1	311.7	351.6	2079.0	4572.6	2693.2
85°	228.8	222.6	242.6	313.2	213.4	179.6	201.1	918.2	835.3	574.3
87.5°	92.1	89.1	110.6	139.7	78.3	66.0	70.6	221.1	184.3	170.4
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°
5827.1	0°	5827.1	5827.1	5827.1	5827.1	5827.1	5827.1	5827.1	5827.1	5827.1	5827.1
5850.1	2.5°	5844.0	5844.0	5822.5	5788.7	5750.3	5725.8	5685.8	5675.1	5633.6	5621.3
5902.3	5°	5914.6	5902.3	5836.3	5741.1	5610.6	5490.8	5358.8	5275.9	5159.2	5117.7
6005.2	7.5°	6003.7	5969.9	5856.3	5647.4	5374.1	5105.4	4826.0	4614.1	4411.4	4339.2
6089.7	10°	6085.1	6037.5	5844.0	5478.5	5005.6	4540.4	4095.1	3783.4	3546.9	3450.2
6183.3	12.5°	6166.4	6078.9	5762.6	5197.6	4482.0	3850.9	3376.5	3133.9	2988.0	2871.3
6260.1	15°	6243.2	6120.4	5636.7	4821.4	3907.8	3267.5	2917.4	2723.9	2607.2	2530.4
6372.2	17.5°	6332.3	6155.7	5447.8	4343.8	3361.1	2863.6	2578.0	2461.4	2438.3	2429.1
6525.7	20°	6456.6	6187.9	5199.1	3809.5	2958.8	2541.2	2393.8	2383.0	2381.5	2376.9
6710.0	22.5°	6590.2	6226.3	4870.5	3324.3	2616.4	2340.1	2313.9	2292.5	2278.6	2277.1
6932.6	25°	6748.4	6238.6	4459.0	2926.6	2324.7	2244.9	2214.1	2181.9	2172.7	2172.7
7186.0	27.5°	6901.9	6197.1	3979.9	2581.1	2160.4	2157.3	2117.4	2106.7	2105.1	2109.7
7474.7	30°	7055.5	6118.8	3503.9	2261.7	2065.2	2065.2	2051.4	2059.1	2065.2	2080.6
7870.8	32.5°	7262.8	6035.9	3106.2	2025.3	1982.3	1966.9	1980.8	1996.1	2002.2	2022.2
8391.3	35°	7566.8	5977.6	2789.9	1896.3	1896.3	1876.3	1884.0	1880.9	1867.1	1857.9
9020.9	37.5°	7969.1	5974.5	2528.9	1836.4	1824.1	1821.1	1822.6	1802.6	1748.9	1684.4
9782.5	40°	8452.7	6057.4	2327.8	1795.0	1785.7	1804.2	1795.0	1741.2	1593.8	1481.7
10719.1	42.5°	9102.2	6293.9	2198.8	1744.3	1771.9	1795.0	1758.1	1572.3	1472.5	1397.3
11786.2	45°	9866.9	6677.7	2132.8	1690.5	1745.8	1773.5	1595.3	1514.0	1434.1	1343.5
12950.1	47.5°	10732.9	7161.4	2117.4	1639.9	1687.5	1704.4	1526.3	1489.4	1398.8	1300.5
14120.1	50°	11675.7	7734.1	2158.9	1580.0	1603.0	1544.7	1503.2	1469.4	1375.8	1279.0
15319.3	52.5°	12650.7	8365.2	2241.8	1498.6	1518.6	1454.1	1494.0	1464.8	1362.0	1231.4
16558.5	55°	13608.8	9000.9	2321.6	1403.4	1432.6	1372.7	1467.9	1446.4	1299.0	1151.6
17880.5	57.5°	14582.3	9633.5	2399.9	1319.0	1349.7	1294.4	1426.4	1397.3	1228.4	1077.9
19323.8	60°	15594.2	10247.7	2436.8	1237.6	1259.1	1222.2	1363.5	1312.8	1148.5	1002.7
20742.6	62.5°	16541.6	10759.0	2376.9	1156.2	1170.0	1154.7	1280.6	1213.0	1068.7	918.2
22221.3	65°	17492.0	11063.0	2192.6	1076.4	1079.4	1071.8	1163.9	1105.5	975.0	844.5
23515.7	67.5°	18353.4	11233.5	1899.4	990.4	982.7	979.6	1054.9	988.8	884.4	770.8
24499.9	70°	18536.2	10800.5	1451.0	889.0	889.0	881.4	935.1	867.5	784.6	692.5
23795.1	72.5°	16930.1	9085.4	1030.3	773.9	786.2	770.8	815.3	758.5	683.3	621.9
20507.7	75°	13651.8	6662.4	749.3	655.6	677.1	651.0	692.5	652.6	588.1	586.5
14132.4	77.5°	9380.2	4119.7	543.6	540.5	555.8	522.1	569.7	548.2	489.8	463.7
6151.1	80°	4003.0	1642.9	396.2	417.6	417.6	386.9	442.2	448.4	397.7	385.4
1186.9	82.5°	796.9	466.8	277.9	287.1	270.2	261.0	313.2	347.0	479.1	532.8
357.8	85°	239.5	172.0	167.4	156.6	138.2	139.7	184.3	348.6	429.9	245.7
118.2	87.5°	66.0	43.0	44.5	35.3	29.2	38.4	63.0	264.1	144.3	61.4
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>
5827.1
5641.3
5148.4
4348.4
3471.7
2909.7
2544.3
2435.2
2392.3
2294.0
2181.9
2122.0
2091.3
2039.1
1879.4
1685.9
1478.7
1394.2
1337.4
1292.9
1268.3
1222.2
1143.9
1074.8
998.1
916.7
835.3
761.6
689.4
603.4
528.2
434.5
385.4
534.3
211.9
52.2
0.0

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