

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: P948931

Luminaire Tested: **GALN-SB3D-830-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948931
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-830-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 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: 27268 lumens
Efficiency: N/A
Efficacy: 125.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

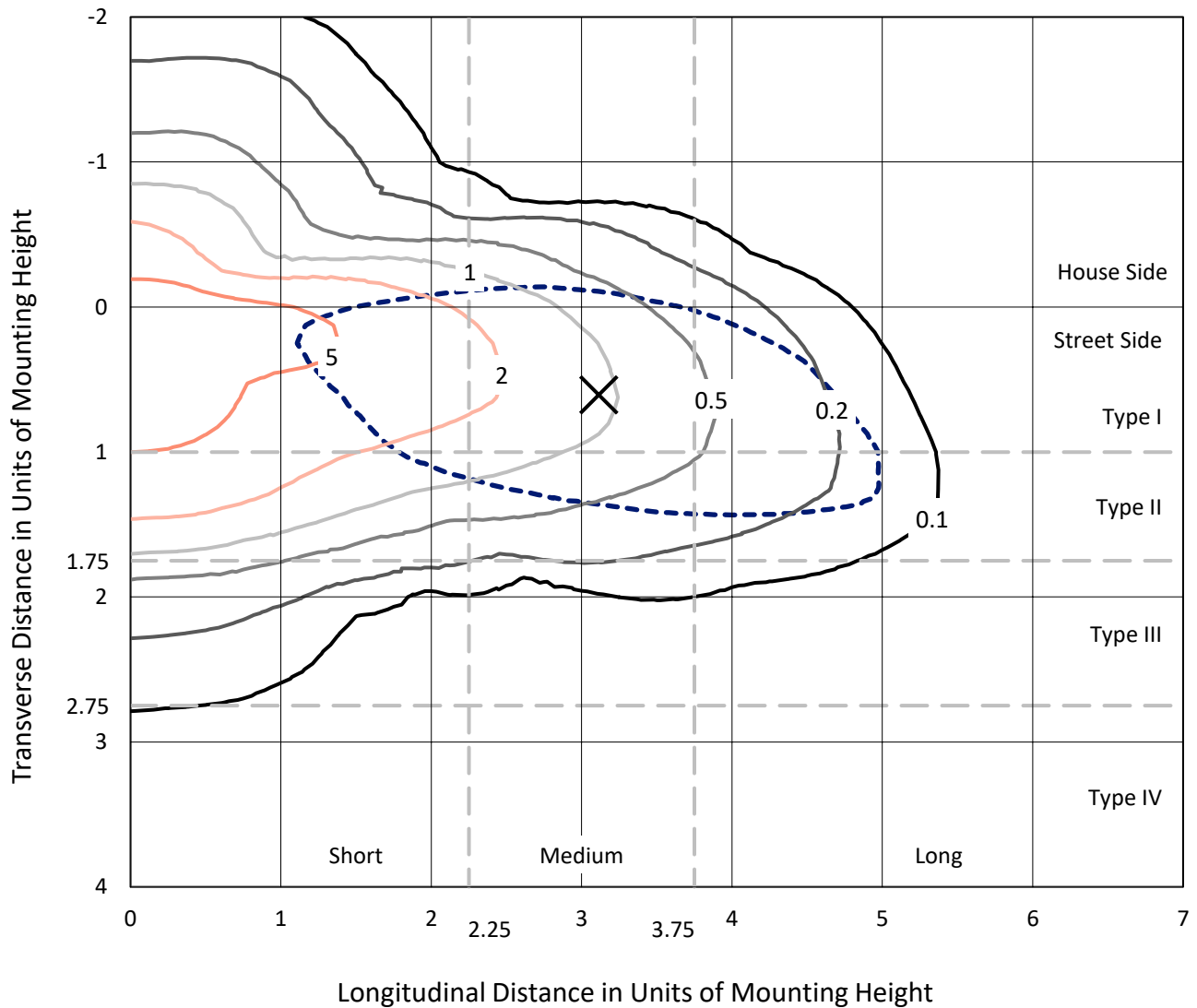
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

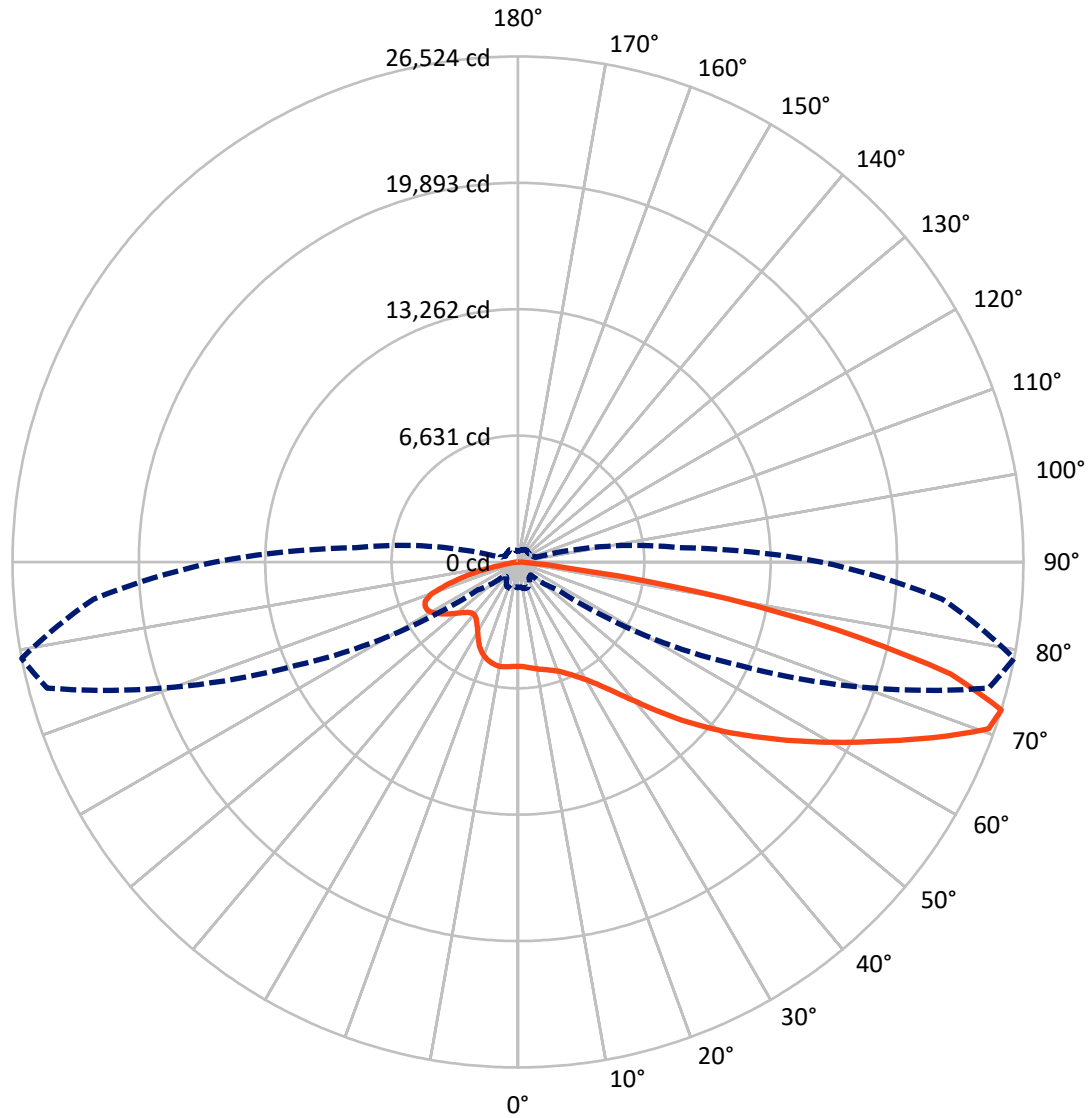
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 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	6000.5	0.0	6000.5
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	21267.5	0.0	21267.5
	% Fixture	78.0	0.0	78.0
Total	Lumens	27268.0	0.0	27268.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	496.9	1.8
10°-20°	1299.0	4.8
20°-30°	2096.1	7.7
30°-40°	3146.0	11.5
40°-50°	4462.8	16.4
50°-60°	5635.9	20.7
60°-70°	5724.0	21.0
70°-80°	3901.2	14.3
80°-90°	506.1	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°	27268.0	100.0
0°-180°	27268.0	100.0



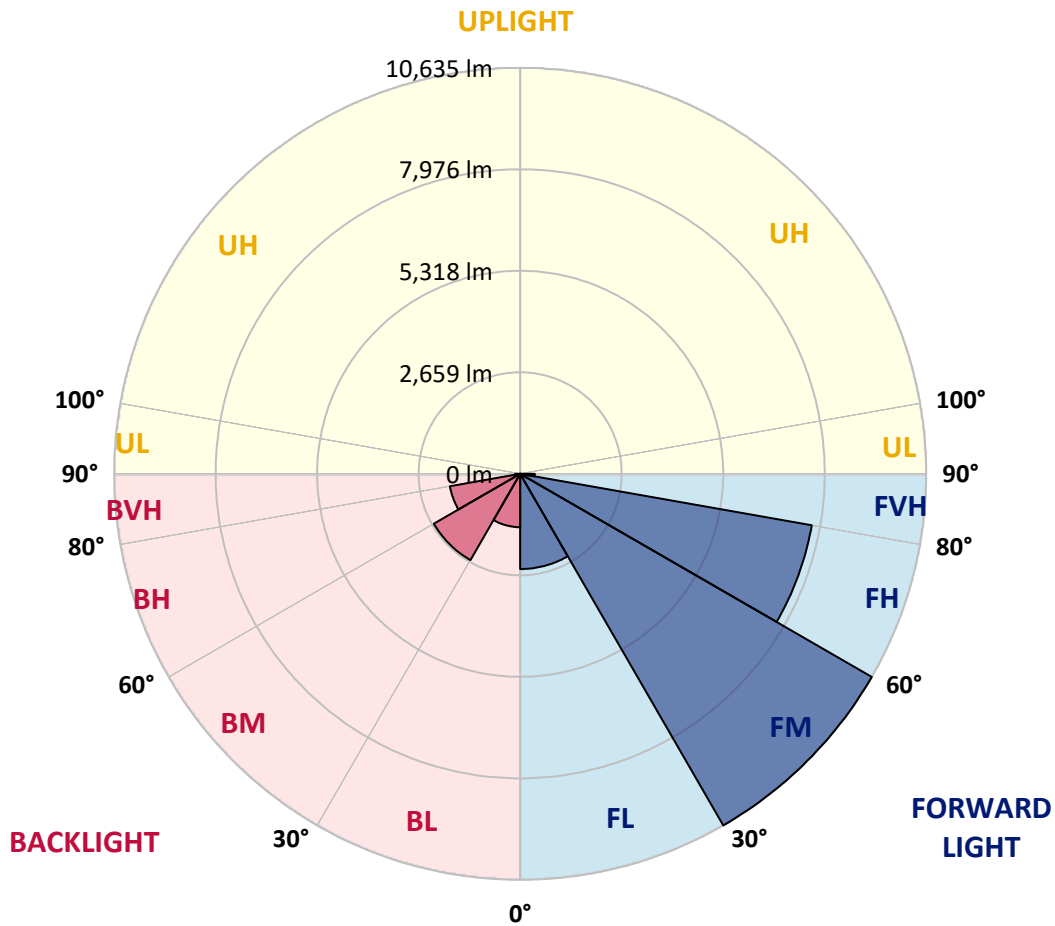
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2494.4	9.1			
FM (30°-60°)	10635.1	39.0			
FH (60°-80°)	7756.8	28.4			G4/12000
FVH (80°-90°)	381.3	1.4			G3/500
BL (0°-30°)	1397.7	5.1	B3/2500		
BM (30°-60°)	2609.6	9.6	B3/5000		
BH (60°-80°)	1868.3	6.9	B3/2500		G3/2500
BVH (80°-90°)	124.9	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°	5473.8	5473.8	5473.8	5473.8	5473.8	5473.8	5473.8	5473.8	5473.8	5473.8
2.5°	5476.7	5450.7	5466.6	5460.8	5468.0	5476.7	5479.6	5483.9	5498.3	5496.9
5°	5465.1	5439.2	5460.8	5453.6	5472.3	5492.5	5509.9	5525.7	5548.8	5558.9
7.5°	5440.6	5423.3	5444.9	5466.6	5501.2	5531.5	5556.0	5592.1	5625.2	5631.0
10°	5297.8	5284.8	5335.3	5391.6	5486.8	5569.0	5622.4	5664.2	5700.2	5706.0
12.5°	5149.3	5133.4	5189.6	5266.1	5420.4	5569.0	5681.5	5736.3	5768.0	5786.8
15°	5124.7	5111.8	5143.5	5209.8	5338.2	5530.0	5721.9	5822.8	5850.3	5871.9
17.5°	5243.0	5218.5	5231.5	5254.6	5329.6	5494.0	5753.6	5920.9	5962.8	5985.8
20°	5517.1	5482.4	5462.3	5416.1	5403.1	5499.8	5750.7	6039.2	6094.0	6122.9
22.5°	5882.0	5858.9	5815.6	5698.8	5571.9	5570.4	5805.5	6190.6	6293.1	6320.5
25°	6323.3	6288.7	6233.9	6075.3	5831.5	5710.3	5897.8	6383.9	6555.6	6562.8
27.5°	6831.1	6779.1	6704.1	6495.0	6166.1	5929.6	6039.2	6606.1	6857.0	6854.1
30°	7366.2	7314.3	7234.9	6981.1	6567.1	6225.3	6235.4	6845.5	7214.7	7198.9
32.5°	7757.1	7718.1	7702.3	7506.1	7028.7	6574.3	6460.4	7110.9	7656.1	7641.7
35°	8057.1	8006.6	8025.3	7925.8	7532.1	6965.2	6735.9	7426.8	8192.7	8191.2
37.5°	8354.2	8309.5	8325.4	8259.0	7997.9	7461.4	7071.9	7813.3	8857.6	8889.3
40°	8625.4	8577.8	8641.2	8579.2	8360.0	7989.3	7454.2	8250.4	9627.8	9688.4
42.5°	8788.4	8750.9	8856.1	8857.6	8674.4	8435.0	7873.9	8732.1	10519.2	10654.8
45°	8844.6	8831.6	8990.3	9023.5	8952.8	8693.2	8251.8	9257.1	11479.8	11722.1
47.5°	8784.0	8759.5	8978.7	9101.4	9157.6	8814.3	8564.8	9825.4	12460.6	12815.5
50°	8478.2	8430.6	8756.6	9014.8	9215.3	8893.6	8880.7	10481.7	13575.6	13963.6
52.5°	7928.7	7892.6	8263.3	8711.9	9088.4	8932.6	9235.5	11198.6	14634.3	15136.2
55°	7226.3	7178.7	7586.9	8172.5	8772.5	8919.6	9590.3	12000.5	15883.4	16392.5
57.5°	6112.8	6017.6	6533.9	7226.3	8257.6	8903.7	9959.6	12798.1	17152.7	17762.8
60°	4488.7	4347.3	4980.5	5801.2	7250.8	8749.4	10416.8	13692.4	18675.8	19225.3
62.5°	2613.6	2531.4	2945.3	3711.2	5465.1	7840.7	10673.5	14732.4	20173.0	20749.9
65°	2029.4	2006.3	2042.4	2101.5	3042.0	5870.4	9881.7	15746.3	22076.9	22480.8
67.5°	1856.3	1839.0	1854.9	1743.8	1543.3	3269.9	7817.6	16003.1	24116.4	24361.6
70°	1650.1	1629.9	1681.8	1586.6	1214.5	1487.1	5051.2	15071.3	25739.1	26199.2
72.5°	1344.3	1321.2	1442.4	1399.1	1022.6	954.8	2537.1	12857.3	25568.9	26523.7
75°	1032.7	1019.8	1164.0	1200.1	833.7	751.5	1217.4	9557.1	22501.0	23463.0
77.5°	802.0	791.9	865.4	996.7	672.1	582.7	748.6	6062.3	16956.5	17125.3
80°	601.5	572.6	640.4	771.7	523.6	425.5	507.7	3535.2	10718.2	9715.8
82.5°	376.5	362.0	418.3	514.9	369.2	292.8	330.3	1953.0	4295.4	2529.9
85°	214.9	209.1	227.9	294.2	200.5	168.8	189.0	862.5	784.6	539.4
87.5°	86.5	83.7	103.9	131.3	73.6	62.0	66.3	207.7	173.1	160.1
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°
5473.8	0°	5473.8	5473.8	5473.8	5473.8	5473.8	5473.8	5473.8	5473.8	5473.8	5473.8
5495.4	2.5°	5489.7	5489.7	5469.5	5437.7	5401.7	5378.6	5341.1	5331.0	5292.1	5280.5
5544.5	5°	5556.0	5544.5	5482.4	5393.0	5270.4	5157.9	5033.9	4956.0	4846.4	4807.4
5641.1	7.5°	5639.7	5607.9	5501.2	5305.0	5048.3	4795.9	4533.4	4334.3	4143.9	4076.1
5720.4	10°	5716.1	5671.4	5489.7	5146.4	4702.1	4265.1	3846.8	3554.0	3331.9	3241.0
5808.4	12.5°	5792.6	5710.3	5413.2	4882.4	4210.3	3617.5	3171.8	2943.9	2806.9	2697.2
5880.5	15°	5864.7	5749.3	5294.9	4529.0	3670.8	3069.4	2740.5	2558.8	2449.1	2377.0
5985.8	17.5°	5948.3	5782.5	5117.5	4080.5	3157.3	2690.0	2421.7	2312.1	2290.5	2281.8
6130.1	20°	6065.2	5812.7	4883.9	3578.5	2779.4	2387.1	2248.7	2238.6	2237.1	2232.8
6303.2	22.5°	6190.6	5848.8	4575.2	3122.7	2457.8	2198.2	2173.7	2153.5	2140.5	2139.0
6512.3	25°	6339.2	5860.3	4188.6	2749.2	2183.7	2108.7	2079.9	2049.6	2041.0	2041.0
6750.3	27.5°	6483.5	5821.4	3738.6	2424.6	2029.4	2026.5	1989.0	1978.9	1977.5	1981.8
7021.5	30°	6627.7	5747.8	3291.5	2124.6	1940.0	1940.0	1927.0	1934.2	1940.0	1954.4
7393.6	32.5°	6822.4	5670.0	2917.9	1902.5	1862.1	1847.7	1860.7	1875.1	1880.8	1899.6
7882.5	35°	7108.0	5615.1	2620.8	1781.3	1781.3	1762.6	1769.8	1766.9	1753.9	1745.3
8473.9	37.5°	7485.9	5612.3	2375.6	1725.1	1713.5	1710.7	1712.1	1693.3	1642.9	1582.3
9189.3	40°	7940.2	5690.1	2186.6	1686.1	1677.5	1694.8	1686.1	1635.6	1497.2	1391.9
10069.2	42.5°	8550.4	5912.3	2065.5	1638.5	1664.5	1686.1	1651.5	1477.0	1383.2	1312.6
11071.6	45°	9268.7	6272.9	2003.5	1588.0	1640.0	1665.9	1498.6	1422.2	1347.2	1262.1
12164.9	47.5°	10082.2	6727.2	1989.0	1540.5	1585.2	1601.0	1433.7	1399.1	1314.0	1221.7
13264.0	50°	10967.8	7265.2	2028.0	1484.2	1505.8	1451.0	1412.1	1380.3	1292.4	1201.5
14390.5	52.5°	11883.7	7858.0	2105.9	1407.8	1426.5	1365.9	1403.4	1376.0	1279.4	1156.8
15554.5	55°	12783.7	8455.2	2180.9	1318.3	1345.7	1289.5	1378.9	1358.7	1220.2	1081.8
16796.4	57.5°	13698.2	9049.4	2254.4	1239.0	1267.8	1215.9	1340.0	1312.6	1153.9	1012.5
18152.2	60°	14648.7	9626.4	2289.0	1162.5	1182.7	1148.1	1280.8	1233.2	1078.9	941.9
19485.0	62.5°	15538.6	10106.7	2232.8	1086.1	1099.1	1084.7	1202.9	1139.5	1003.9	862.5
20874.0	65°	16431.5	10392.3	2059.7	1011.1	1014.0	1006.8	1093.3	1038.5	915.9	793.3
22089.9	67.5°	17240.6	10552.4	1784.2	930.3	923.1	920.2	990.9	928.9	830.8	724.1
23014.4	70°	17412.3	10145.6	1363.0	835.1	835.1	827.9	878.4	814.9	737.1	650.5
22352.4	72.5°	15903.6	8534.5	967.8	727.0	738.5	724.1	765.9	712.5	641.9	584.2
19264.3	75°	12824.1	6258.4	703.9	615.9	636.1	611.6	650.5	613.0	552.4	551.0
13275.6	77.5°	8811.4	3869.9	510.6	507.7	522.1	490.4	535.1	514.9	460.1	435.6
5778.1	80°	3760.3	1543.3	372.1	392.3	392.3	363.5	415.4	421.2	373.6	362.0
1115.0	82.5°	748.6	438.5	261.1	269.7	253.9	245.2	294.2	326.0	450.0	500.5
336.1	85°	225.0	161.5	157.2	147.1	129.8	131.3	173.1	327.4	403.9	230.8
111.1	87.5°	62.0	40.4	41.8	33.2	27.4	36.1	59.1	248.1	135.6	57.7
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>
5473.8
5299.3
4836.3
4084.8
3261.2
2733.3
2390.0
2287.6
2247.2
2154.9
2049.6
1993.4
1964.5
1915.5
1765.5
1583.7
1389.0
1309.7
1256.3
1214.5
1191.4
1148.1
1074.6
1009.7
937.5
861.1
784.6
715.4
647.6
566.9
496.2
408.2
362.0
501.9
199.0
49.0
0.0

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