

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: P953228

Luminaire Tested: **GALN-SB6D-830-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953228
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6D-830-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42711 lumens
Efficiency: N/A
Efficacy: 97.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

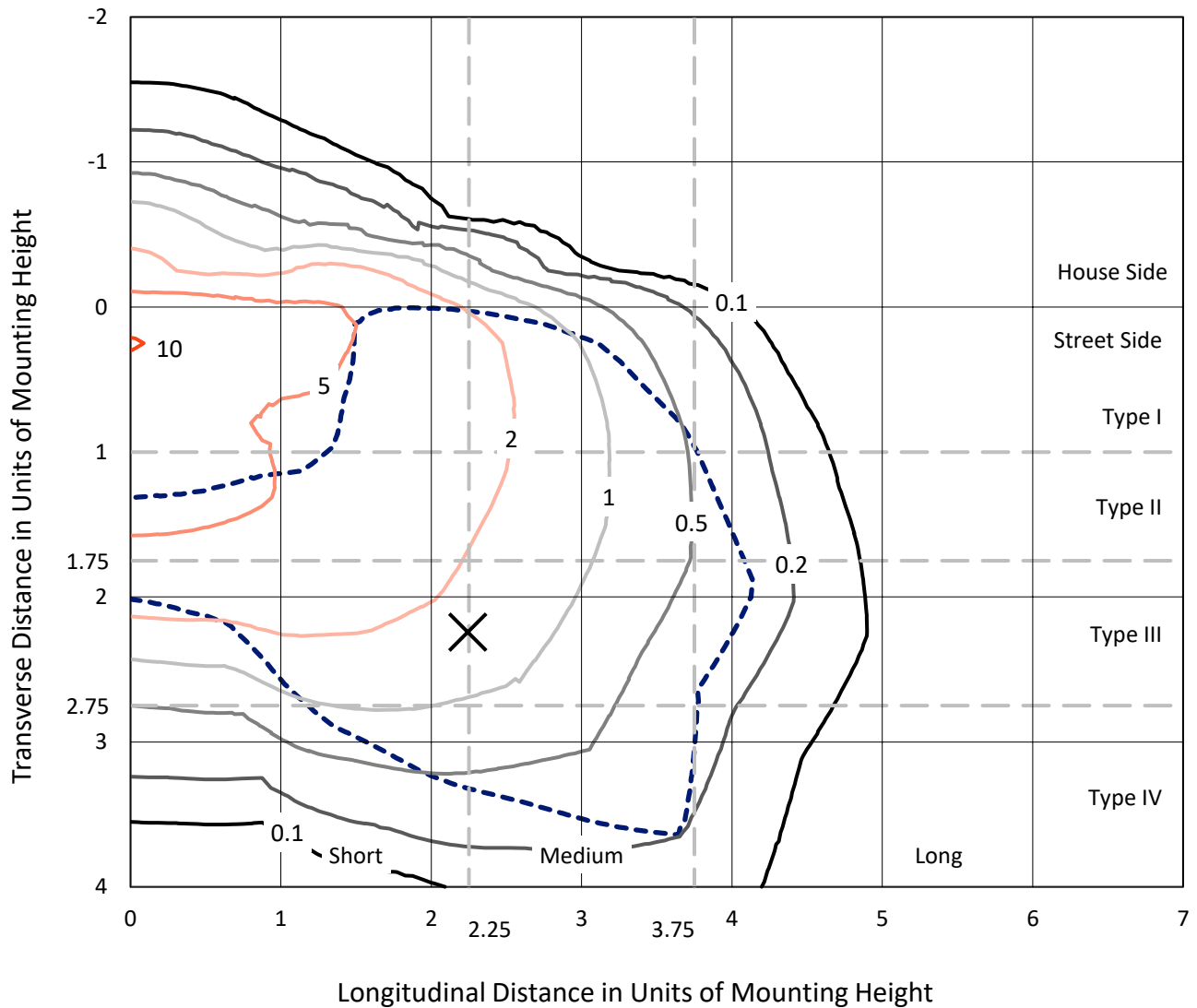
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

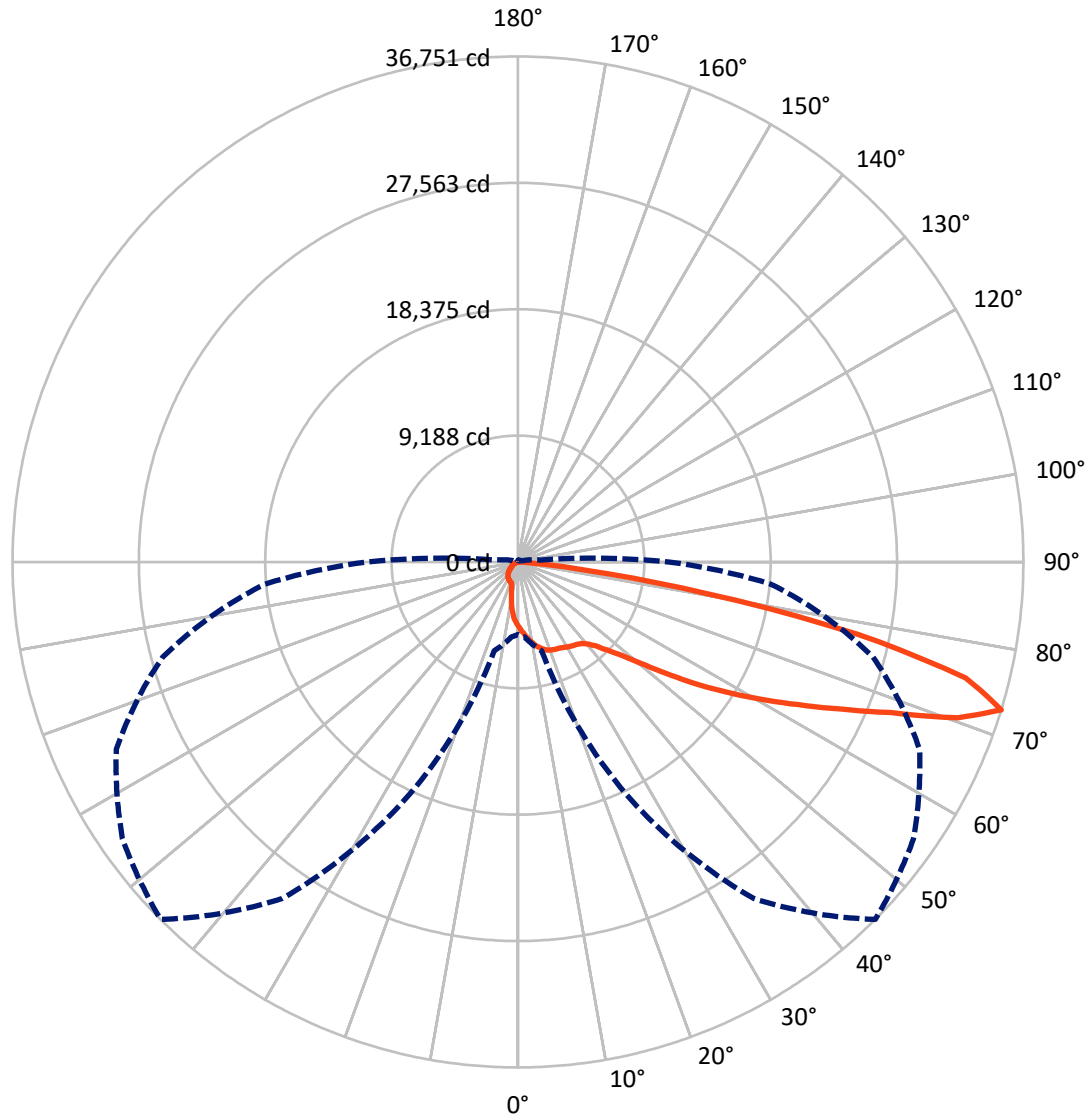
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4487.7	0.0	4487.7
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	38223.3	0.0	38223.3
	% Fixture	89.5	0.0	89.5
Total	Lumens	42711.0	0.0	42711.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	440.9	1.0
10°-20°	1288.5	3.0
20°-30°	2115.9	5.0
30°-40°	3000.8	7.0
40°-50°	4960.0	11.6
50°-60°	8910.0	20.9
60°-70°	12372.0	29.0
70°-80°	8974.3	21.0
80°-90°	648.8	1.5
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°	42711.0	100.0
0°-180°	42711.0	100.0

Coefficient of Utilization



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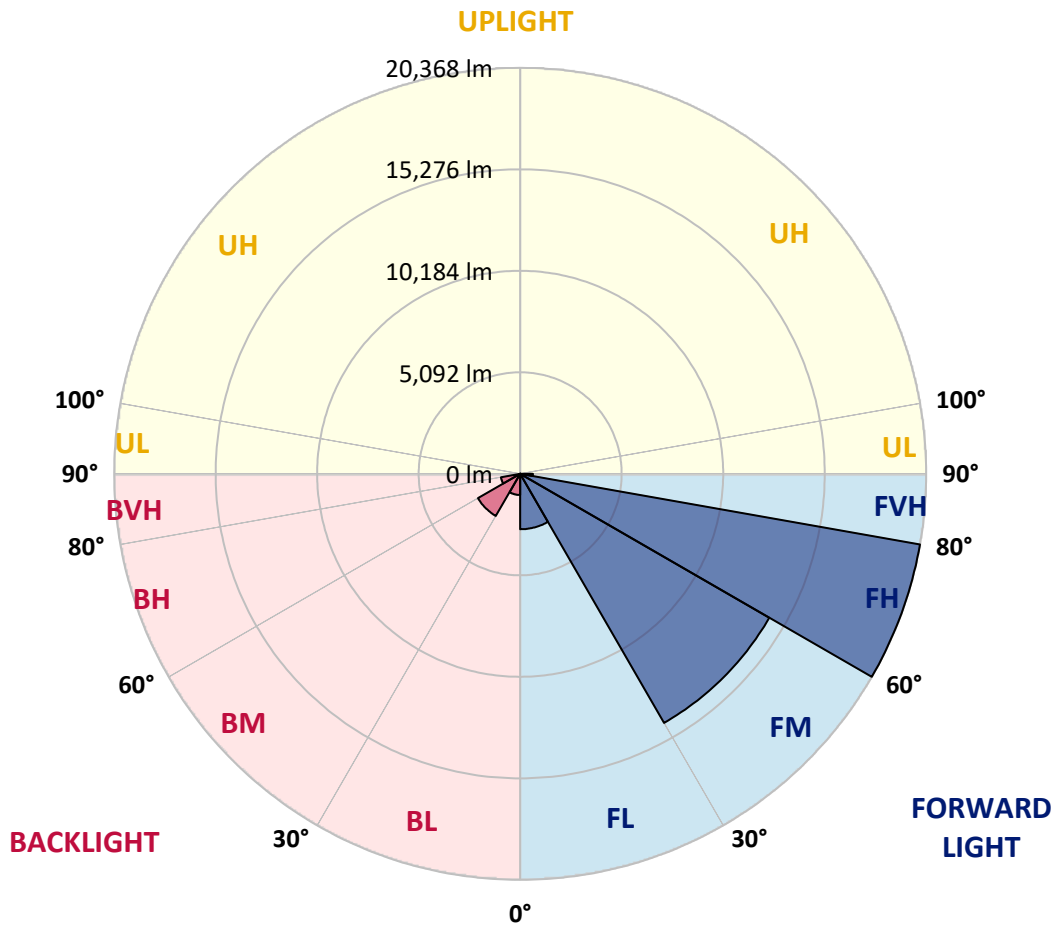
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2782.2	6.5			
FM (30°-60°)	14430.0	33.8			
FH (60°-80°)	20367.7	47.7			G5
FVH (80°-90°)	643.4	1.5			G4/750
BL (0°-30°)	1063.0	2.5	B3/2500		
BM (30°-60°)	2440.7	5.7	B2/2500		
BH (60°-80°)	978.6	2.3	B2/1000		G2/1000
BVH (80°-90°)	5.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	4679.1	4679.1	4679.1	4679.1	4679.1	4679.1	4679.1	4679.1	4679.1	4679.1
2.5°	5110.5	5119.3	5113.5	5078.5	5020.2	4988.1	4970.6	4912.3	4874.4	4807.4
5°	5579.9	5614.9	5594.5	5524.5	5413.7	5335.0	5311.7	5192.2	5084.3	4959.0
7.5°	6078.4	6095.9	6058.0	5967.7	5819.0	5684.9	5664.5	5498.3	5326.3	5133.9
10°	6509.9	6530.3	6472.0	6340.8	6171.7	6005.5	5976.4	5792.7	5588.7	5352.5
12.5°	6871.4	6891.8	6816.0	6658.6	6472.0	6300.0	6270.8	6078.4	5854.0	5591.6
15°	7145.4	7183.3	7081.3	6912.2	6711.1	6539.1	6524.5	6335.0	6116.3	5824.8
17.5°	7305.8	7343.7	7247.5	7043.4	6871.4	6725.6	6708.1	6550.7	6346.6	6066.8
20°	7332.0	7367.0	7265.0	7087.1	6944.3	6827.7	6818.9	6705.2	6556.5	6288.3
22.5°	7253.3	7297.0	7203.7	7060.9	6961.8	6900.6	6888.9	6824.8	6740.2	6512.8
25°	7171.7	7206.7	7136.7	7011.3	6958.9	6953.0	6961.8	6950.1	6932.6	6740.2
27.5°	7165.8	7203.7	7125.0	7005.5	6976.3	7037.6	7046.3	7101.7	7116.3	6947.2
30°	7215.4	7241.6	7165.8	7040.5	7025.9	7165.8	7168.8	7267.9	7291.2	7122.1
32.5°	7323.3	7352.4	7276.6	7093.0	7072.6	7267.9	7276.6	7407.8	7445.7	7308.7
35°	7576.9	7611.9	7524.4	7238.7	7165.8	7364.1	7390.3	7544.8	7620.6	7506.9
37.5°	8209.5	8107.5	7988.0	7533.2	7378.7	7515.7	7559.4	7740.2	7874.3	7743.1
40°	9780.9	9460.2	9087.0	8034.6	7751.8	7839.3	7874.3	8055.0	8238.7	8110.4
42.5°	12139.4	11760.4	11159.8	9189.1	8314.5	8358.2	8384.4	8541.9	8801.3	8699.3
45°	14241.3	14104.3	13492.1	11159.8	9366.9	9151.2	9183.2	9264.9	9646.8	9608.9
47.5°	15856.4	15777.7	15305.4	13422.1	11145.3	10122.0	10212.3	10250.2	10801.2	10935.3
50°	17098.3	17069.2	16646.4	15433.7	13468.8	11553.4	11585.5	11503.8	12328.9	12661.2
52.5°	18270.3	18369.4	18057.5	17302.4	15949.7	13427.9	13422.1	13037.3	14150.9	14652.4
55°	19328.5	19363.5	19395.6	19209.0	18445.2	15562.0	15506.6	14876.9	16264.5	16783.5
57.5°	20322.7	20337.2	20622.9	21004.8	21042.7	17853.4	17751.4	16996.3	18573.5	18943.7
60°	20990.3	21057.3	21660.8	22722.0	23185.5	20217.7	20162.3	19392.7	20923.2	21095.2
62.5°	20028.2	20436.4	21958.2	24063.0	25208.7	22838.6	22812.3	22089.3	23395.4	23255.5
65°	16212.1	16903.0	19579.3	24969.7	27194.1	25765.6	25803.5	25033.8	25934.6	25479.9
67.5°	11340.6	12069.4	15235.4	25042.6	29412.6	29202.7	29421.4	28214.4	28631.3	27611.0
70°	7842.2	8218.3	10279.4	23474.1	31141.4	33937.2	33931.4	32120.9	31313.4	28581.8
72.5°	5273.8	5469.1	6676.1	18623.0	29870.3	36750.5	36581.4	35106.2	32217.1	26730.5
75°	2224.4	2367.2	3090.2	10466.0	23631.5	33622.3	33164.6	31024.8	28625.5	21048.6
77.5°	705.5	766.7	1218.6	3746.2	13016.9	25272.9	24788.9	19375.2	19185.7	10559.3
80°	335.3	390.7	685.1	1504.3	5122.2	13745.7	13678.7	8789.7	8253.3	2851.2
82.5°	145.8	172.0	379.0	804.6	2291.4	4903.6	5002.7	2991.1	2475.1	1081.6
85°	46.6	61.2	174.9	370.2	967.9	1218.6	1204.0	711.3	997.0	588.9
87.5°	0.0	0.0	58.3	84.5	99.1	70.0	78.7	61.2	277.0	163.3
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°
4679.1	0°	4679.1	4679.1	4679.1	4679.1	4679.1	4679.1	4679.1	4679.1	4679.1	4679.1
4737.4	2.5°	4702.4	4655.8	4574.1	4498.3	4431.3	4364.2	4323.4	4265.1	4259.3	4259.3
4813.2	5°	4734.5	4658.7	4512.9	4358.4	4180.6	4011.5	3842.4	3679.1	3626.7	3588.8
4935.6	7.5°	4827.8	4708.2	4477.9	4183.5	3845.3	3475.1	3215.6	2935.7	2827.9	2769.5
5098.9	10°	4961.9	4798.6	4448.8	3932.8	3384.7	2880.3	2510.1	2206.9	2090.3	2040.7
5276.7	12.5°	5110.5	4909.4	4396.3	3620.8	2880.3	2276.9	1915.4	1775.4	1757.9	1757.9
5489.5	15°	5288.4	5043.5	4305.9	3253.5	2352.7	1801.7	1673.4	1679.2	1696.7	1708.4
5696.5	17.5°	5472.0	5186.3	4163.1	2842.4	1886.2	1620.9	1623.8	1632.6	1647.2	1658.8
5921.0	20°	5670.3	5329.2	3973.6	2405.1	1618.0	1568.4	1577.2	1585.9	1597.6	1603.4
6130.9	22.5°	5883.1	5463.3	3749.1	1976.6	1527.6	1524.7	1527.6	1536.4	1550.9	1550.9
6375.8	25°	6110.5	5612.0	3492.5	1664.6	1481.0	1481.0	1486.8	1492.6	1504.3	1504.3
6611.9	27.5°	6343.7	5749.0	3221.4	1501.4	1440.2	1437.3	1437.3	1446.0	1451.8	1454.7
6845.2	30°	6600.3	5909.3	2950.3	1466.4	1408.1	1393.5	1384.8	1390.6	1396.4	1399.4
7090.0	32.5°	6862.7	6063.9	2708.3	1481.0	1376.0	1349.8	1320.6	1314.8	1314.8	1326.5
7343.7	35°	7154.2	6232.9	2521.7	1530.5	1358.5	1285.7	1239.0	1212.8	1215.7	1233.2
7646.9	37.5°	7504.0	6437.0	2384.7	1574.3	1346.9	1212.8	1137.0	1104.9	1084.5	1104.9
8063.8	40°	7961.7	6737.3	2285.6	1609.3	1332.3	1128.2	1026.2	973.7	935.8	947.5
8711.0	42.5°	8635.2	7209.6	2247.7	1612.2	1300.2	1029.1	912.5	842.5	787.1	790.1
9684.7	45°	9579.7	7955.9	2443.0	1574.3	1230.3	921.2	793.0	699.7	664.7	655.9
11139.4	47.5°	10874.1	9043.3	2894.9	1495.6	1128.2	816.3	676.4	597.6	571.4	556.8
13049.0	50°	12608.7	10439.7	3396.3	1408.1	1026.2	717.2	580.1	530.6	513.1	498.5
15314.2	52.5°	14620.3	11856.6	3807.4	1320.6	924.2	629.7	518.9	489.8	475.2	463.5
17500.6	55°	16465.7	12833.2	3784.1	1227.3	825.0	559.7	475.2	457.7	440.2	428.6
19383.9	57.5°	17614.3	12970.2	3119.4	1125.3	711.3	504.3	434.4	422.7	402.3	387.7
21013.6	60°	18142.0	12188.9	2186.5	991.2	597.6	451.9	390.7	384.8	358.6	338.2
22555.8	62.5°	18238.2	10737.1	1457.7	825.0	498.5	402.3	346.9	338.2	303.2	268.2
23809.4	65°	17847.6	8661.4	1008.7	644.3	425.6	349.8	297.4	279.9	242.0	207.0
24106.7	67.5°	16611.5	6081.3	702.6	463.5	361.5	277.0	236.1	230.3	201.2	172.0
22590.8	70°	14346.3	3466.3	469.4	346.9	285.7	189.5	186.6	192.4	163.3	139.9
18456.9	72.5°	10999.5	1585.9	291.5	253.6	195.3	128.3	148.7	151.6	125.4	105.0
11515.5	75°	6474.9	679.3	183.7	163.3	99.1	84.5	107.9	110.8	84.5	67.1
4209.7	77.5°	2204.0	256.5	116.6	96.2	49.6	46.6	70.0	70.0	46.6	26.2
845.4	80°	501.4	96.2	58.3	37.9	23.3	20.4	23.3	20.4	11.7	2.9
259.5	82.5°	142.9	37.9	23.3	14.6	8.7	8.7	2.9	0.0	0.0	0.0
90.4	85°	40.8	17.5	5.8	5.8	0.0	0.0	0.0	0.0	0.0	0.0
32.1	87.5°	17.5	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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>
4679.1
4273.9
3606.2
2778.3
2040.7
1757.9
1708.4
1658.8
1606.3
1556.8
1507.2
1457.7
1405.2
1335.2
1241.9
1099.1
941.6
778.4
644.3
548.1
495.6
460.6
422.7
384.8
332.3
250.7
195.3
163.3
128.3
93.3
58.3
20.4
0.0
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