

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: P954356

Luminaire Tested: **GALN-SB7C-850-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954356
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7C-850-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43134 lumens
Efficiency: N/A
Efficacy: 123.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

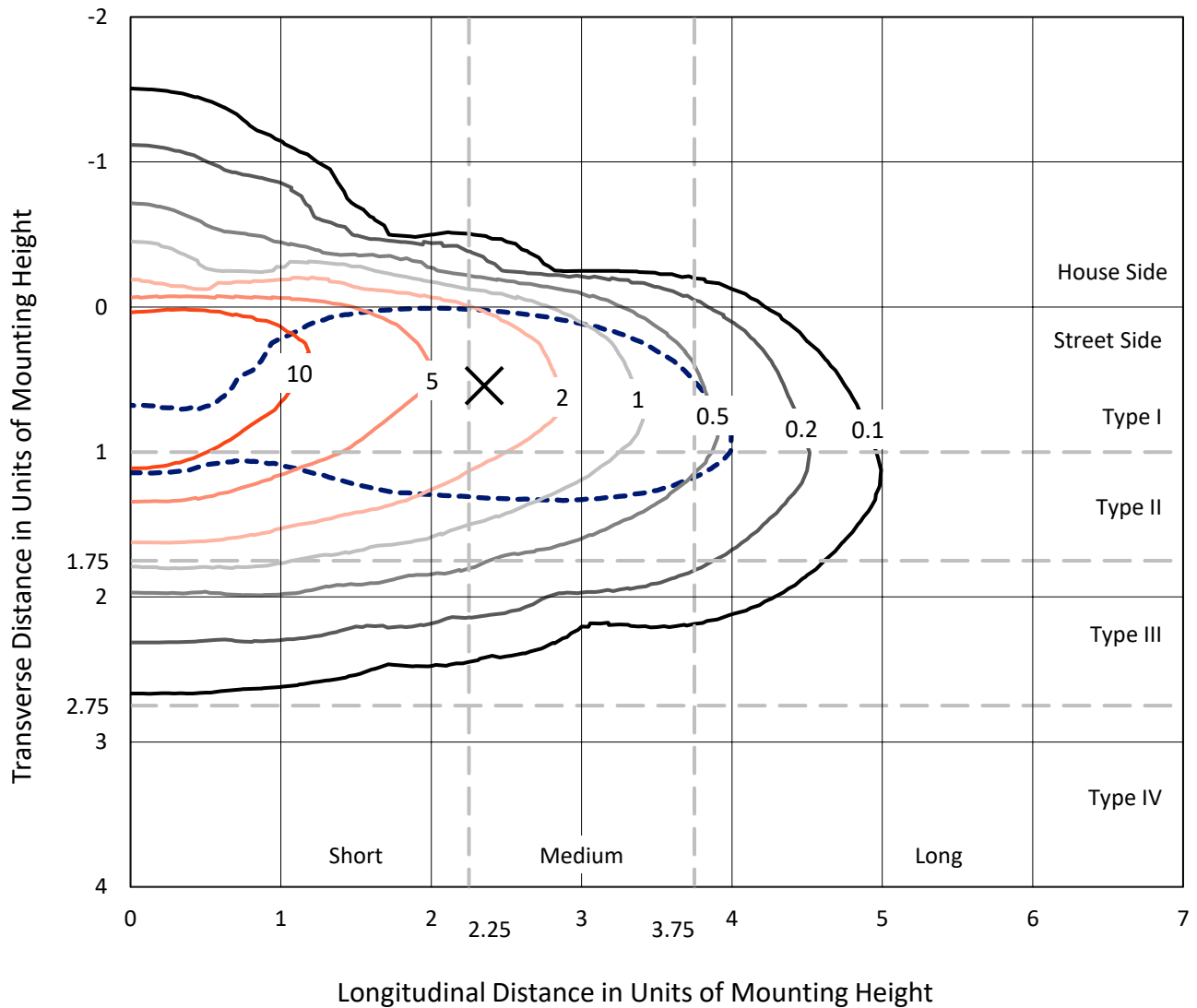
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

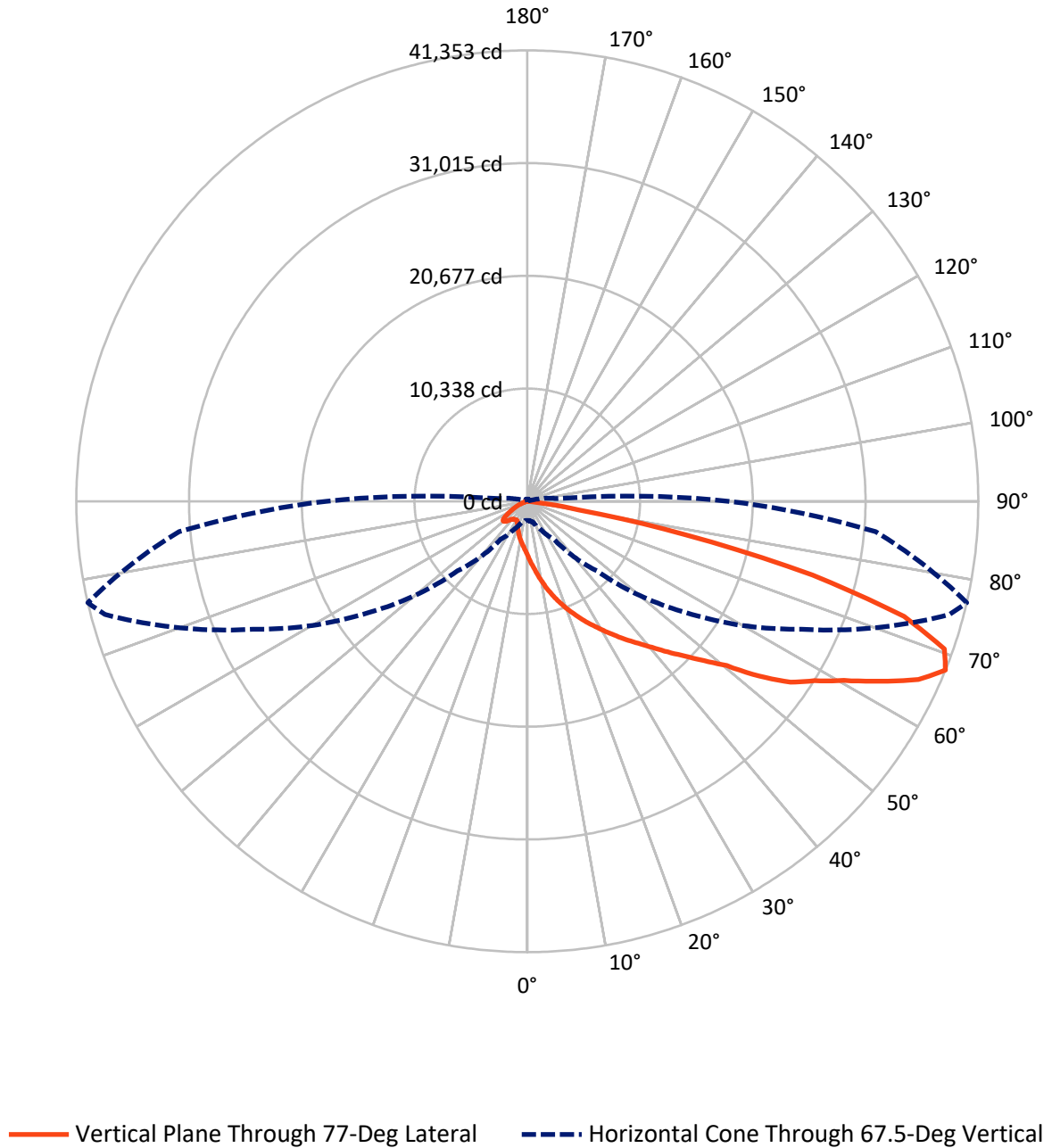
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3173.4	0.0	3173.4
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	39960.6	0.0	39960.6
	% Fixture	92.6	0.0	92.6
Total	Lumens	43134.0	0.0	43134.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	507.7	1.2
10°-20°	1777.8	4.1
20°-30°	3430.7	8.0
30°-40°	5955.9	13.8
40°-50°	8647.7	20.0
50°-60°	9930.7	23.0
60°-70°	8621.7	20.0
70°-80°	4060.9	9.4
80°-90°	200.8	0.5
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°	43134.0	100.0
0°-180°	43134.0	100.0

Coefficient of Utilization



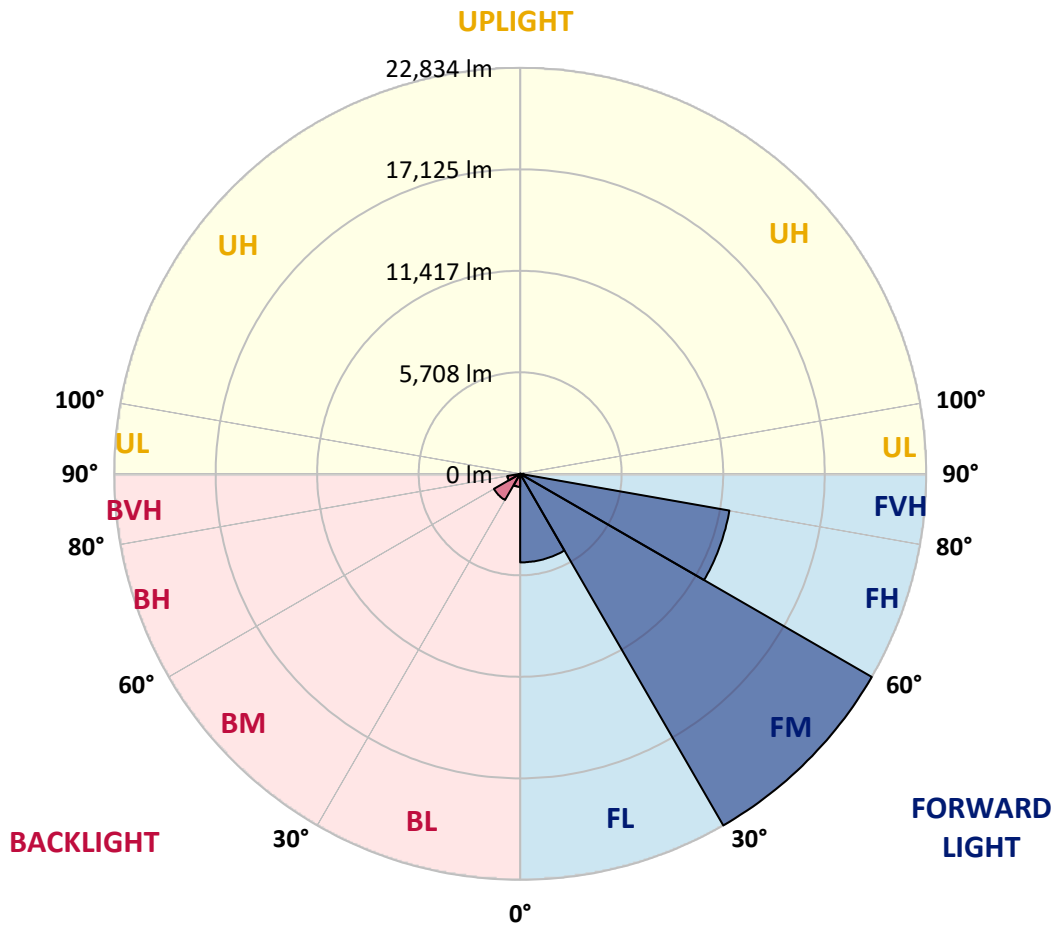
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4981.5	11.5			
FM (30°-60°)	22834.0	52.9			
FH (60°-80°)	11948.0	27.7			G4/12000
FVH (80°-90°)	197.1	0.5			G2/225
BL (0°-30°)	734.7	1.7	B2/1000		
BM (30°-60°)	1700.3	3.9	B2/2500		
BH (60°-80°)	734.7	1.7	B2/1000		G2/1000
BVH (80°-90°)	3.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	4974.0	4974.0	4974.0	4974.0	4974.0	4974.0	4974.0	4974.0	4974.0	4974.0
2.5°	6886.4	6929.3	6867.7	6749.8	6573.1	6457.9	6176.6	5911.5	5616.8	5523.1
5°	8394.4	8431.9	8362.3	8233.7	7998.0	7773.0	7403.4	6848.9	6273.1	6088.2
7.5°	9511.4	9532.8	9506.0	9388.2	9163.2	8908.7	8496.2	7840.0	6985.5	6782.0
10°	10314.9	10384.6	10376.5	10331.0	10181.0	9974.8	9535.5	8788.2	7783.7	7521.2
12.5°	10847.9	10925.6	10971.2	11072.9	11064.9	10933.7	10548.0	9757.8	8579.3	8271.2
15°	11003.3	11086.3	11260.4	11496.1	11705.1	11772.0	11501.5	10708.7	9455.1	9061.4
17.5°	10914.9	11043.5	11252.4	11624.7	12082.7	12385.4	12355.9	11627.4	10250.6	9800.7
20°	11110.4	11233.7	11397.0	11710.4	12243.4	12792.5	13012.2	12505.9	11040.8	10569.4
22.5°	12192.6	12171.1	12187.2	12238.1	12556.8	13100.6	13553.2	13304.1	11822.9	11340.8
25°	13906.8	13810.4	13647.0	13371.1	13290.7	13553.2	14024.7	14011.3	12647.9	12131.0
27.5°	15872.8	15856.8	15473.7	14809.5	14434.5	14332.7	14557.7	14699.6	13464.8	12913.1
30°	17755.8	17798.7	17281.7	16542.4	15854.1	15455.0	15251.4	15353.2	14295.2	13756.8
32.5°	19395.1	19440.6	18878.1	18012.9	17161.2	16679.1	16250.5	15998.7	15200.5	14613.9
35°	20779.8	20825.4	20179.9	19223.6	18315.6	17879.0	17394.2	16705.8	16111.2	15564.8
37.5°	22017.3	22003.9	21138.8	20174.5	19282.6	18937.0	18682.6	17576.4	17048.7	16521.0
40°	22748.5	22804.8	22065.5	21002.2	20137.0	19885.2	19869.2	18655.8	18130.8	17619.2
42.5°	22962.8	23061.9	22526.2	21653.0	20868.2	20595.0	21015.6	19823.6	19389.7	18891.5
45°	22577.1	22673.5	22429.8	21824.5	21366.4	21189.7	22001.2	21034.3	20734.3	20241.5
47.5°	21452.1	21572.7	21631.6	21503.0	21497.7	21677.1	22885.1	22309.3	22330.7	21827.1
50°	19274.5	19478.1	20019.1	20474.5	21178.9	22062.8	23744.9	23691.4	24130.7	23696.7
52.5°	15315.7	15605.0	17469.2	18714.7	20297.7	21990.5	24690.5	25909.2	27288.6	26653.8
55°	12307.7	12307.7	13823.8	16154.1	18578.1	21513.8	25103.0	27350.2	29439.5	29289.5
57.5°	10033.7	10154.2	11121.2	13180.9	16089.8	20378.1	25357.4	28255.6	31172.4	31062.6
60°	6192.7	6452.5	8279.3	10312.2	13258.6	18355.8	25196.7	29171.6	33275.1	33363.5
62.5°	3487.4	3583.8	4398.1	7419.5	10309.6	15637.1	23967.3	29683.2	35964.3	36339.3
65°	2408.0	2456.2	2769.6	4617.7	7146.3	12449.7	21564.6	29364.5	38658.9	39416.9
67.5°	1749.1	1773.2	1968.7	2820.5	4240.1	9026.6	17798.7	27757.3	40086.5	41353.4
70°	1344.6	1360.7	1502.6	1853.5	2504.4	5571.3	12926.5	24561.9	39052.6	40566.0
72.5°	1092.8	1108.9	1218.7	1371.4	1660.7	3294.6	7834.6	19946.8	34488.4	36122.3
75°	921.4	942.8	1041.9	1141.0	1301.8	2116.0	3674.9	13890.7	25936.0	27007.4
77.5°	511.6	471.4	846.4	945.5	1098.2	1339.3	1719.6	8174.8	14525.5	14822.8
80°	318.7	329.5	672.3	760.7	843.7	675.0	787.5	3147.2	5035.6	4783.8
82.5°	18.7	42.9	517.0	549.1	578.6	289.3	297.3	1068.7	1213.4	1114.3
85°	0.0	0.0	235.7	190.2	200.9	83.0	85.7	249.1	163.4	176.8
87.5°	0.0	0.0	0.0	5.4	0.0	8.0	16.1	21.4	8.0	10.7
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°
4974.0	0°	4974.0	4974.0	4974.0	4974.0	4974.0	4974.0	4974.0	4974.0	4974.0	4974.0
5228.4	2.5°	5040.9	4853.5	4473.1	4100.8	3798.1	3516.9	3316.0	3125.8	3029.4	3024.0
5565.9	5°	5193.6	4799.9	4039.2	3366.9	2825.8	2391.9	2110.7	1909.8	1808.0	1773.2
5981.1	7.5°	5407.9	4816.0	3658.8	2724.0	2086.6	1714.2	1553.5	1489.2	1467.8	1443.7
6449.8	10°	5678.4	4853.5	3318.7	2193.7	1644.6	1457.1	1392.8	1366.0	1350.0	1333.9
6977.5	12.5°	5981.1	4888.3	2981.2	1821.4	1446.4	1350.0	1304.4	1272.3	1250.9	1232.1
7518.6	15°	6275.7	4909.7	2630.3	1561.6	1344.6	1266.9	1218.7	1183.9	1154.4	1133.0
8048.9	17.5°	6567.7	4939.2	2300.8	1406.2	1261.6	1183.9	1135.7	1092.8	1068.7	1044.6
8606.0	20°	6891.8	4933.8	1990.1	1296.4	1178.5	1100.9	1050.0	1009.8	985.7	958.9
9195.3	22.5°	7191.8	4907.0	1716.9	1202.6	1092.8	1017.8	961.6	921.4	897.3	875.9
9798.0	25°	7537.3	4885.6	1489.2	1116.9	1012.5	937.5	875.9	838.4	811.6	792.8
10403.3	27.5°	7869.4	4853.5	1323.2	1039.3	934.8	862.5	803.6	760.7	736.6	723.2
11027.4	30°	8196.2	4845.4	1261.6	964.3	865.2	792.8	733.9	693.7	675.0	669.6
11713.1	32.5°	8590.0	4866.8	1288.4	937.5	800.9	728.6	672.3	642.8	624.1	624.1
12476.5	35°	9010.5	4861.5	1328.5	961.6	758.0	664.3	621.4	602.7	583.9	583.9
13322.9	37.5°	9538.2	4869.5	1360.7	1001.8	741.9	610.7	586.6	562.5	551.8	551.8
14249.6	40°	10325.6	5134.7	1344.6	1036.6	736.6	573.2	525.0	517.0	508.9	508.9
15296.9	42.5°	11289.9	5710.6	1366.0	1039.3	733.9	546.4	482.1	498.2	479.5	476.8
16478.2	45°	12345.2	6340.0	1502.6	983.0	731.2	533.0	460.7	479.5	450.0	450.0
17846.9	47.5°	13392.5	6964.1	1641.9	902.7	723.2	530.3	442.0	431.2	423.2	425.9
19630.8	50°	14836.2	7473.0	1695.5	792.8	704.4	525.0	407.1	409.8	404.5	409.8
22145.9	52.5°	16408.5	7580.2	1631.2	669.6	650.9	508.9	383.0	393.7	391.1	396.4
23916.4	55°	17388.9	7465.0	1347.3	557.1	567.8	444.6	358.9	380.3	380.3	380.3
25646.7	57.5°	18401.3	6974.8	956.2	452.7	471.4	364.3	337.5	367.0	364.3	361.6
27730.6	60°	19129.9	6182.0	629.4	372.3	375.0	300.0	313.4	345.5	342.8	329.5
29878.7	62.5°	19673.6	5306.1	404.5	316.1	286.6	270.5	286.6	313.4	302.7	273.2
31700.1	65°	19612.0	4092.8	310.7	270.5	235.7	235.7	249.1	273.2	241.1	192.9
32048.3	67.5°	18468.3	2769.6	257.1	227.7	198.2	195.5	206.2	227.7	206.2	163.4
30264.4	70°	16424.6	1810.7	206.2	176.8	158.0	144.6	166.1	195.5	174.1	131.2
25764.5	72.5°	13330.9	1103.5	155.4	128.6	115.2	93.7	131.2	160.7	139.3	96.4
17916.5	75°	8624.8	562.5	107.1	83.0	61.6	56.2	96.4	120.5	96.4	58.9
7949.8	77.5°	3299.9	235.7	58.9	37.5	32.1	26.8	53.6	72.3	40.2	13.4
1540.1	80°	634.8	99.1	29.5	18.7	16.1	10.7	8.0	5.4	0.0	0.0
273.2	82.5°	109.8	32.1	10.7	5.4	0.0	0.0	0.0	0.0	0.0	0.0
53.6	85°	37.5	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18.7	87.5°	13.4	0.0	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>
4974.0
3018.7
1767.8
1438.4
1328.5
1226.8
1130.3
1041.9
956.2
873.2
790.2
723.2
666.9
624.1
583.9
551.8
508.9
474.1
450.0
425.9
409.8
396.4
380.3
361.6
329.5
267.9
187.5
158.0
125.9
91.1
50.9
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