

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: P957233

Luminaire Tested: **GALN-SB9C-927-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957233
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-SB9C-927-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 2700K, 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: 35155 lumens
Efficiency: N/A
Efficacy: 78.2 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

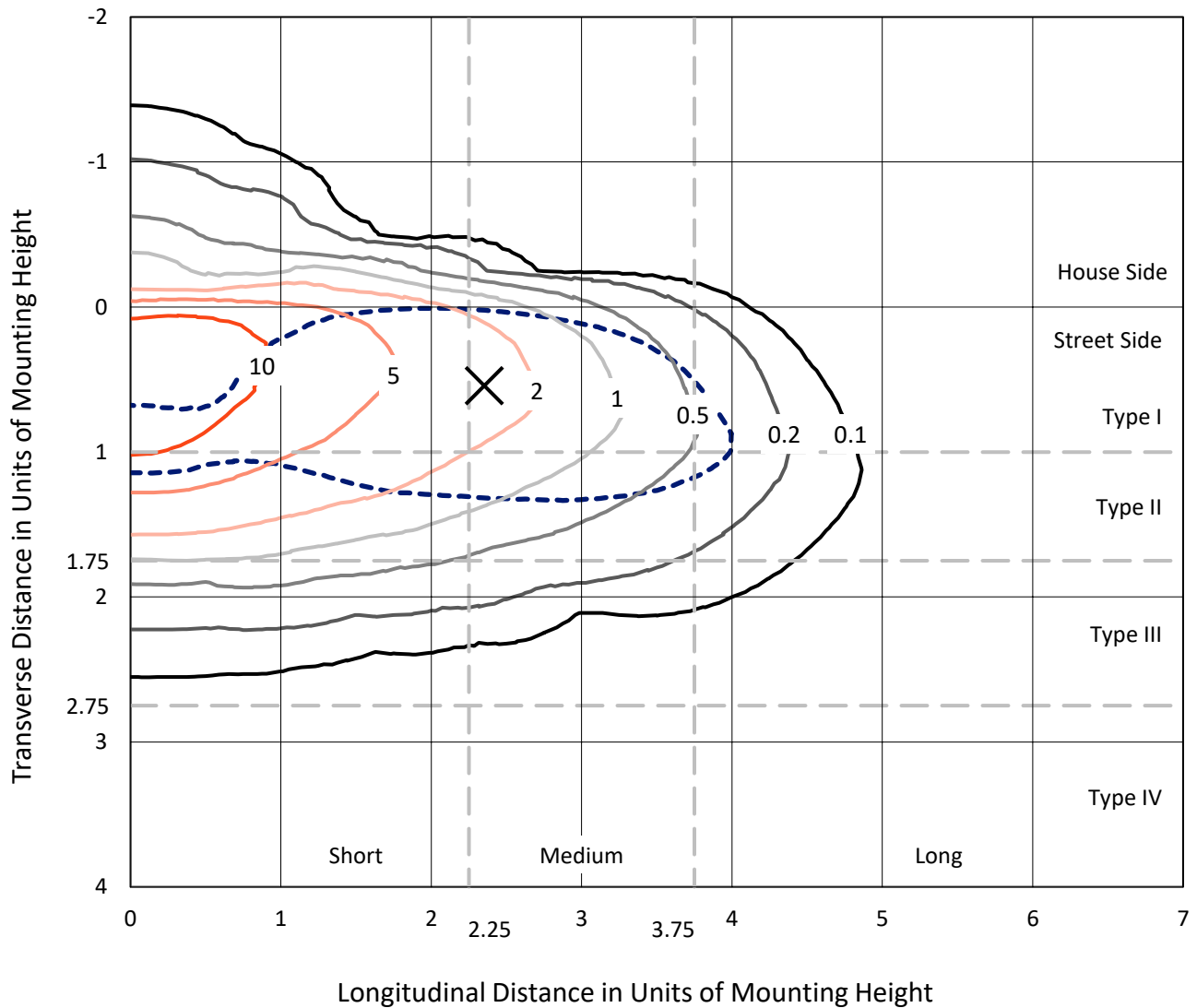
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

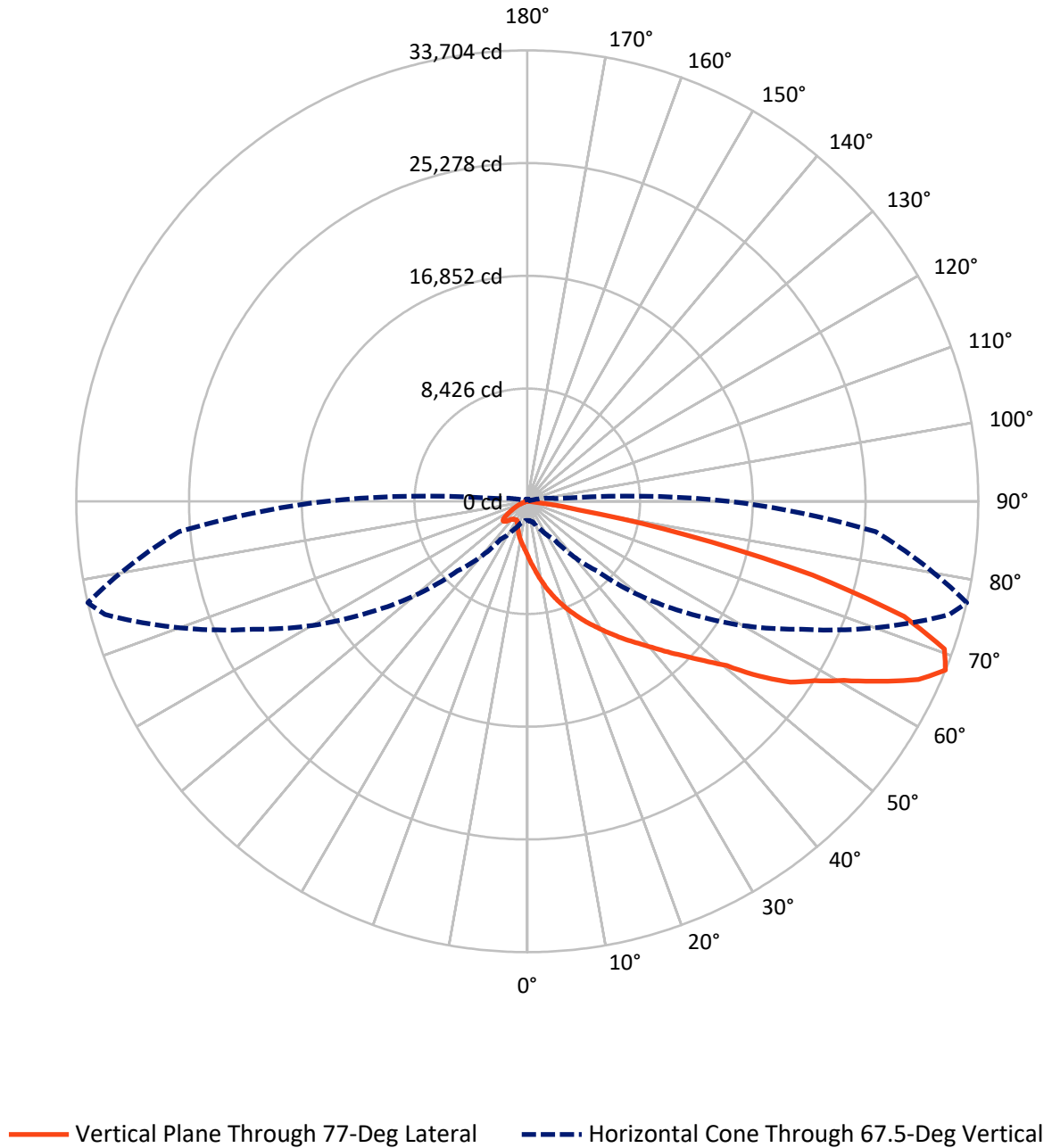
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.2 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	2586.4	0.0	2586.4
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	32568.6	0.0	32568.6
	% Fixture	92.6	0.0	92.6
Total	Lumens	35155.0	0.0	35155.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	413.8	1.2
10°-20°	1449.0	4.1
20°-30°	2796.1	8.0
30°-40°	4854.2	13.8
40°-50°	7048.0	20.0
50°-60°	8093.7	23.0
60°-70°	7026.9	20.0
70°-80°	3309.7	9.4
80°-90°	163.7	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°	35155.0	100.0
0°-180°	35155.0	100.0

Coefficient of Utilization



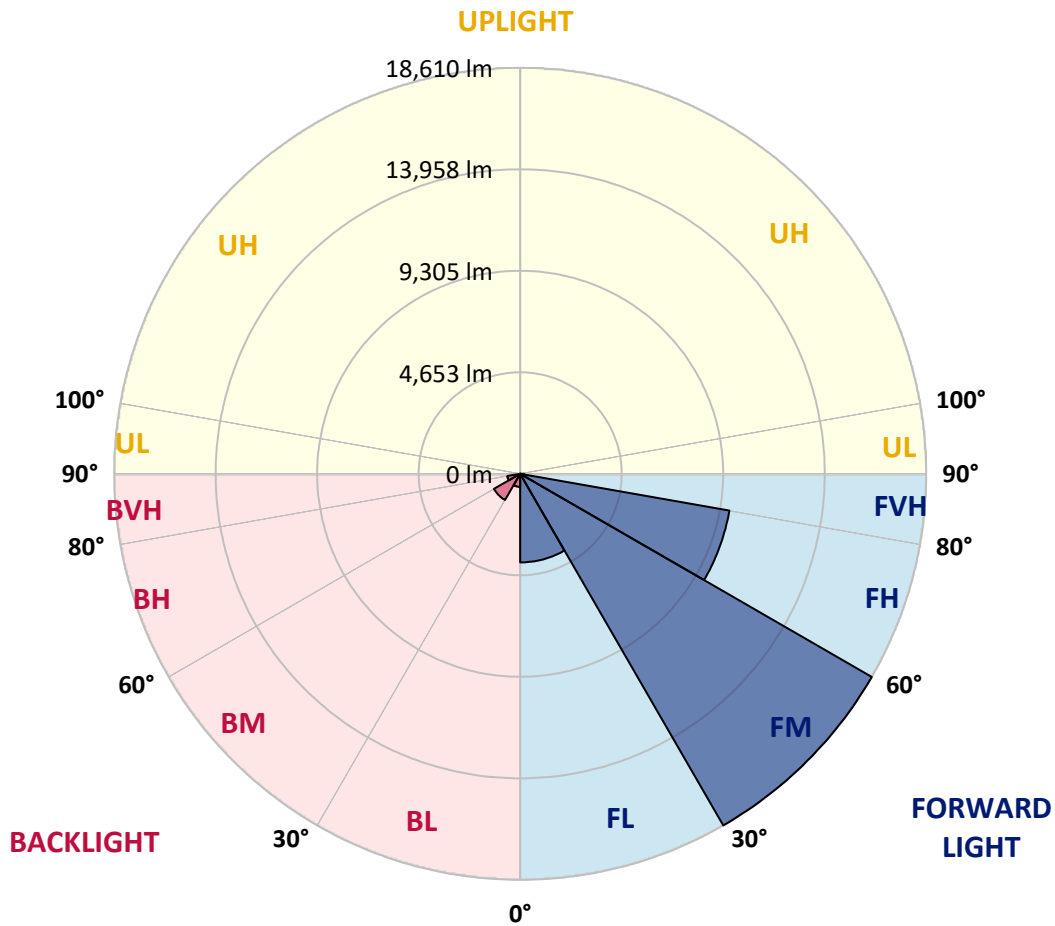
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4060.0	11.5			
FM (30°-60°)	18610.1	52.9			
FH (60°-80°)	9737.8	27.7			G4/12000
FVH (80°-90°)	160.7	0.5			G2/225
BL (0°-30°)	598.8	1.7	B2/1000		
BM (30°-60°)	1385.8	3.9	B2/2500		
BH (60°-80°)	598.8	1.7	B2/1000		G2/1000
BVH (80°-90°)	3.0	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°	4053.9	4053.9	4053.9	4053.9	4053.9	4053.9	4053.9	4053.9	4053.9	4053.9
2.5°	5612.6	5647.5	5597.3	5501.2	5357.2	5263.3	5034.1	4817.9	4577.8	4501.4
5°	6841.6	6872.2	6815.4	6710.6	6518.5	6335.2	6033.9	5582.0	5112.7	4962.0
7.5°	7751.9	7769.4	7747.6	7651.5	7468.1	7260.8	6924.6	6389.7	5693.3	5527.4
10°	8406.9	8463.6	8457.1	8419.9	8297.7	8129.6	7771.6	7162.5	6343.9	6130.0
12.5°	8841.3	8904.6	8941.7	9024.6	9018.1	8911.1	8596.8	7952.8	6992.2	6741.2
15°	8967.9	9035.6	9177.5	9369.6	9539.8	9594.4	9373.9	8727.8	7706.1	7385.2
17.5°	8895.9	9000.6	9170.9	9474.4	9847.7	10094.3	10070.3	9476.5	8354.5	7987.7
20°	9055.2	9155.6	9288.8	9544.2	9978.6	10426.2	10605.2	10192.6	8998.5	8614.2
22.5°	9937.2	9919.7	9932.8	9974.3	10234.0	10677.2	11046.1	10843.1	9635.9	9243.0
25°	11334.3	11255.7	11122.5	10897.7	10832.2	11046.1	11430.3	11419.4	10308.3	9886.9
27.5°	12936.6	12923.5	12611.4	12070.0	11764.4	11681.4	11864.8	11980.5	10974.1	10524.4
30°	14471.3	14506.2	14084.9	13482.4	12921.4	12596.1	12430.2	12513.1	11650.8	11212.0
32.5°	15807.3	15844.4	15386.0	14680.9	13986.7	13593.7	13244.4	13039.2	12388.7	11910.6
35°	16936.0	16973.1	16447.0	15667.6	14927.6	14571.7	14176.6	13615.6	13130.9	12685.6
37.5°	17944.5	17933.6	17228.5	16442.6	15715.6	15434.0	15226.6	14325.0	13895.0	13464.9
40°	18540.5	18586.3	17983.8	17117.1	16412.0	16206.8	16193.7	15204.8	14776.9	14360.0
42.5°	18715.1	18795.9	18359.3	17647.6	17008.0	16785.3	17128.1	16156.6	15803.0	15396.9
45°	18400.8	18479.4	18280.7	17787.3	17414.0	17270.0	17931.4	17143.3	16898.8	16497.2
47.5°	17483.9	17582.1	17630.2	17525.4	17521.0	17667.3	18651.8	18182.5	18199.9	17789.5
50°	15709.1	15875.0	16316.0	16687.1	17261.2	17981.6	19352.6	19308.9	19666.9	19313.3
52.5°	12482.6	12718.3	14237.7	15252.8	16543.0	17922.7	20123.2	21116.5	22240.7	21723.3
55°	10031.0	10031.0	11266.6	13165.9	15141.5	17534.1	20459.4	22290.9	23993.7	23871.4
57.5°	8177.6	8275.9	9063.9	10742.7	13113.5	16608.5	20666.8	23028.8	25406.1	25316.6
60°	5047.2	5258.9	6747.7	8404.7	10806.0	14960.3	20535.8	23775.4	27119.8	27191.8
62.5°	2842.3	2920.9	3584.5	6047.0	8402.5	12744.5	19533.8	24192.3	29311.6	29617.2
65°	1962.5	2001.8	2257.3	3763.5	5824.3	10146.7	17575.6	23932.6	31507.7	32125.5
67.5°	1425.5	1445.2	1604.5	2298.7	3455.7	7356.8	14506.2	22622.7	32671.2	33703.8
70°	1095.9	1109.0	1224.7	1510.7	2041.1	4540.7	10535.3	20018.4	31828.6	33062.0
72.5°	890.7	903.8	993.3	1117.7	1353.5	2685.1	6385.4	16257.0	28108.7	29440.4
75°	751.0	768.4	849.2	930.0	1061.0	1724.6	2995.1	11321.2	21138.3	22011.5
77.5°	417.0	384.2	689.8	770.6	895.0	1091.5	1401.5	6662.6	11838.6	12080.9
80°	259.8	268.5	547.9	620.0	687.7	550.1	641.8	2565.1	4104.1	3898.9
82.5°	15.3	34.9	421.3	447.5	471.5	235.8	242.3	871.0	988.9	908.1
85°	0.0	0.0	192.1	155.0	163.7	67.7	69.9	203.0	133.2	144.1
87.5°	0.0	0.0	0.0	4.4	0.0	6.5	13.1	17.5	6.5	8.7
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°
4053.9	0°	4053.9	4053.9	4053.9	4053.9	4053.9	4053.9	4053.9	4053.9	4053.9	4053.9
4261.3	2.5°	4108.5	3955.7	3645.7	3342.2	3095.5	2866.3	2702.6	2547.6	2469.0	2464.6
4536.3	5°	4232.9	3912.0	3292.0	2744.1	2303.1	1949.4	1720.2	1556.5	1473.5	1445.2
4874.7	7.5°	4407.5	3925.1	2982.0	2220.1	1700.6	1397.1	1266.2	1213.8	1196.3	1176.7
5256.7	10°	4628.0	3955.7	2704.8	1787.9	1340.4	1187.6	1135.2	1113.3	1100.2	1087.1
5686.8	12.5°	4874.7	3984.0	2429.7	1484.5	1178.8	1100.2	1063.1	1036.9	1019.5	1004.2
6127.8	15°	5114.8	4001.5	2143.7	1272.7	1095.9	1032.6	993.3	964.9	940.9	923.4
6560.0	17.5°	5352.8	4025.5	1875.2	1146.1	1028.2	964.9	925.6	890.7	871.0	851.4
7014.1	20°	5616.9	4021.1	1622.0	1056.6	960.5	897.2	855.7	823.0	803.4	781.5
7494.3	22.5°	5861.4	3999.3	1399.3	980.2	890.7	829.6	783.7	751.0	731.3	713.9
7985.5	25°	6143.0	3981.8	1213.8	910.3	825.2	764.1	713.9	683.3	661.5	646.2
8478.9	27.5°	6413.7	3955.7	1078.4	847.0	761.9	702.9	654.9	620.0	600.3	589.4
8987.5	30°	6680.1	3949.1	1028.2	785.9	705.1	646.2	598.2	565.4	550.1	545.8
9546.4	32.5°	7001.0	3966.6	1050.0	764.1	652.7	593.8	547.9	523.9	508.6	508.6
10168.6	35°	7343.7	3962.2	1082.8	783.7	617.8	541.4	506.5	491.2	475.9	475.9
10858.4	37.5°	7773.8	3968.8	1109.0	816.5	604.7	497.7	478.1	458.4	449.7	449.7
11613.7	40°	8415.6	4184.9	1095.9	844.8	600.3	467.2	427.9	421.3	414.8	414.8
12467.3	42.5°	9201.5	4654.2	1113.3	847.0	598.2	445.3	392.9	406.0	390.8	388.6
13430.0	45°	10061.6	5167.2	1224.7	801.2	596.0	434.4	375.5	390.8	366.7	366.7
14545.5	47.5°	10915.2	5675.9	1338.2	735.7	589.4	432.2	360.2	351.5	344.9	347.1
15999.4	50°	12091.8	6090.7	1381.9	646.2	574.1	427.9	331.8	334.0	329.6	334.0
18049.3	52.5°	13373.2	6178.0	1329.5	545.8	530.5	414.8	312.2	320.9	318.7	323.1
19492.3	55°	14172.2	6084.1	1098.1	454.1	462.8	362.4	292.5	310.0	310.0	310.0
20902.5	57.5°	14997.4	5684.6	779.3	368.9	384.2	296.9	275.1	299.1	296.9	294.7
22600.9	60°	15591.2	5038.4	513.0	303.4	305.6	244.5	255.4	281.6	279.4	268.5
24351.7	62.5°	16034.4	4324.6	329.6	257.6	233.6	220.5	233.6	255.4	246.7	222.7
25836.2	65°	15984.2	3335.7	253.2	220.5	192.1	192.1	203.0	222.7	196.5	157.2
26120.0	67.5°	15052.0	2257.3	209.6	185.6	161.5	159.4	168.1	185.6	168.1	133.2
24666.1	70°	13386.3	1475.7	168.1	144.1	128.8	117.9	135.3	159.4	141.9	107.0
20998.6	72.5°	10864.9	899.4	126.6	104.8	93.9	76.4	107.0	131.0	113.5	78.6
14602.3	75°	7029.4	458.4	87.3	67.7	50.2	45.8	78.6	98.2	78.6	48.0
6479.2	77.5°	2689.5	192.1	48.0	30.6	26.2	21.8	43.7	58.9	32.7	10.9
1255.2	80°	517.4	80.8	24.0	15.3	13.1	8.7	6.5	4.4	0.0	0.0
222.7	82.5°	89.5	26.2	8.7	4.4	0.0	0.0	0.0	0.0	0.0	0.0
43.7	85°	30.6	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.3	87.5°	10.9	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>
4053.9
2460.3
1440.8
1172.3
1082.8
999.8
921.2
849.2
779.3
711.7
644.0
589.4
543.6
508.6
475.9
449.7
414.8
386.4
366.7
347.1
334.0
323.1
310.0
294.7
268.5
218.3
152.8
128.8
102.6
74.2
41.5
8.7
0.0
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