

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: P951689

Luminaire Tested: **GALN-SB5D-735-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951689
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-SB5D-735-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3500K, 900mA 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: 43522 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G5

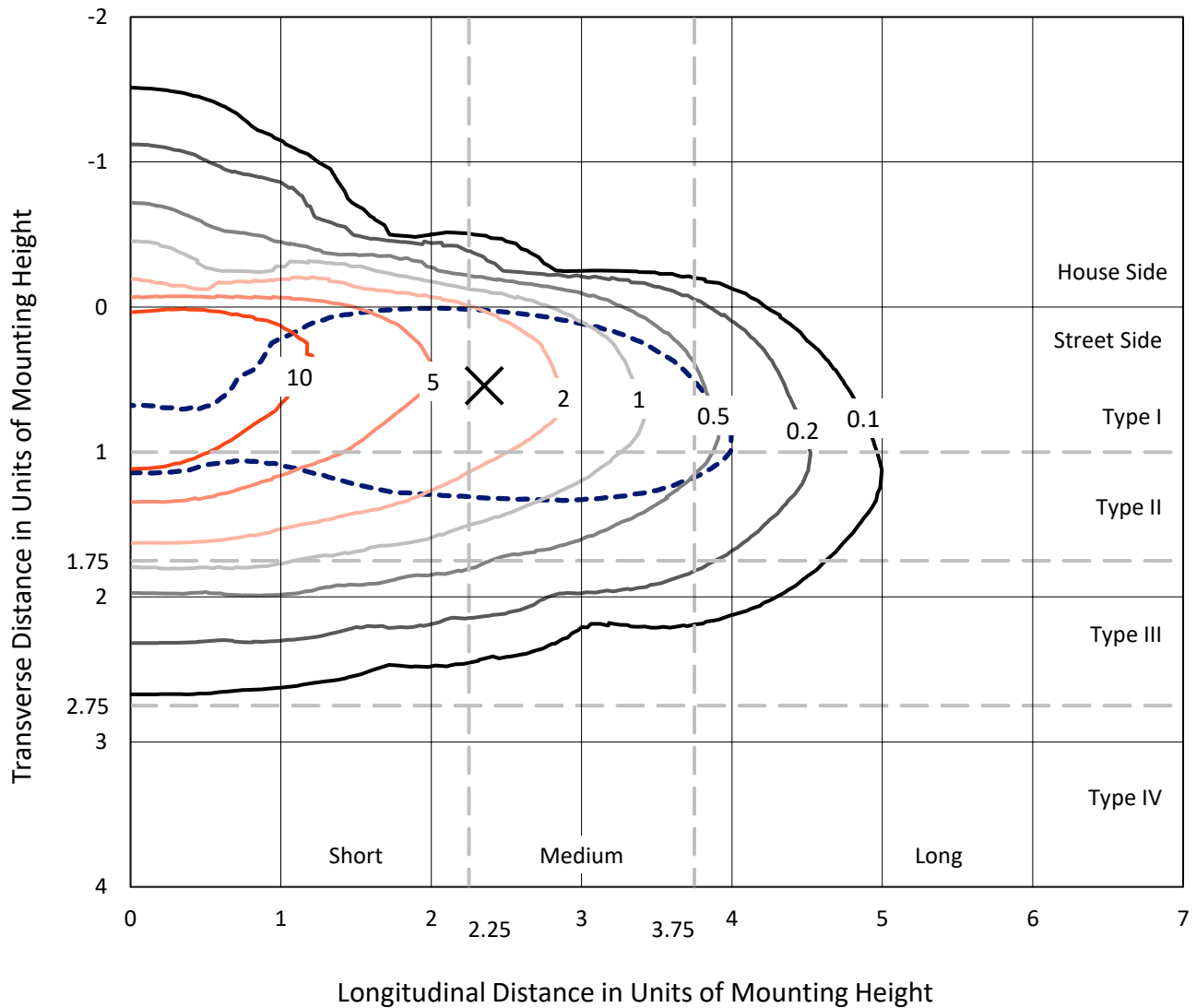
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

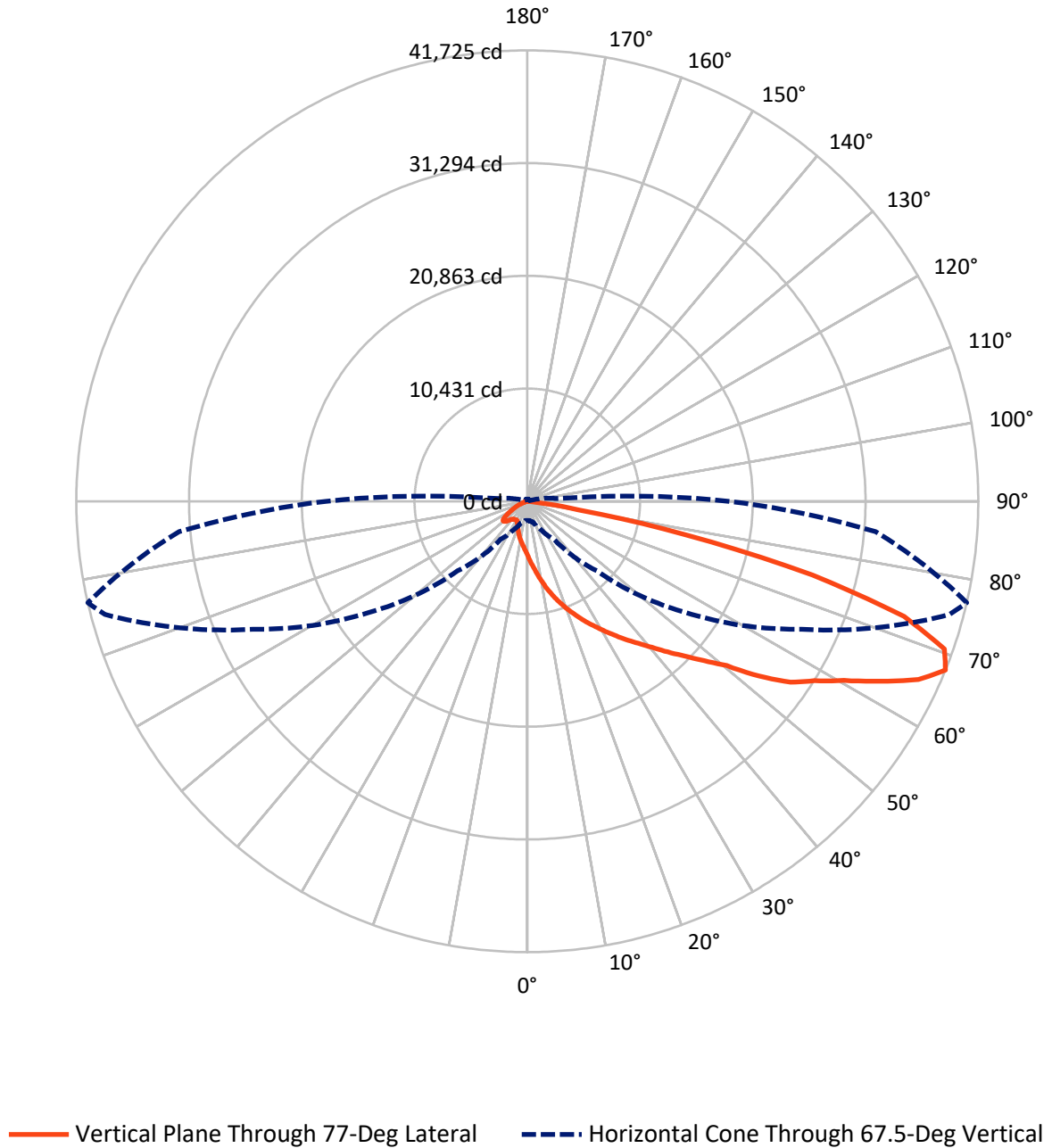
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.8 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	3201.9	0.0	3201.9
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	40320.1	0.0	40320.1
	% Fixture	92.6	0.0	92.6
Total	Lumens	43522.0	0.0	43522.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	512.2	1.2
10°-20°	1793.8	4.1
20°-30°	3461.6	8.0
30°-40°	6009.5	13.8
40°-50°	8725.4	20.0
50°-60°	10020.1	23.0
60°-70°	8699.3	20.0
70°-80°	4097.5	9.4
80°-90°	202.6	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°	43522.0	100.0
0°-180°	43522.0	100.0

Coefficient of Utilization



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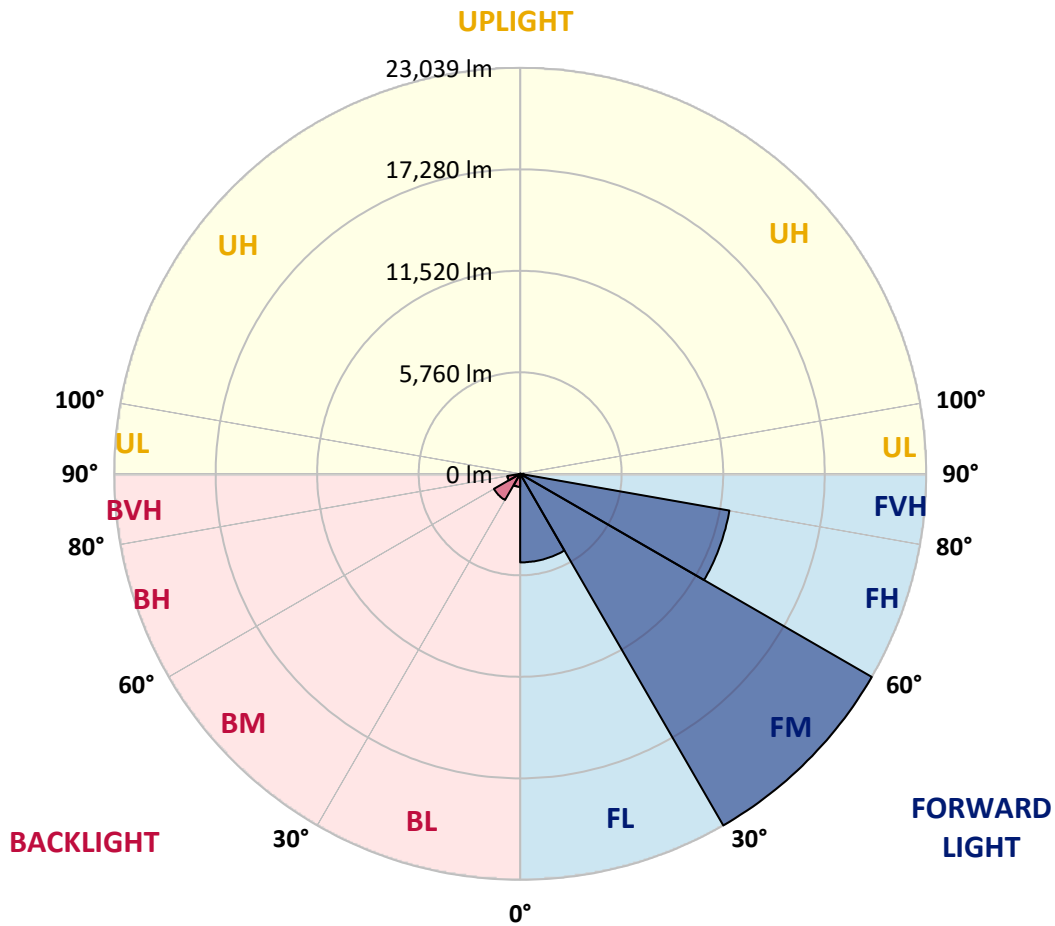
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5026.3	11.5			
FM (30°-60°)	23039.4	52.9			
FH (60°-80°)	12055.5	27.7			G5
FVH (80°-90°)	198.9	0.5			G2/225
BL (0°-30°)	741.3	1.7	B2/1000		
BM (30°-60°)	1715.6	3.9	B2/2500		
BH (60°-80°)	741.3	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-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	5018.7	5018.7	5018.7	5018.7	5018.7	5018.7	5018.7	5018.7	5018.7	5018.7
2.5°	6948.4	6991.6	6929.5	6810.5	6632.2	6516.0	6232.2	5964.6	5667.4	5572.8
5°	8469.9	8507.8	8437.5	8307.8	8070.0	7842.9	7470.0	6910.5	6329.5	6143.0
7.5°	9596.9	9618.5	9591.5	9472.6	9245.6	8988.8	8572.6	7910.5	7048.4	6843.0
10°	10407.7	10478.0	10469.9	10423.9	10272.6	10064.5	9621.3	8867.2	7853.8	7588.9
12.5°	10945.5	11023.9	11069.8	11172.5	11164.4	11032.0	10642.8	9845.6	8656.4	8345.6
15°	11102.3	11186.1	11361.7	11599.6	11810.4	11877.9	11605.0	10805.0	9540.2	9142.9
17.5°	11013.1	11142.8	11353.6	11729.3	12191.4	12496.8	12467.1	11732.0	10342.8	9888.8
20°	11210.4	11334.7	11499.6	11815.8	12353.6	12907.6	13129.2	12618.4	11140.1	10664.5
22.5°	12302.2	12280.6	12296.8	12348.2	12669.8	13218.4	13675.2	13423.8	11929.3	11442.8
25°	14031.9	13934.6	13769.7	13491.4	13410.3	13675.2	14150.8	14137.3	12761.7	12240.1
27.5°	16015.6	15999.4	15612.9	14942.7	14564.3	14461.6	14688.6	14831.9	13586.0	13029.2
30°	17915.5	17958.8	17437.2	16691.3	15996.7	15594.0	15388.6	15491.3	14423.8	13880.5
32.5°	19569.5	19615.5	19047.9	18175.0	17315.6	16829.1	16396.7	16142.6	15337.2	14745.4
35°	20966.8	21012.7	20361.4	19396.6	18480.4	18039.8	17550.7	16856.1	16256.1	15704.8
37.5°	22215.4	22201.9	21328.9	20356.0	19456.0	19107.4	18850.6	17734.5	17202.0	16669.6
40°	22953.2	23009.9	22264.0	21191.1	20318.1	20064.1	20047.9	18823.6	18293.9	17777.7
42.5°	23169.4	23269.4	22728.9	21847.8	21055.9	20780.3	21204.6	20001.9	19564.1	19061.4
45°	22780.2	22877.5	22631.6	22020.8	21558.6	21380.3	22199.1	21223.5	20920.8	20423.5
47.5°	21645.1	21766.7	21826.2	21696.5	21691.1	21872.1	23091.0	22509.9	22531.6	22023.5
50°	19447.9	19653.3	20199.2	20658.7	21369.5	22261.3	23958.5	23904.5	24347.7	23909.9
52.5°	15453.5	15745.3	17626.4	18883.1	20480.3	22188.3	24912.6	26142.2	27534.1	26893.6
55°	12418.4	12418.4	13948.1	16299.4	18745.2	21707.3	25328.8	27596.2	29704.3	29552.9
57.5°	10123.9	10245.6	11221.2	13299.5	16234.5	20561.4	25585.5	28509.7	31452.8	31342.0
60°	6248.4	6510.6	8353.7	10405.0	13377.9	18520.9	25423.3	29434.0	33574.4	33663.6
62.5°	3518.8	3616.1	4437.7	7486.2	10402.3	15777.8	24182.9	29950.2	36287.8	36666.2
65°	2429.6	2478.3	2794.5	4659.3	7210.5	12561.7	21758.6	29628.6	39006.6	39771.4
67.5°	1764.8	1789.1	1986.4	2845.8	4278.2	9107.8	17958.8	28007.0	40447.1	41725.4
70°	1356.7	1372.9	1516.2	1870.2	2526.9	5621.4	13042.7	24782.8	39403.9	40930.9
72.5°	1102.7	1118.9	1229.7	1383.7	1675.6	3324.2	7905.1	20126.3	34798.7	36447.3
75°	929.7	951.3	1051.3	1151.3	1313.5	2135.1	3708.0	14015.7	26169.3	27250.3
77.5°	516.2	475.7	854.0	954.0	1108.1	1351.3	1735.1	8248.3	14656.2	14956.2
80°	321.6	332.4	678.4	767.5	851.3	681.1	794.6	3175.6	5080.9	4826.8
82.5°	18.9	43.2	521.6	554.0	583.8	291.9	300.0	1078.3	1224.3	1124.3
85°	0.0	0.0	237.8	191.9	202.7	83.8	86.5	251.3	164.9	178.4
87.5°	0.0	0.0	0.0	5.4	0.0	8.1	16.2	21.6	8.1	10.8
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°
5018.7	0°	5018.7	5018.7	5018.7	5018.7	5018.7	5018.7	5018.7	5018.7	5018.7	5018.7
5275.5	2.5°	5086.3	4897.1	4513.3	4137.7	3832.3	3548.5	3345.8	3153.9	3056.6	3051.2
5616.0	5°	5240.3	4843.1	4075.5	3397.2	2851.2	2413.4	2129.6	1927.0	1824.3	1789.1
6034.9	7.5°	5456.5	4859.3	3691.8	2748.5	2105.3	1729.7	1567.5	1502.6	1481.0	1456.7
6507.9	10°	5729.5	4897.1	3348.5	2213.4	1659.4	1470.2	1405.4	1378.3	1362.1	1345.9
7040.3	12.5°	6034.9	4932.2	3008.0	1837.8	1459.4	1362.1	1316.2	1283.7	1262.1	1243.2
7586.2	15°	6332.2	4953.9	2654.0	1575.6	1356.7	1278.3	1229.7	1194.5	1164.8	1143.2
8121.3	17.5°	6626.8	4983.6	2321.5	1418.9	1272.9	1194.5	1145.9	1102.7	1078.3	1054.0
8683.5	20°	6953.8	4978.2	2008.0	1308.1	1189.1	1110.8	1059.4	1018.9	994.6	967.5
9278.0	22.5°	7256.5	4951.2	1732.4	1213.5	1102.7	1027.0	970.2	929.7	905.4	883.7
9886.1	25°	7605.1	4929.5	1502.6	1127.0	1021.6	945.9	883.7	845.9	818.9	800.0
10496.9	27.5°	7940.2	4897.1	1335.1	1048.6	943.2	870.2	810.8	767.5	743.2	729.7
11126.6	30°	8270.0	4889.0	1272.9	972.9	872.9	800.0	740.5	700.0	681.1	675.6
11818.5	32.5°	8667.2	4910.6	1300.0	945.9	808.1	735.1	678.4	648.6	629.7	629.7
12588.7	35°	9091.5	4905.2	1340.5	970.2	764.8	670.2	627.0	608.1	589.2	589.2
13442.7	37.5°	9624.0	4913.3	1372.9	1010.8	748.6	616.2	591.9	567.5	556.7	556.7
14377.8	40°	10418.5	5180.9	1356.7	1045.9	743.2	578.4	529.7	521.6	513.5	513.5
15434.5	42.5°	11391.5	5761.9	1378.3	1048.6	740.5	551.3	486.5	502.7	483.8	481.1
16626.4	45°	12456.3	6397.1	1516.2	991.9	737.8	537.8	464.8	483.8	454.0	454.0
18007.4	47.5°	13513.0	7026.8	1656.7	910.8	729.7	535.1	445.9	435.1	427.0	429.7
19807.3	50°	14969.7	7540.3	1710.7	800.0	710.8	529.7	410.8	413.5	408.1	413.5
22345.1	52.5°	16556.1	7648.4	1645.9	675.6	656.7	513.5	386.5	397.3	394.6	400.0
24131.5	55°	17545.3	7532.1	1359.4	562.1	573.0	448.6	362.1	383.8	383.8	383.8
25877.4	57.5°	18566.9	7037.6	964.8	456.7	475.7	367.6	340.5	370.3	367.6	364.9
27980.0	60°	19302.0	6237.6	635.1	375.7	378.4	302.7	316.2	348.6	345.9	332.4
30147.5	62.5°	19850.6	5353.8	408.1	318.9	289.2	273.0	289.2	316.2	305.4	275.7
31985.3	65°	19788.4	4129.6	313.5	273.0	237.8	237.8	251.3	275.7	243.2	194.6
32336.6	67.5°	18634.4	2794.5	259.4	229.7	200.0	197.3	208.1	229.7	208.1	164.9
30536.7	70°	16572.3	1827.0	208.1	178.4	159.5	145.9	167.6	197.3	175.7	132.4
25996.3	72.5°	13450.8	1113.5	156.8	129.7	116.2	94.6	132.4	162.2	140.5	97.3
18077.7	75°	8702.4	567.5	108.1	83.8	62.2	56.8	97.3	121.6	97.3	59.5
8021.3	77.5°	3329.6	237.8	59.5	37.8	32.4	27.0	54.1	73.0	40.5	13.5
1554.0	80°	640.5	100.0	29.7	18.9	16.2	10.8	8.1	5.4	0.0	0.0
275.7	82.5°	110.8	32.4	10.8	5.4	0.0	0.0	0.0	0.0	0.0	0.0
54.1	85°	37.8	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18.9	87.5°	13.5	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>
5018.7
3045.8
1783.7
1451.3
1340.5
1237.8
1140.5
1051.3
964.8
881.0
797.3
729.7
672.9
629.7
589.2
556.7
513.5
478.4
454.0
429.7
413.5
400.0
383.8
364.9
332.4
270.3
189.2
159.5
127.0
91.9
51.3
10.8
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