

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: P950282

Luminaire Tested: **GALN-SB4D-740-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950282
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-SB4D-740-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 4000K, 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: 36532 lumens
Efficiency: N/A
Efficacy: 124.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

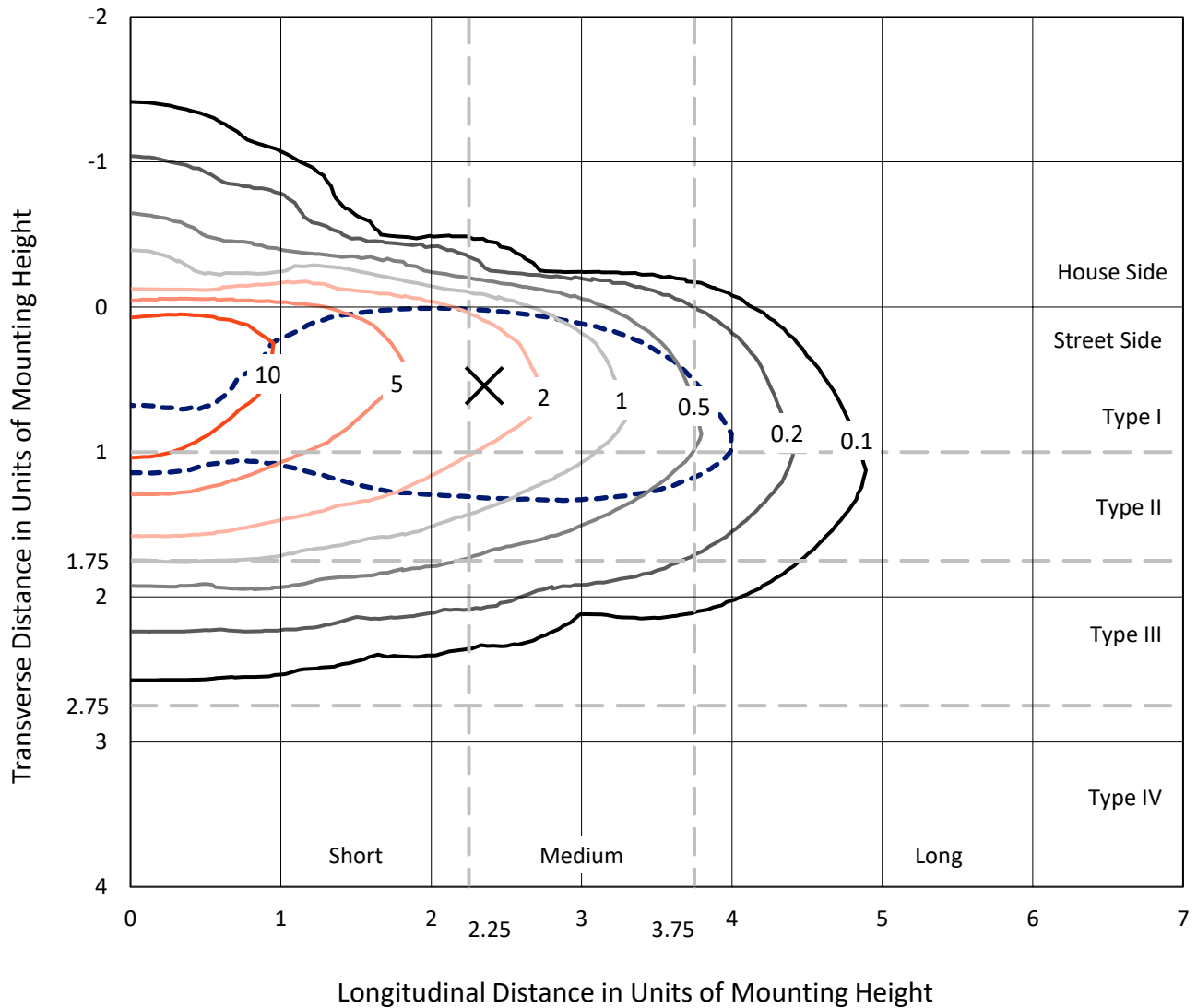
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

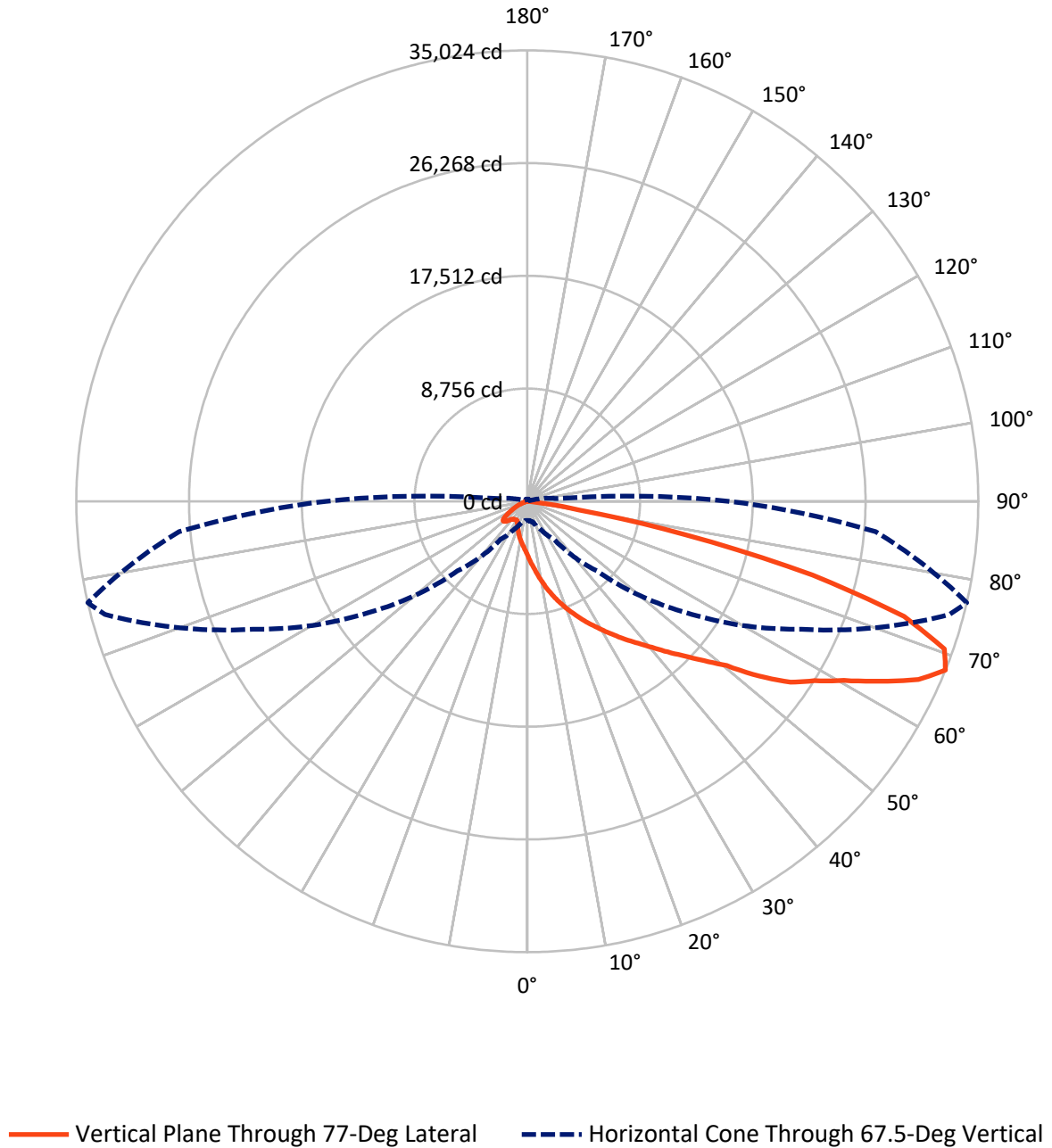
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.8 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	2687.7	0.0	2687.7
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	33844.3	0.0	33844.3
	% Fixture	92.6	0.0	92.6
Total	Lumens	36532.0	0.0	36532.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	430.0	1.2
10°-20°	1505.7	4.1
20°-30°	2905.6	8.0
30°-40°	5044.3	13.8
40°-50°	7324.1	20.0
50°-60°	8410.8	23.0
60°-70°	7302.1	20.0
70°-80°	3439.4	9.4
80°-90°	170.1	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°	36532.0	100.0
0°-180°	36532.0	100.0

Coefficient of Utilization



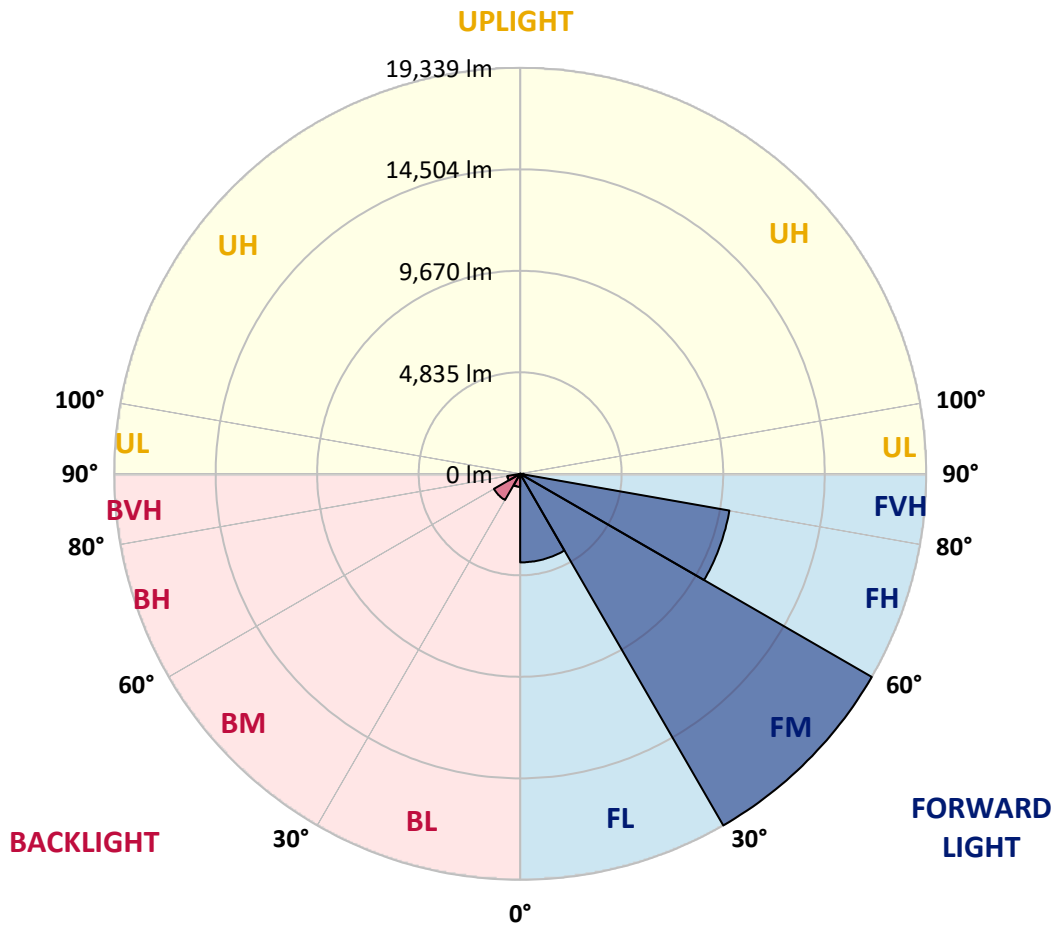
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4219.1	11.5			
FM (30°-60°)	19339.1	52.9			
FH (60°-80°)	10119.3	27.7			G4/12000
FVH (80°-90°)	167.0	0.5			G2/225
BL (0°-30°)	622.2	1.7	B2/1000		
BM (30°-60°)	1440.1	3.9	B2/2500		
BH (60°-80°)	622.2	1.7	B2/1000		G2/1000
BVH (80°-90°)	3.1	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°	4212.7	4212.7	4212.7	4212.7	4212.7	4212.7	4212.7	4212.7	4212.7	4212.7
2.5°	5832.4	5868.7	5816.5	5716.7	5567.0	5469.4	5231.3	5006.7	4757.1	4677.7
5°	7109.6	7141.4	7082.4	6973.5	6773.9	6583.3	6270.2	5800.7	5312.9	5156.4
7.5°	8055.6	8073.7	8051.0	7951.2	7760.7	7545.2	7195.8	6640.0	5916.3	5743.9
10°	8736.1	8795.1	8788.3	8749.8	8622.7	8448.0	8076.0	7443.1	6592.4	6370.1
12.5°	9187.6	9253.4	9291.9	9378.1	9371.3	9260.2	8933.5	8264.3	7266.1	7005.2
15°	9319.2	9389.5	9536.9	9736.6	9913.5	9970.2	9741.1	9069.6	8007.9	7674.5
17.5°	9244.3	9353.2	9530.1	9845.5	10233.4	10489.7	10464.8	9847.7	8681.7	8300.6
20°	9409.9	9514.3	9652.6	9918.1	10369.5	10834.5	11020.6	10591.8	9350.9	8951.7
22.5°	10326.4	10308.2	10321.9	10365.0	10634.9	11095.4	11478.8	11267.8	10013.3	9605.0
25°	11778.3	11696.6	11558.2	11324.5	11256.5	11478.8	11878.1	11866.7	10712.0	10274.2
27.5°	13443.4	13429.7	13105.3	12542.8	12225.2	12139.0	12329.5	12449.7	11403.9	10936.6
30°	15038.1	15074.4	14636.6	14010.5	13427.5	13089.5	12917.1	13003.3	12107.2	11651.2
32.5°	16426.5	16465.1	15988.7	15255.9	14534.5	14126.2	13763.2	13550.0	12874.0	12377.1
35°	17599.3	17637.9	17091.2	16281.3	15512.3	15142.5	14731.9	14148.9	13645.3	13182.5
37.5°	18647.4	18636.0	17903.3	17086.6	16331.2	16038.6	15823.1	14886.2	14439.2	13992.3
40°	19266.7	19314.3	18688.2	17787.6	17054.9	16841.6	16828.0	15800.4	15355.7	14922.4
42.5°	19448.2	19532.1	19078.4	18338.9	17674.2	17442.8	17799.0	16789.5	16422.0	16000.0
45°	19121.5	19203.2	18996.7	18484.1	18096.1	17946.4	18633.8	17814.8	17560.8	17143.3
47.5°	18168.7	18270.8	18320.7	18211.8	18207.3	18359.3	19382.4	18894.7	18912.8	18486.3
50°	16324.4	16496.8	16955.1	17340.7	17937.3	18686.0	20110.6	20065.2	20437.3	20069.8
52.5°	12971.5	13216.5	14795.4	15850.3	17191.0	18624.7	20911.4	21943.6	23111.9	22574.2
55°	10423.9	10423.9	11707.9	13681.6	15734.6	18220.9	21260.7	23164.0	24933.5	24806.5
57.5°	8497.9	8600.0	9419.0	11163.5	13627.1	17259.0	21476.3	23930.8	26401.3	26308.2
60°	5244.9	5464.9	7012.1	8733.9	11229.3	15546.3	21340.1	24706.7	28182.1	28256.9
62.5°	2953.6	3035.3	3724.9	6283.9	8731.6	13243.7	20298.9	25139.9	30459.7	30777.3
65°	2039.4	2080.3	2345.7	3911.0	6052.5	10544.2	18264.0	24870.0	32741.8	33383.8
67.5°	1481.4	1501.8	1667.4	2388.8	3591.1	7645.0	15074.4	23508.9	33951.0	35024.0
70°	1138.8	1152.4	1272.7	1569.8	2121.1	4718.6	10948.0	20802.5	33075.3	34357.0
72.5°	925.6	939.2	1032.2	1161.5	1406.5	2790.3	6635.5	16893.8	29209.7	30593.5
75°	780.4	798.5	882.5	966.4	1102.5	1792.1	3112.4	11764.6	21966.3	22873.7
77.5°	433.3	399.3	716.9	800.8	930.1	1134.3	1456.4	6923.6	12302.3	12554.1
80°	270.0	279.0	569.4	644.3	714.6	571.7	667.0	2665.5	4264.9	4051.6
82.5°	15.9	36.3	437.8	465.1	490.0	245.0	251.8	905.1	1027.6	943.7
85°	0.0	0.0	199.6	161.1	170.1	70.3	72.6	211.0	138.4	149.7
87.5°	0.0	0.0	0.0	4.5	0.0	6.8	13.6	18.1	6.8	9.1
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°
4212.7	0°	4212.7	4212.7	4212.7	4212.7	4212.7	4212.7	4212.7	4212.7	4212.7	4212.7
4428.2	2.5°	4269.4	4110.6	3788.5	3473.1	3216.8	2978.6	2808.5	2647.4	2565.7	2561.2
4714.0	5°	4398.7	4065.2	3421.0	2851.6	2393.3	2025.8	1787.6	1617.5	1531.3	1501.8
5065.6	7.5°	4580.2	4078.8	3098.8	2307.1	1767.2	1451.9	1315.8	1261.3	1243.2	1222.7
5462.6	10°	4809.3	4110.6	2810.7	1857.9	1392.9	1234.1	1179.6	1157.0	1143.3	1129.7
5909.5	12.5°	5065.6	4140.1	2524.9	1542.6	1225.0	1143.3	1104.8	1077.6	1059.4	1043.5
6367.8	15°	5315.2	4158.2	2227.7	1322.6	1138.8	1073.0	1032.2	1002.7	977.7	959.6
6817.0	17.5°	5562.5	4183.2	1948.7	1191.0	1068.5	1002.7	961.9	925.6	905.1	884.7
7288.8	20°	5837.0	4178.6	1685.5	1098.0	998.2	932.4	889.3	855.2	834.8	812.1
7787.9	22.5°	6091.0	4156.0	1454.1	1018.6	925.6	862.0	814.4	780.4	760.0	741.8
8298.3	25°	6383.7	4137.8	1261.3	946.0	857.5	794.0	741.8	710.1	687.4	671.5
8811.0	27.5°	6665.0	4110.6	1120.7	880.2	791.7	730.5	680.6	644.3	623.8	612.5
9339.6	30°	6941.7	4103.8	1068.5	816.7	732.7	671.5	621.6	587.6	571.7	567.1
9920.3	32.5°	7275.2	4121.9	1091.2	794.0	678.3	617.0	569.4	544.4	528.6	528.6
10566.9	35°	7631.4	4117.4	1125.2	814.4	642.0	562.6	526.3	510.4	494.5	494.5
11283.7	37.5°	8078.3	4124.2	1152.4	848.4	628.4	517.2	496.8	476.4	467.3	467.3
12068.6	40°	8745.2	4348.8	1138.8	877.9	623.8	485.5	444.6	437.8	431.0	431.0
12955.6	42.5°	9561.9	4836.5	1157.0	880.2	621.6	462.8	408.3	421.9	406.1	403.8
13956.1	45°	10455.7	5369.6	1272.7	832.6	619.3	451.4	390.2	406.1	381.1	381.1
15115.3	47.5°	11342.7	5898.2	1390.6	764.5	612.5	449.2	374.3	365.2	358.4	360.7
16626.1	50°	12565.4	6329.2	1436.0	671.5	596.6	444.6	344.8	347.1	342.5	347.1
18756.3	52.5°	13897.1	6420.0	1381.5	567.1	551.3	431.0	324.4	333.5	331.2	335.7
20255.8	55°	14727.4	6322.4	1141.1	471.9	480.9	376.6	304.0	322.1	322.1	322.1
21721.3	57.5°	15584.9	5907.3	809.9	383.4	399.3	308.5	285.8	310.8	308.5	306.3
23486.2	60°	16201.9	5235.8	533.1	315.3	317.6	254.1	265.4	292.6	290.4	279.0
25305.6	62.5°	16662.4	4494.0	342.5	267.7	242.7	229.1	242.7	265.4	256.3	231.4
26848.2	65°	16610.2	3466.3	263.2	229.1	199.6	199.6	211.0	231.4	204.2	163.3
27143.1	67.5°	15641.6	2345.7	217.8	192.8	167.9	165.6	174.7	192.8	174.7	138.4
25632.2	70°	13910.7	1533.5	174.7	149.7	133.8	122.5	140.6	165.6	147.5	111.2
21821.1	72.5°	11290.5	934.6	131.6	108.9	97.5	79.4	111.2	136.1	118.0	81.7
15174.3	75°	7304.7	476.4	90.7	70.3	52.2	47.6	81.7	102.1	81.7	49.9
6733.0	77.5°	2794.8	199.6	49.9	31.8	27.2	22.7	45.4	61.3	34.0	11.3
1304.4	80°	537.6	83.9	25.0	15.9	13.6	9.1	6.8	4.5	0.0	0.0
231.4	82.5°	93.0	27.2	9.1	4.5	0.0	0.0	0.0	0.0	0.0	0.0
45.4	85°	31.8	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.9	87.5°	11.3	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>
4212.7
2556.6
1497.2
1218.2
1125.2
1039.0
957.3
882.5
809.9
739.5
669.2
612.5
564.9
528.6
494.5
467.3
431.0
401.5
381.1
360.7
347.1
335.7
322.1
306.3
279.0
226.9
158.8
133.8
106.6
77.1
43.1
9.1
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