

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: P955280

Luminaire Tested: **GALN-SB8B-740-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955280
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-SB8B-740-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 4000K, 450mA 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: 40787 lumens
Efficiency: N/A
Efficacy: 139.3 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

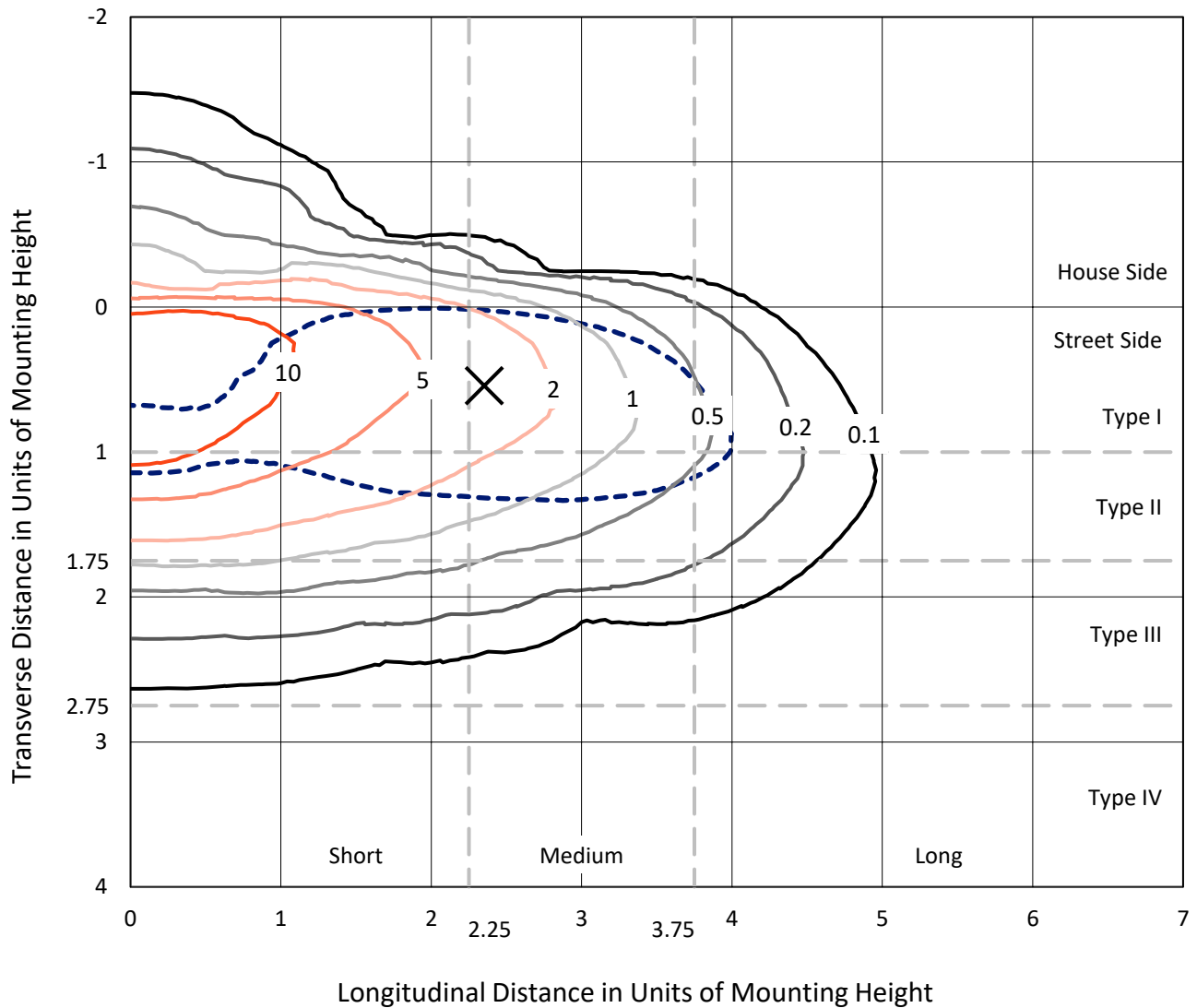
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

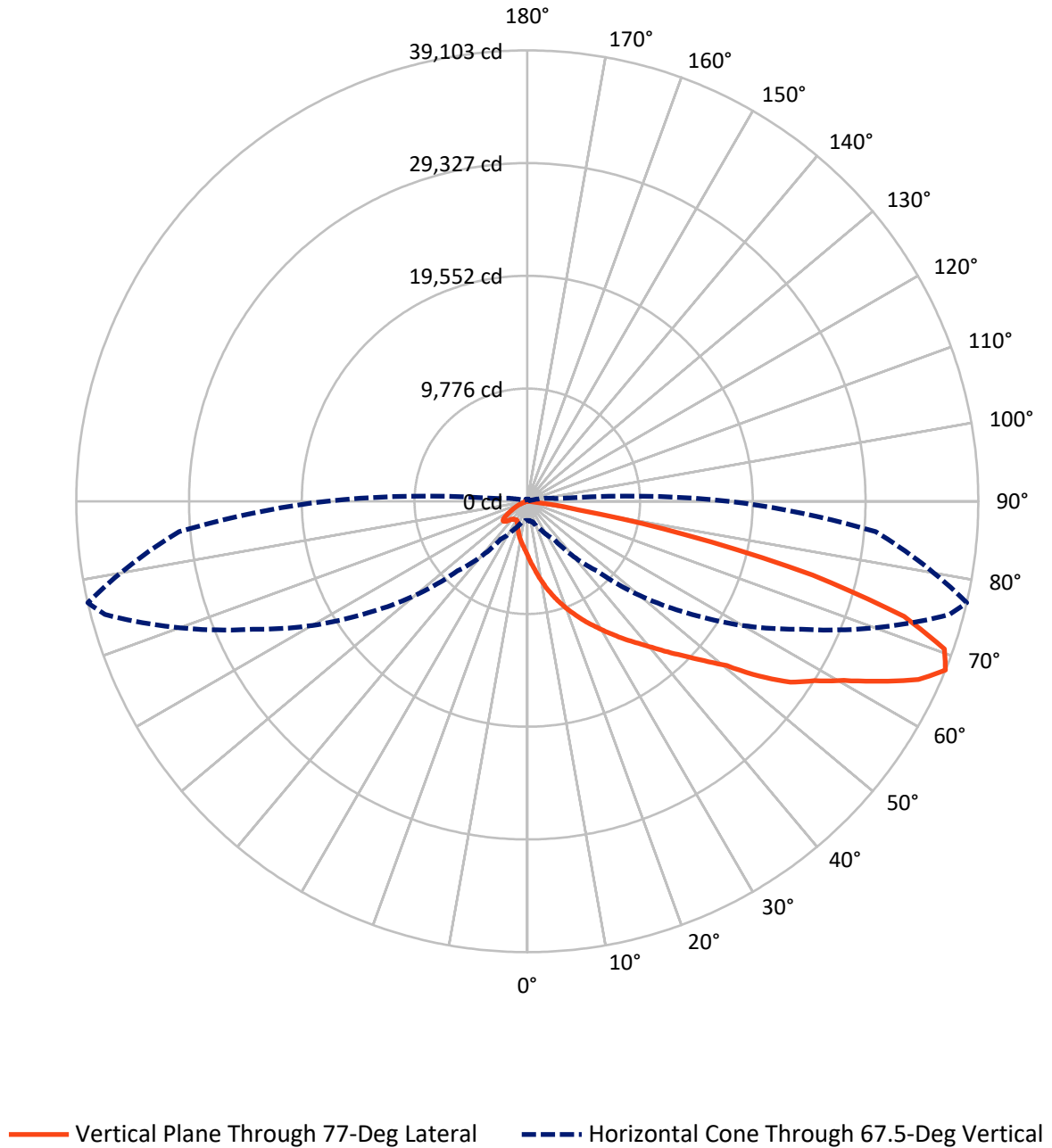
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.6 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	3000.7	0.0	3000.7
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	37786.3	0.0	37786.3
	% Fixture	92.6	0.0	92.6
Total	Lumens	40787.0	0.0	40787.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	480.0	1.2
10°-20°	1681.1	4.1
20°-30°	3244.0	8.0
30°-40°	5631.8	13.8
40°-50°	8177.1	20.0
50°-60°	9390.4	23.0
60°-70°	8152.6	20.0
70°-80°	3840.0	9.4
80°-90°	189.9	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°	40787.0	100.0
0°-180°	40787.0	100.0

Coefficient of Utilization



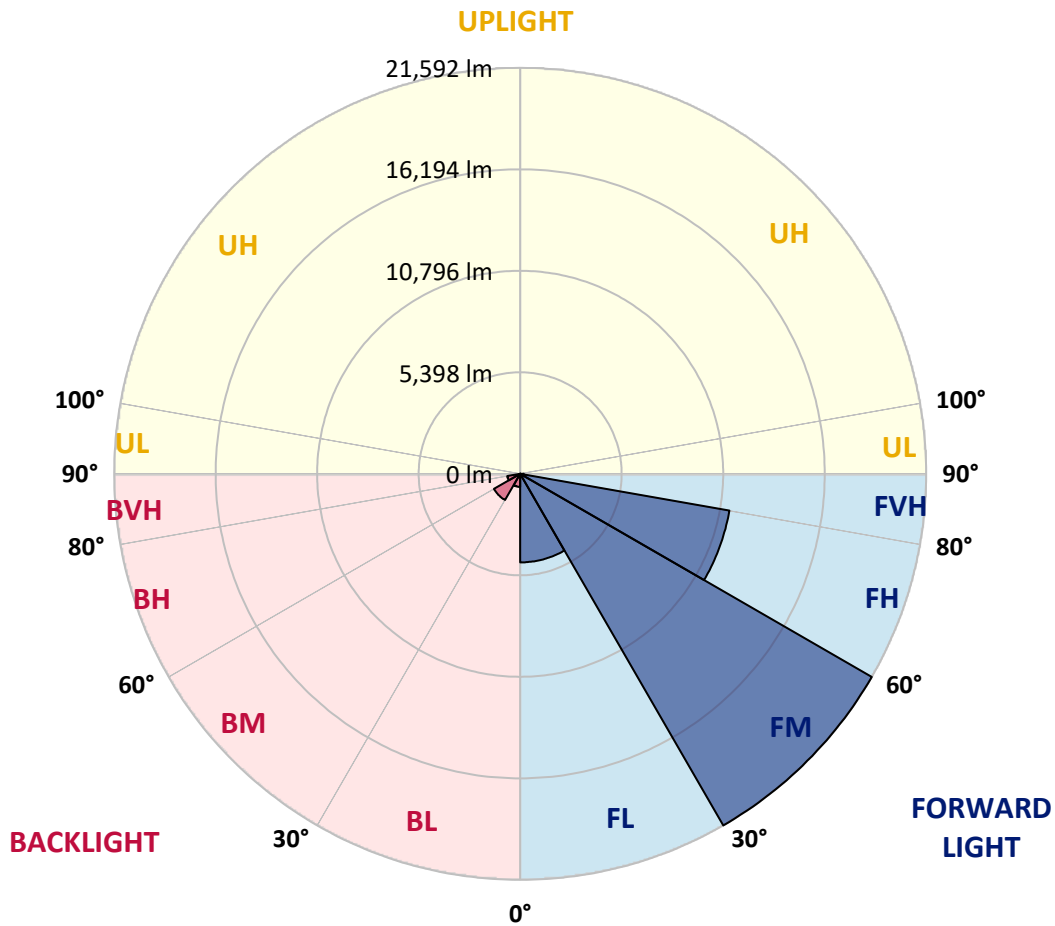
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4710.5	11.5			
FM (30°-60°)	21591.5	52.9			
FH (60°-80°)	11297.9	27.7			G4/12000
FVH (80°-90°)	186.4	0.5			G2/225
BL (0°-30°)	694.7	1.7	B2/1000		
BM (30°-60°)	1607.8	3.9	B2/2500		
BH (60°-80°)	694.7	1.7	B2/1000		G2/1000
BVH (80°-90°)	3.5	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°	4703.3	4703.3	4703.3	4703.3	4703.3	4703.3	4703.3	4703.3	4703.3	4703.3
2.5°	6511.7	6552.3	6494.0	6382.6	6215.4	6106.5	5840.6	5589.8	5311.2	5222.6
5°	7937.7	7973.1	7907.3	7785.7	7562.8	7350.1	7000.6	6476.3	5931.7	5757.0
7.5°	8993.8	9014.1	8988.8	8877.3	8664.6	8424.0	8033.9	7413.4	6605.4	6413.0
10°	9753.7	9819.5	9811.9	9768.9	9627.0	9432.0	9016.6	8310.0	7360.2	7112.0
12.5°	10257.7	10331.1	10374.2	10470.4	10462.8	10338.7	9974.0	9226.9	8112.4	7821.2
15°	10404.6	10483.1	10647.7	10870.6	11068.2	11131.5	10875.7	10126.0	8940.7	8568.3
17.5°	10321.0	10442.6	10640.1	10992.2	11425.3	11711.5	11683.6	10994.7	9692.9	9267.4
20°	10505.9	10622.4	10776.9	11073.2	11577.3	12096.5	12304.2	11825.5	10440.0	9994.3
22.5°	11529.1	11508.9	11524.1	11572.2	11873.6	12387.7	12815.8	12580.2	11179.6	10723.7
25°	13150.1	13058.9	12904.4	12643.6	12567.6	12815.8	13261.5	13248.9	11959.7	11470.9
27.5°	15009.2	14994.0	14631.8	14003.6	13649.1	13552.8	13765.6	13899.8	12732.2	12210.4
30°	16789.7	16830.2	16341.4	15642.3	14991.4	14614.0	14421.6	14517.8	13517.4	13008.3
32.5°	18339.7	18382.8	17850.9	17032.8	16227.4	15771.5	15366.3	15128.2	14373.4	13818.8
35°	19649.2	19692.2	19081.8	18177.6	17319.0	16906.2	16447.8	15796.8	15234.6	14717.9
37.5°	20819.3	20806.6	19988.6	19076.8	18233.4	17906.6	17666.0	16620.0	16121.0	15622.1
40°	21510.8	21563.9	20864.9	19859.4	19041.3	18803.2	18788.0	17640.7	17144.3	16660.5
42.5°	21713.4	21807.1	21300.5	20474.9	19732.8	19474.4	19872.1	18745.0	18334.7	17863.6
45°	21348.7	21439.8	21209.4	20637.0	20203.8	20036.7	20804.1	19889.8	19606.1	19140.1
47.5°	20284.9	20398.9	20454.6	20333.0	20328.0	20497.6	21639.9	21095.4	21115.6	20639.5
50°	18225.8	18418.3	18929.9	19360.4	20026.6	20862.4	22452.9	22402.3	22817.7	22407.4
52.5°	14482.3	14755.9	16518.7	17696.4	19193.3	20794.0	23347.0	24499.4	25803.8	25203.5
55°	11638.0	11638.0	13071.6	15275.1	17567.2	20343.2	23737.1	25862.0	27837.6	27695.8
57.5°	9487.7	9601.7	10516.0	12463.7	15214.3	19269.3	23977.7	26718.1	29476.3	29372.5
60°	5855.7	6101.4	7828.8	9751.1	12537.2	17357.0	23825.7	27584.3	31464.5	31548.1
62.5°	3297.7	3388.8	4158.8	7015.8	9748.6	14786.3	22663.2	28068.1	34007.4	34362.0
65°	2277.0	2322.5	2618.9	4366.5	6757.4	11772.3	20391.3	27766.7	36555.4	37272.1
67.5°	1653.9	1676.7	1861.6	2667.0	4009.4	8535.4	16830.2	26247.0	37905.3	39103.3
70°	1271.4	1286.6	1420.9	1752.7	2368.1	5268.1	12223.1	23225.4	36927.7	38358.7
72.5°	1033.4	1048.6	1152.4	1296.8	1570.3	3115.3	7408.3	18861.5	32611.9	34156.8
75°	871.3	891.5	985.2	1079.0	1230.9	2000.9	3475.0	13134.9	24524.7	25537.8
77.5°	483.8	445.8	800.4	894.1	1038.4	1266.4	1626.0	7730.0	13735.2	14016.3
80°	301.4	311.5	635.7	719.3	797.8	638.3	744.6	2976.0	4761.6	4523.5
82.5°	17.7	40.5	488.8	519.2	547.1	273.5	281.1	1010.6	1147.3	1053.6
85°	0.0	0.0	222.9	179.8	190.0	78.5	81.0	235.5	154.5	167.2
87.5°	0.0	0.0	0.0	5.1	0.0	7.6	15.2	20.3	7.6	10.1
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°
4703.3	0°	4703.3	4703.3	4703.3	4703.3	4703.3	4703.3	4703.3	4703.3	4703.3	4703.3
4944.0	2.5°	4766.7	4589.4	4229.7	3877.7	3591.5	3325.5	3135.6	2955.7	2864.6	2859.5
5263.1	5°	4911.0	4538.7	3819.4	3183.7	2672.1	2261.8	1995.8	1805.9	1709.6	1676.7
5655.7	7.5°	5113.6	4553.9	3459.8	2575.8	1973.0	1621.0	1469.0	1408.2	1388.0	1365.2
6098.9	10°	5369.5	4589.4	3138.1	2074.3	1555.1	1377.8	1317.0	1291.7	1276.5	1261.3
6597.8	12.5°	5655.7	4622.3	2819.0	1722.3	1367.7	1276.5	1233.5	1203.1	1182.8	1165.1
7109.5	15°	5934.3	4642.6	2487.2	1476.6	1271.4	1198.0	1152.4	1119.5	1091.6	1071.4
7611.0	17.5°	6210.3	4670.4	2175.6	1329.7	1192.9	1119.5	1073.9	1033.4	1010.6	987.8
8137.8	20°	6516.8	4665.3	1881.8	1225.9	1114.4	1041.0	992.8	954.9	932.1	906.7
8695.0	22.5°	6800.5	4640.0	1623.5	1137.2	1033.4	962.4	909.3	871.3	848.5	828.2
9264.8	25°	7127.2	4619.8	1408.2	1056.2	957.4	886.5	828.2	792.8	767.4	749.7
9837.3	27.5°	7441.3	4589.4	1251.2	982.7	883.9	815.5	759.8	719.3	696.5	683.8
10427.4	30°	7750.3	4581.8	1192.9	911.8	818.1	749.7	694.0	656.0	638.3	633.2
11075.8	32.5°	8122.6	4602.0	1218.3	886.5	757.3	688.9	635.7	607.9	590.1	590.1
11797.6	35°	8520.2	4597.0	1256.3	909.3	716.8	628.1	587.6	569.9	552.1	552.1
12598.0	37.5°	9019.2	4604.6	1286.6	947.3	701.6	577.5	554.7	531.9	521.7	521.7
13474.3	40°	9763.8	4855.3	1271.4	980.2	696.5	542.0	496.4	488.8	481.2	481.2
14464.6	42.5°	10675.6	5399.9	1291.7	982.7	694.0	516.7	455.9	471.1	453.4	450.8
15581.6	45°	11673.5	5995.0	1420.9	929.5	691.4	504.0	435.6	453.4	425.5	425.5
16875.8	47.5°	12663.8	6585.2	1552.6	853.5	683.8	501.5	417.9	407.8	400.2	402.7
18562.6	50°	14029.0	7066.4	1603.2	749.7	666.1	496.4	385.0	387.5	382.4	387.5
20940.9	52.5°	15515.7	7167.7	1542.5	633.2	615.5	481.2	362.2	372.3	369.8	374.8
22615.0	55°	16442.7	7058.8	1274.0	526.8	536.9	420.4	339.4	359.7	359.7	359.7
24251.2	57.5°	17400.1	6595.3	904.2	428.0	445.8	344.5	319.1	347.0	344.5	341.9
26221.7	60°	18089.0	5845.6	595.2	352.1	354.6	283.7	296.3	326.7	324.2	311.5
28253.0	62.5°	18603.1	5017.4	382.4	298.9	271.0	255.8	271.0	296.3	286.2	258.3
29975.2	65°	18544.9	3870.1	293.8	255.8	222.9	222.9	235.5	258.3	227.9	182.4
30304.5	67.5°	17463.4	2618.9	243.1	215.3	187.4	184.9	195.0	215.3	195.0	154.5
28617.7	70°	15530.9	1712.1	195.0	167.2	149.4	136.8	157.0	184.9	164.6	124.1
24362.6	72.5°	12605.6	1043.5	146.9	121.6	108.9	88.6	124.1	152.0	131.7	91.2
16941.7	75°	8155.5	531.9	101.3	78.5	58.3	53.2	91.2	114.0	91.2	55.7
7517.2	77.5°	3120.4	222.9	55.7	35.5	30.4	25.3	50.7	68.4	38.0	12.7
1456.3	80°	600.3	93.7	27.9	17.7	15.2	10.1	7.6	5.1	0.0	0.0
258.3	82.5°	103.8	30.4	10.1	5.1	0.0	0.0	0.0	0.0	0.0	0.0
50.7	85°	35.5	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17.7	87.5°	12.7	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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180°
4703.3
2854.4
1671.6
1360.1
1256.3
1160.0
1068.8
985.2
904.2
825.7
747.2
683.8
630.7
590.1
552.1
521.7
481.2
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402.7
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374.8
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