

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: P954652

Luminaire Tested: **GALN-SB7D-830-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954652
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7D-830-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49696 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G5

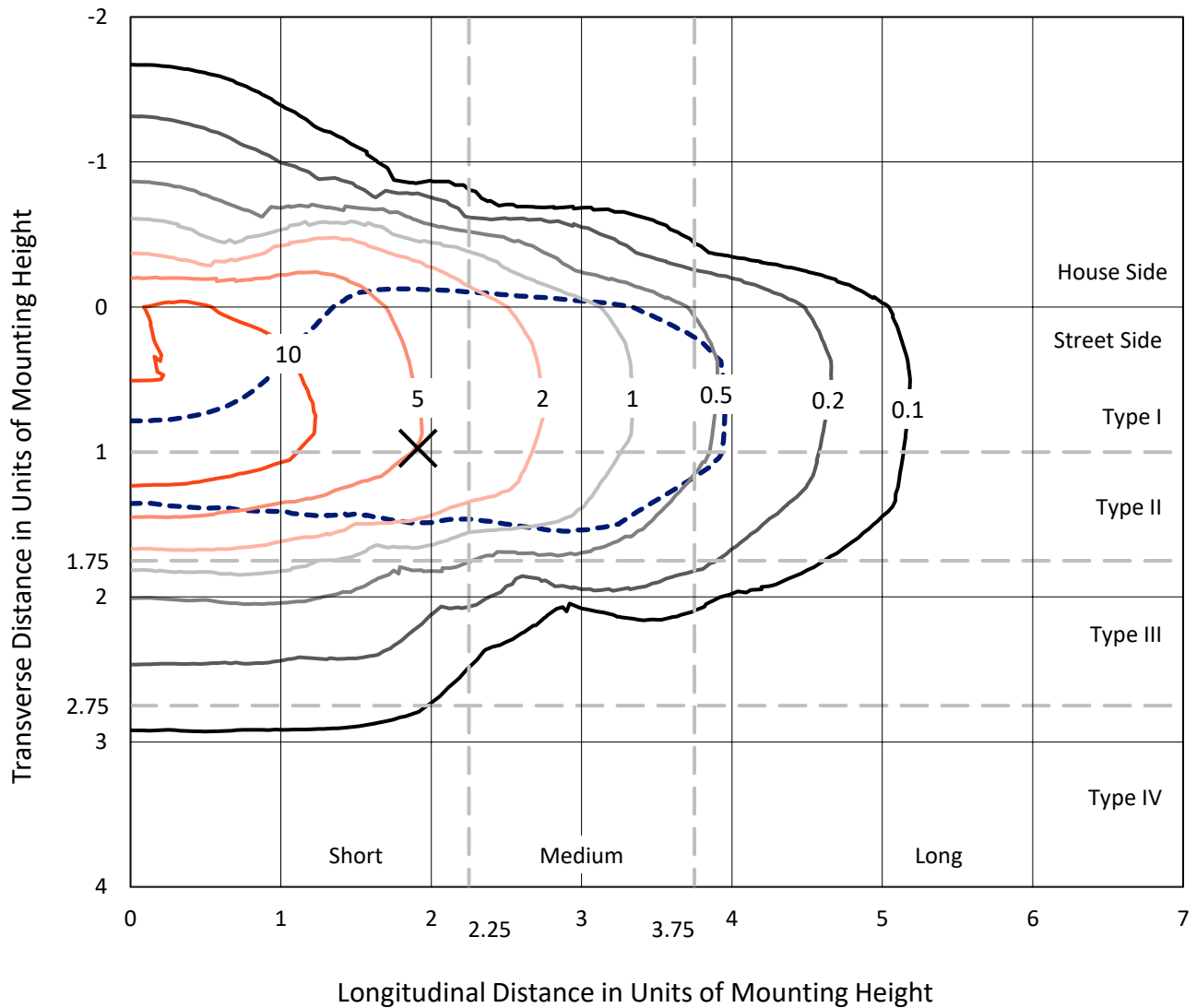
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

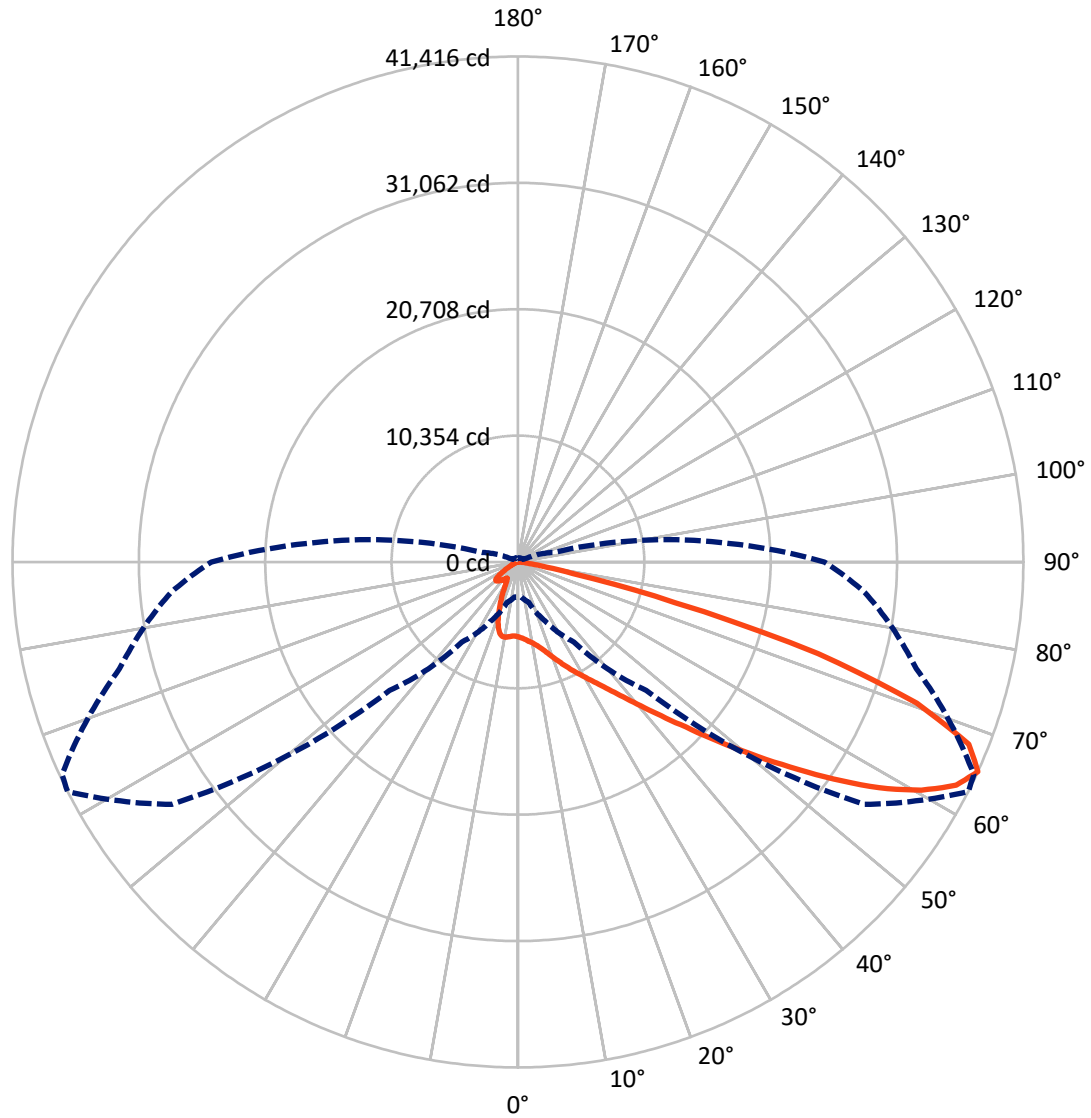
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7304.9	0.0	7304.9
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	42391.1	0.0	42391.1
	% Fixture	85.3	0.0	85.3
Total	Lumens	49696.0	0.0	49696.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	577.9	1.2
10°-20°	1603.4	3.2
20°-30°	2792.0	5.6
30°-40°	5032.2	10.1
40°-50°	9980.5	20.1
50°-60°	13595.1	27.4
60°-70°	10851.5	21.8
70°-80°	4910.5	9.9
80°-90°	353.0	0.7
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°	49696.0	100.0
0°-180°	49696.0	100.0

Coefficient of Utilization



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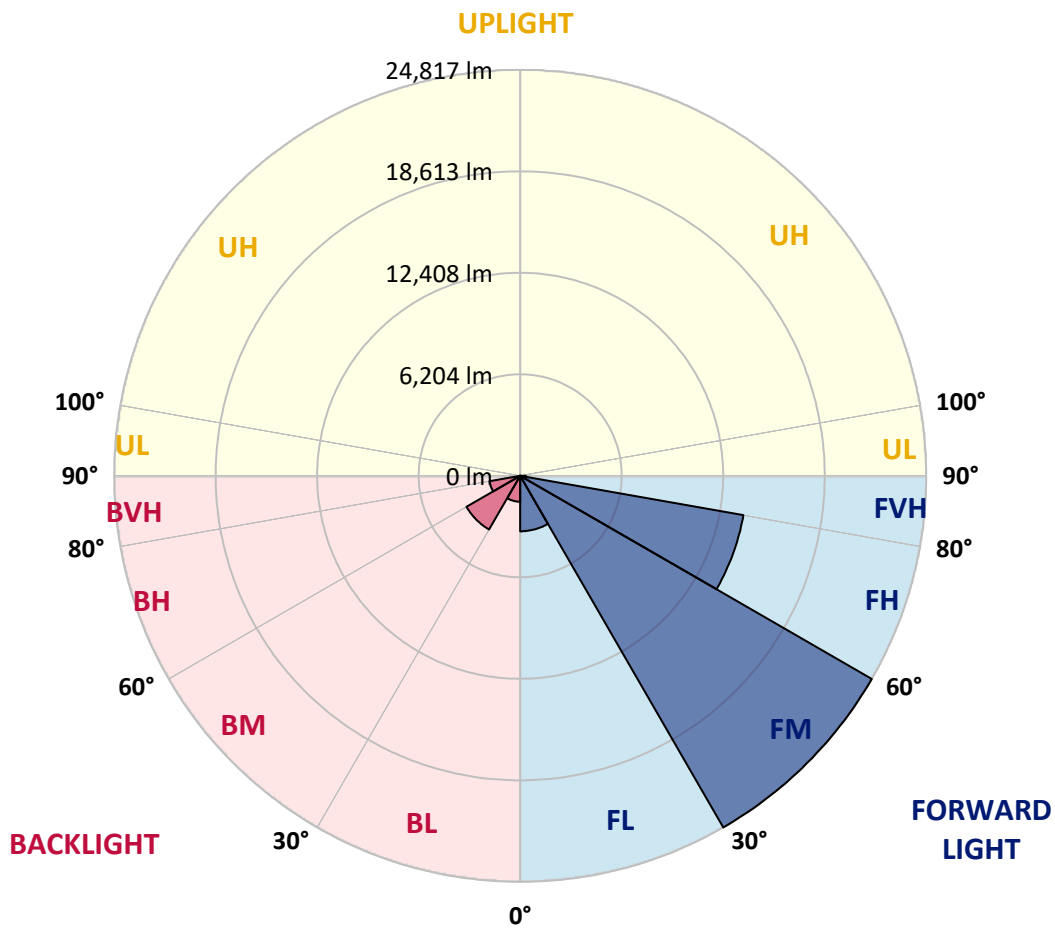
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3392.4	6.8			
FM (30°-60°)	24816.9	49.9			
FH (60°-80°)	13855.0	27.9			G5
FVH (80°-90°)	326.8	0.7			G3/500
BL (0°-30°)	1580.9	3.2	B3/2500		
BM (30°-60°)	3790.8	7.6	B3/5000		
BH (60°-80°)	1907.0	3.8	B3/2500		G3/2500
BVH (80°-90°)	26.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	6133.4	6133.4	6133.4	6133.4	6133.4	6133.4	6133.4	6133.4	6133.4	6133.4
2.5°	6277.0	6259.9	6283.9	6273.6	6266.8	6253.1	6246.2	6239.4	6225.7	6215.5
5°	6294.1	6283.9	6307.8	6328.3	6348.8	6369.3	6379.6	6393.3	6379.6	6352.2
7.5°	6150.5	6143.7	6195.0	6256.5	6348.8	6427.4	6512.9	6560.8	6564.2	6553.9
10°	6140.3	6123.2	6174.5	6249.7	6369.3	6509.5	6659.9	6762.5	6776.2	6820.6
12.5°	6300.9	6283.9	6355.7	6437.7	6560.8	6707.8	6892.4	7036.0	7056.5	7118.1
15°	6571.0	6547.1	6629.2	6735.1	6892.4	7059.9	7254.8	7384.7	7401.8	7477.0
17.5°	6885.6	6861.6	6957.4	7070.2	7241.1	7470.2	7695.8	7839.4	7859.9	7907.8
20°	7289.0	7258.2	7333.4	7436.0	7617.2	7890.7	8160.8	8365.9	8362.5	8362.5
22.5°	7757.4	7709.5	7774.5	7856.5	8027.5	8359.1	8718.1	8960.8	8960.8	8865.1
25°	8260.0	8212.1	8283.9	8359.1	8509.5	8885.6	9306.1	9607.0	9620.7	9456.6
27.5°	8889.0	8827.5	8882.2	8971.1	9060.0	9442.9	9942.0	10290.8	10297.6	10044.6
30°	10099.3	9924.9	9754.0	9658.3	9699.3	10078.8	10612.1	10998.5	11032.6	10683.9
32.5°	12314.7	12280.5	11678.8	10892.5	10482.2	10762.6	11360.9	11825.8	11846.3	11398.5
35°	15757.5	15716.5	14748.9	13251.5	11914.7	11678.8	12270.3	12820.7	12807.0	12301.0
37.5°	19867.0	19829.4	18554.1	16550.7	14386.5	13063.4	13442.9	14020.7	14106.2	13442.9
40°	23378.1	23238.0	22431.1	20499.5	17668.6	15360.9	15111.3	15494.2	15583.1	14796.8
42.5°	26038.0	25918.3	25508.1	24301.2	21641.4	18759.3	17077.2	17224.2	17323.3	16379.7
45°	27415.8	27388.4	27552.6	27439.7	25689.3	22930.3	19887.5	19275.5	19313.1	18133.6
47.5°	27610.7	27597.0	28345.7	29405.6	29169.7	27634.6	23494.4	21832.8	21699.5	20113.1
50°	26461.9	26434.6	27870.5	29856.9	31494.5	31586.8	27590.2	24714.9	24420.9	22161.0
52.5°	22793.5	22786.7	25145.7	28451.7	32311.6	35046.7	31638.1	27880.8	27388.4	24328.6
55°	17538.7	17665.2	20369.5	24277.3	30821.0	36711.7	35272.3	31395.3	30639.8	26509.8
57.5°	12424.1	12608.7	15282.3	18762.7	26198.7	35727.0	37730.5	34916.8	34103.1	28684.2
60°	6673.6	6837.7	9514.7	13668.6	19490.9	32055.2	39026.2	37973.2	37204.0	30749.2
62.5°	3976.1	4030.8	5138.5	8824.1	13183.1	24489.3	38475.8	40301.5	39669.0	32482.5
65°	2854.7	2865.0	3422.3	5388.1	8003.5	14878.9	34615.9	41416.0	41221.1	33788.5
67.5°	2403.5	2396.6	2629.1	3579.5	5453.1	7453.1	26530.3	39839.9	40667.3	34615.9
70°	2061.6	2071.8	2345.3	2622.3	4099.2	4218.9	13189.9	34687.7	36451.8	34834.7
72.5°	1535.1	1569.3	1822.2	2389.8	3094.1	2902.6	4553.9	25720.0	28909.8	32821.0
75°	1083.8	1100.9	1282.1	2010.3	2307.7	2112.9	2324.8	13295.9	17384.9	25162.8
77.5°	834.2	865.0	971.0	1405.1	2273.5	1483.8	1422.2	4601.8	7070.2	15200.2
80°	451.3	506.0	700.9	1015.4	1596.6	1049.6	704.3	1832.5	2396.6	7107.8
82.5°	232.5	259.8	488.9	731.6	909.4	916.3	348.7	762.4	988.0	2194.9
85°	92.3	112.8	328.2	403.4	468.4	451.3	157.3	307.7	355.6	608.6
87.5°	20.5	34.2	119.7	92.3	88.9	95.7	37.6	71.8	68.4	71.8
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°
6133.4	0°	6133.4	6133.4	6133.4	6133.4	6133.4	6133.4	6133.4	6133.4	6133.4	6133.4
6174.5	2.5°	6171.0	6157.4	6119.7	6078.7	6030.9	6003.5	5986.4	5983.0	5959.1	5942.0
6311.2	5°	6273.6	6259.9	6188.1	6102.7	6010.3	5938.6	5870.2	5808.6	5719.7	5702.6
6509.5	7.5°	6478.7	6441.1	6324.9	6208.6	6034.3	5825.7	5572.7	5282.1	5022.3	4943.7
6772.8	10°	6731.7	6680.4	6533.4	6328.3	5942.0	5374.4	4762.5	4194.9	3743.6	3617.1
7083.9	12.5°	7018.9	6974.5	6779.6	6400.1	5555.6	4526.6	3589.8	2885.5	2447.9	2338.5
7415.5	15°	7360.8	7295.8	7025.7	6290.7	4865.0	3439.4	2465.0	2047.9	1890.6	1870.1
7795.0	17.5°	7723.2	7617.2	7244.6	5897.5	3935.1	2444.5	1904.3	1784.6	1716.3	1695.8
8177.9	20°	8054.8	7918.1	7374.5	5302.6	2940.2	1904.3	1706.0	1627.4	1565.8	1541.9
8560.8	22.5°	8386.5	8191.6	7374.5	4492.4	2205.2	1688.9	1565.8	1494.0	1422.2	1391.5
8971.1	25°	8731.8	8471.9	7244.6	3589.8	1774.4	1548.7	1432.5	1353.9	1292.3	1254.7
9360.8	27.5°	9066.8	8707.8	6947.1	2735.1	1579.5	1425.7	1309.4	1234.2	1176.1	1148.7
9784.8	30°	9384.8	8940.3	6530.0	2075.2	1453.0	1306.0	1196.6	1131.6	1073.5	1046.2
10335.2	32.5°	9815.5	9234.3	6085.6	1702.6	1343.6	1193.2	1094.0	1032.5	981.2	960.7
11049.7	35°	10413.8	9668.5	5702.6	1671.8	1251.3	1100.9	1001.7	943.6	892.3	875.2
11972.8	37.5°	11261.7	10369.4	5500.9	1877.0	1176.1	1018.8	926.5	865.0	817.1	803.4
13145.5	40°	12307.9	11319.8	5610.3	2082.1	1124.8	947.0	858.1	796.6	755.6	738.5
14492.5	42.5°	13548.9	12492.5	6215.5	2239.3	1090.6	885.5	793.2	724.8	697.4	690.6
16020.8	45°	14974.6	13781.4	7142.0	2406.9	1035.9	827.4	728.2	676.9	656.4	653.0
17682.3	47.5°	16595.1	15196.8	8215.5	2615.4	981.2	772.7	676.9	642.7	625.7	618.8
19415.7	50°	18202.0	16622.5	9319.8	2731.7	936.8	721.4	635.9	608.6	594.9	591.5
21248.2	52.5°	19884.1	18089.2	10212.1	2622.3	899.2	680.4	601.7	581.2	567.5	564.1
22937.1	55°	21487.5	19275.5	10366.0	2225.7	823.9	639.3	564.1	553.9	536.8	536.8
24649.9	57.5°	22868.7	19870.4	9278.8	1634.2	748.7	577.8	526.5	516.2	502.6	499.2
26195.3	60°	24137.1	19699.4	7162.5	1100.9	666.7	516.2	478.6	471.8	458.1	441.0
27538.9	62.5°	24851.7	18947.3	4899.2	718.0	584.6	451.3	423.9	420.5	389.7	355.6
28533.8	65°	25121.7	17402.0	3056.5	523.1	488.9	386.3	365.8	359.0	314.5	276.9
29097.9	67.5°	24885.8	14858.3	1541.9	413.7	386.3	321.4	300.9	300.9	270.1	235.9
29063.7	70°	23942.2	11138.6	649.6	331.6	297.4	246.2	246.2	259.8	229.1	191.5
27556.0	72.5°	21894.3	7494.1	345.3	253.0	222.2	174.4	201.7	212.0	181.2	143.6
22554.2	75°	17405.4	4571.0	239.3	188.0	140.2	123.1	153.8	160.7	123.1	95.7
15463.5	77.5°	11904.5	2625.7	160.7	119.7	88.9	71.8	106.0	99.1	65.0	44.4
5962.5	80°	5227.4	1094.0	92.3	54.7	34.2	27.4	37.6	27.4	20.5	13.7
817.1	82.5°	612.0	256.4	34.2	20.5	13.7	6.8	3.4	0.0	0.0	0.0
249.6	85°	126.5	30.8	17.1	6.8	3.4	0.0	0.0	0.0	0.0	0.0
44.4	87.5°	23.9	6.8	3.4	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°
6133.4
5959.1
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1241.0
1148.7
1049.6
960.7
875.2
800.0
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