

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: P953140

Luminaire Tested: **GALN-SB6D-740-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953140
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-SB6D-740-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 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: 49894 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G5

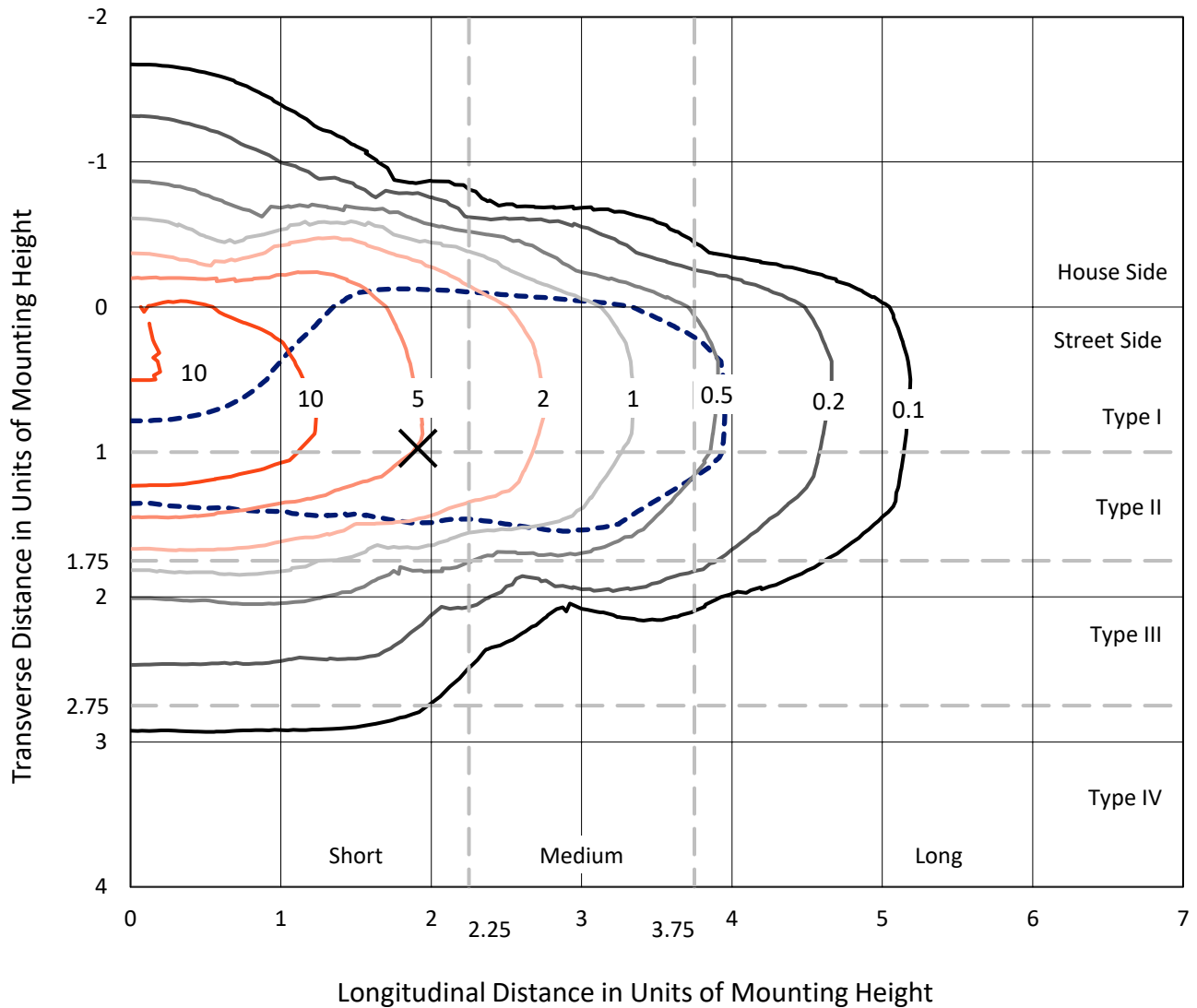
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

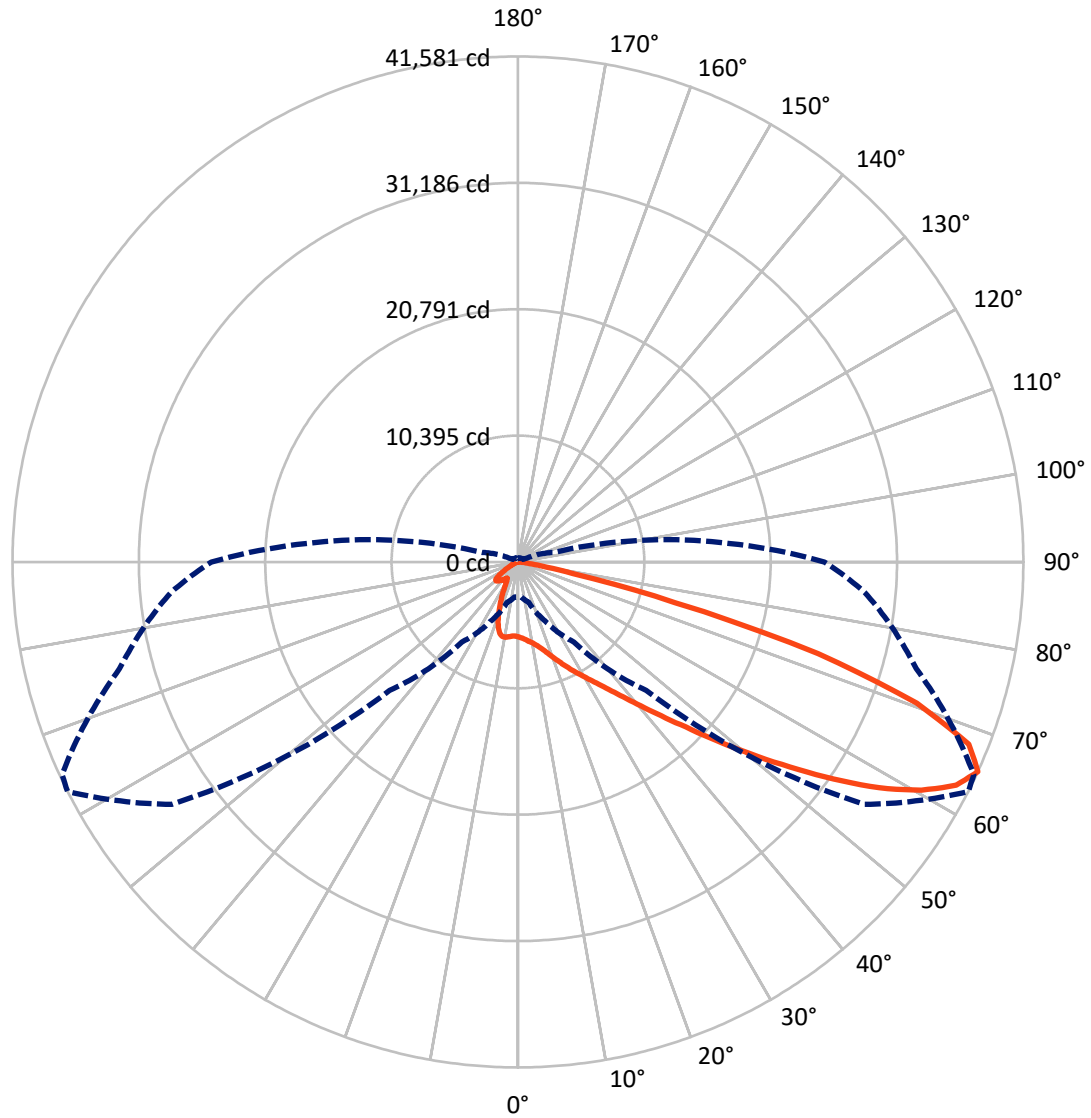
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.9 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	7334.0	0.0	7334.0
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	42560.0	0.0	42560.0
	% Fixture	85.3	0.0	85.3
Total	Lumens	49894.0	0.0	49894.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	580.2	1.2
10°-20°	1609.8	3.2
20°-30°	2803.1	5.6
30°-40°	5052.3	10.1
40°-50°	10020.2	20.1
50°-60°	13649.2	27.4
60°-70°	10894.7	21.8
70°-80°	4930.1	9.9
80°-90°	354.4	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°	49894.0	100.0
0°-180°	49894.0	100.0

Coefficient of Utilization



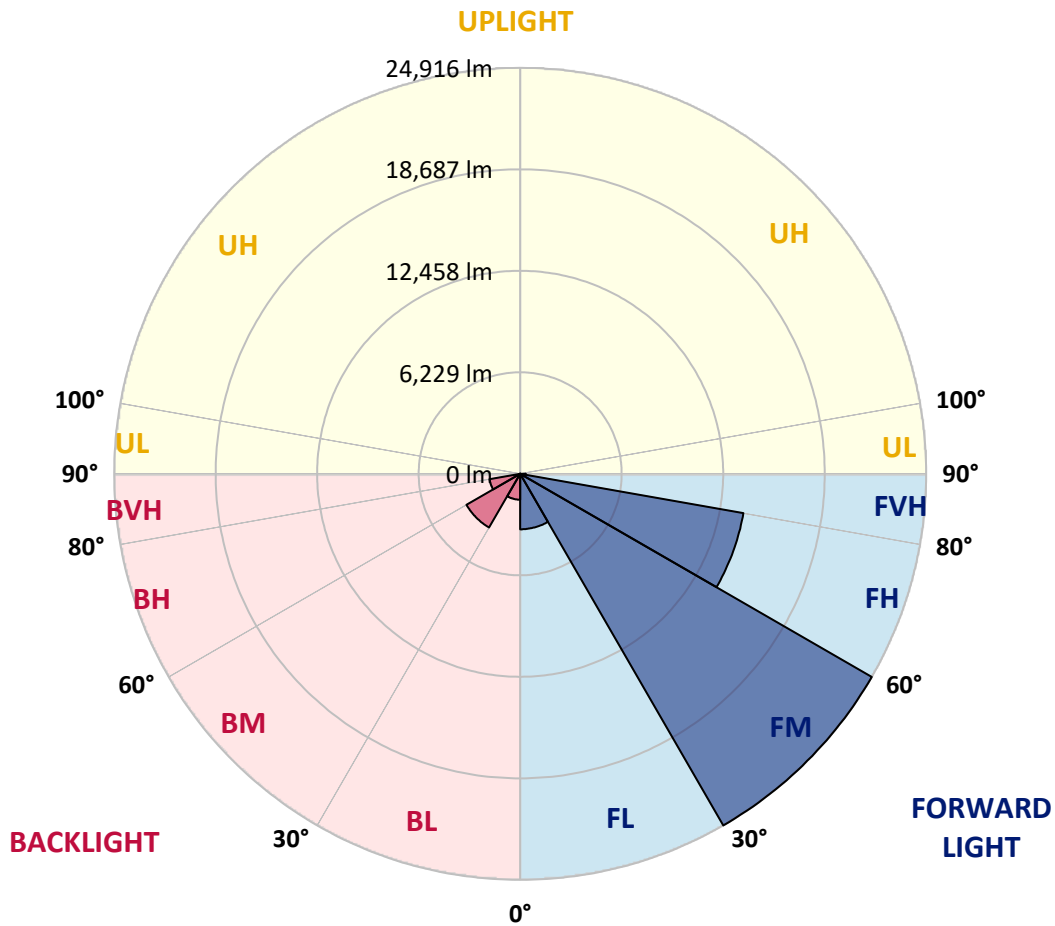
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3405.9	6.8			
FM (30°-60°)	24915.8	49.9			
FH (60°-80°)	13910.2	27.9			G5
FVH (80°-90°)	328.1	0.7			G3/500
BL (0°-30°)	1587.2	3.2	B3/2500		
BM (30°-60°)	3805.9	7.6	B3/5000		
BH (60°-80°)	1914.6	3.8	B3/2500		G3/2500
BVH (80°-90°)	26.3	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°	6157.9	6157.9	6157.9	6157.9	6157.9	6157.9	6157.9	6157.9	6157.9	6157.9
2.5°	6302.0	6284.9	6308.9	6298.6	6291.7	6278.0	6271.1	6264.3	6250.5	6240.2
5°	6319.2	6308.9	6332.9	6353.5	6374.1	6394.7	6405.0	6418.7	6405.0	6377.5
7.5°	6175.0	6168.2	6219.6	6281.4	6374.1	6453.1	6538.9	6586.9	6590.4	6580.1
10°	6164.7	6147.6	6199.1	6274.6	6394.7	6535.4	6686.5	6789.4	6803.2	6847.8
12.5°	6326.1	6308.9	6381.0	6463.4	6586.9	6734.5	6919.9	7064.0	7084.6	7146.4
15°	6597.2	6573.2	6655.6	6762.0	6919.9	7088.1	7283.7	7414.1	7431.3	7506.8
17.5°	6913.0	6889.0	6985.1	7098.4	7270.0	7500.0	7726.5	7870.7	7891.3	7939.3
20°	7318.0	7287.1	7362.7	7465.6	7647.6	7922.2	8193.3	8399.3	8395.8	8395.8
22.5°	7788.3	7740.2	7805.5	7887.8	8059.5	8392.4	8752.8	8996.5	8996.5	8900.4
25°	8292.9	8244.8	8316.9	8392.4	8543.4	8921.0	9343.2	9645.3	9659.0	9494.2
27.5°	8924.4	8862.7	8917.6	9006.8	9096.1	9480.5	9981.6	10331.8	10338.6	10084.6
30°	10139.5	9964.5	9792.9	9696.7	9737.9	10118.9	10654.4	11042.3	11076.6	10726.5
32.5°	12363.8	12329.5	11725.3	10935.9	10524.0	10805.4	11406.1	11872.9	11893.5	11443.9
35°	15820.3	15779.1	14807.7	13304.3	11962.2	11725.3	12319.2	12871.8	12858.1	12350.0
37.5°	19946.1	19908.4	18628.0	16616.6	14443.9	13115.5	13496.5	14076.6	14162.4	13496.5
40°	23471.3	23330.5	22520.5	20581.1	17739.0	15422.1	15171.5	15556.0	15645.2	14855.8
42.5°	26141.7	26021.6	25609.7	24398.0	21727.6	18834.0	17145.2	17292.8	17392.4	16445.0
45°	27525.0	27497.6	27662.3	27549.1	25791.6	23021.6	19966.7	19352.3	19390.1	18205.9
47.5°	27720.7	27706.9	28458.7	29522.7	29285.9	27744.7	23588.0	21919.8	21785.9	20193.3
50°	26567.4	26539.9	27981.5	29975.8	31620.0	31712.6	27700.1	24813.4	24518.2	22249.3
52.5°	22884.3	22877.5	25245.9	28565.1	32440.3	35186.3	31764.1	27991.8	27497.6	24425.5
55°	17608.6	17735.6	20450.7	24374.0	30943.8	36857.9	35412.9	31520.4	30761.9	26615.4
57.5°	12473.6	12659.0	15343.2	18837.4	26303.1	35869.4	37880.8	35055.9	34239.0	28798.5
60°	6700.2	6865.0	9552.6	13723.0	19568.5	32182.9	39181.7	38124.5	37352.2	30871.7
62.5°	3992.0	4046.9	5159.0	8859.2	13235.6	24586.8	38629.1	40462.0	39827.0	32612.0
65°	2866.1	2876.4	3435.9	5409.6	8035.4	14938.1	34753.8	41581.0	41385.4	33923.2
67.5°	2413.0	2406.2	2639.6	3593.8	5474.8	7482.8	26636.0	39998.6	40829.3	34753.8
70°	2069.8	2080.1	2354.7	2632.7	4115.5	4235.7	13242.5	34825.9	36597.1	34973.5
72.5°	1541.2	1575.5	1829.5	2399.3	3106.4	2914.2	4572.1	25822.5	29025.0	32951.8
75°	1088.1	1105.3	1287.2	2018.3	2316.9	2121.3	2334.1	13348.9	17454.1	25263.0
77.5°	837.5	868.4	974.8	1410.7	2282.6	1489.7	1427.9	4620.1	7098.4	15260.8
80°	453.1	508.0	703.7	1019.4	1603.0	1053.8	707.1	1839.8	2406.2	7136.1
82.5°	233.4	260.9	490.8	734.5	913.0	919.9	350.1	765.4	992.0	2203.6
85°	92.7	113.3	329.5	405.0	470.2	453.1	157.9	308.9	357.0	611.0
87.5°	20.6	34.3	120.1	92.7	89.2	96.1	37.8	72.1	68.6	72.1
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°
6157.9	0°	6157.9	6157.9	6157.9	6157.9	6157.9	6157.9	6157.9	6157.9	6157.9	6157.9
6199.1	2.5°	6195.6	6181.9	6144.1	6102.9	6054.9	6027.4	6010.3	6006.8	5982.8	5965.6
6336.4	5°	6298.6	6284.9	6212.8	6127.0	6034.3	5962.2	5893.6	5831.8	5742.5	5725.4
6535.4	7.5°	6504.5	6466.8	6350.1	6233.4	6058.3	5848.9	5594.9	5303.2	5042.3	4963.4
6799.7	10°	6758.5	6707.1	6559.5	6353.5	5965.6	5395.9	4781.4	4211.6	3758.6	3631.6
7112.1	12.5°	7046.9	7002.3	6806.6	6425.6	5577.8	4544.6	3604.1	2897.0	2457.7	2347.8
7445.0	15°	7390.1	7324.9	7053.7	6315.8	4884.4	3453.1	2474.8	2056.1	1898.2	1877.6
7826.0	17.5°	7754.0	7647.6	7273.4	5921.0	3950.8	2454.2	1911.9	1791.8	1723.1	1702.5
8210.5	20°	8086.9	7949.6	7403.9	5323.8	2951.9	1911.9	1712.8	1633.9	1572.1	1548.0
8594.9	22.5°	8419.9	8224.2	7403.9	4510.3	2213.9	1695.6	1572.1	1500.0	1427.9	1397.0
9006.8	25°	8766.5	8505.7	7273.4	3604.1	1781.5	1554.9	1438.2	1359.3	1297.5	1259.7
9398.1	27.5°	9102.9	8742.5	6974.8	2746.0	1585.8	1431.3	1314.6	1239.1	1180.8	1153.3
9823.7	30°	9422.1	8975.9	6556.0	2083.5	1458.8	1311.2	1201.4	1136.1	1077.8	1050.3
10376.4	32.5°	9854.6	9271.1	6109.8	1709.4	1349.0	1197.9	1098.4	1036.6	985.1	964.5
11093.8	35°	10455.3	9707.0	5725.4	1678.5	1256.3	1105.3	1005.7	947.4	895.9	878.7
12020.5	37.5°	11306.6	10410.7	5522.9	1884.4	1180.8	1022.9	930.2	868.4	820.4	806.6
13197.9	40°	12356.9	11364.9	5632.7	2090.4	1129.3	950.8	861.6	799.8	758.6	741.4
14550.3	42.5°	13602.9	12542.3	6240.2	2248.3	1095.0	889.0	796.3	727.7	700.2	693.4
16084.6	45°	15034.2	13836.3	7170.4	2416.5	1040.0	830.7	731.1	679.6	659.0	655.6
17752.8	47.5°	16661.2	15257.4	8248.2	2625.8	985.1	775.7	679.6	645.3	628.1	621.3
19493.0	50°	18274.5	16688.7	9356.9	2742.5	940.5	724.3	638.4	611.0	597.3	593.8
21332.8	52.5°	19963.3	18161.2	10252.8	2632.7	902.7	683.1	604.1	583.5	569.8	566.4
23028.5	55°	21573.1	19352.3	10407.3	2234.5	827.2	641.9	566.4	556.1	538.9	538.9
24748.2	57.5°	22959.8	19949.6	9315.7	1640.7	751.7	580.1	528.6	518.3	504.6	501.1
26299.6	60°	24233.3	19777.9	7191.0	1105.3	669.3	518.3	480.5	473.7	460.0	442.8
27648.6	62.5°	24950.7	19022.8	4918.7	720.8	587.0	453.1	425.6	422.2	391.3	357.0
28647.4	65°	25221.8	17471.3	3068.6	525.2	490.8	387.9	367.3	360.4	315.8	278.0
29213.8	67.5°	24985.0	14917.5	1548.0	415.3	387.9	322.7	302.1	302.1	271.2	236.8
29179.5	70°	24037.6	11183.0	652.2	333.0	298.6	247.1	247.1	260.9	230.0	192.2
27665.8	72.5°	21981.6	7524.0	346.7	254.0	223.1	175.1	202.5	212.8	181.9	144.2
22644.0	75°	17474.7	4589.2	240.3	188.8	140.7	123.6	154.5	161.3	123.6	96.1
15525.1	77.5°	11951.9	2636.1	161.3	120.1	89.2	72.1	106.4	99.5	65.2	44.6
5986.2	80°	5248.3	1098.4	92.7	54.9	34.3	27.5	37.8	27.5	20.6	13.7
820.4	82.5°	614.4	257.4	34.3	20.6	13.7	6.9	3.4	0.0	0.0	0.0
250.6	85°	127.0	30.9	17.2	6.9	3.4	0.0	0.0	0.0	0.0	0.0
44.6	87.5°	24.0	6.9	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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<u>180°</u>
6157.9
5982.8
5718.5
4925.6
3583.5
2316.9
1857.0
1692.2
1534.3
1379.9
1246.0
1153.3
1053.8
964.5
878.7
803.2
738.0
693.4
652.2
621.3
593.8
566.4
535.5
497.7
439.4
350.1
274.6
233.4
188.8
144.2
92.7
48.1
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