

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: P954715

Luminaire Tested: **GALN-SB7D-850-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954715
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-850-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 5000K, 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: 52903 lumens
Efficiency: N/A
Efficacy: 103.2 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

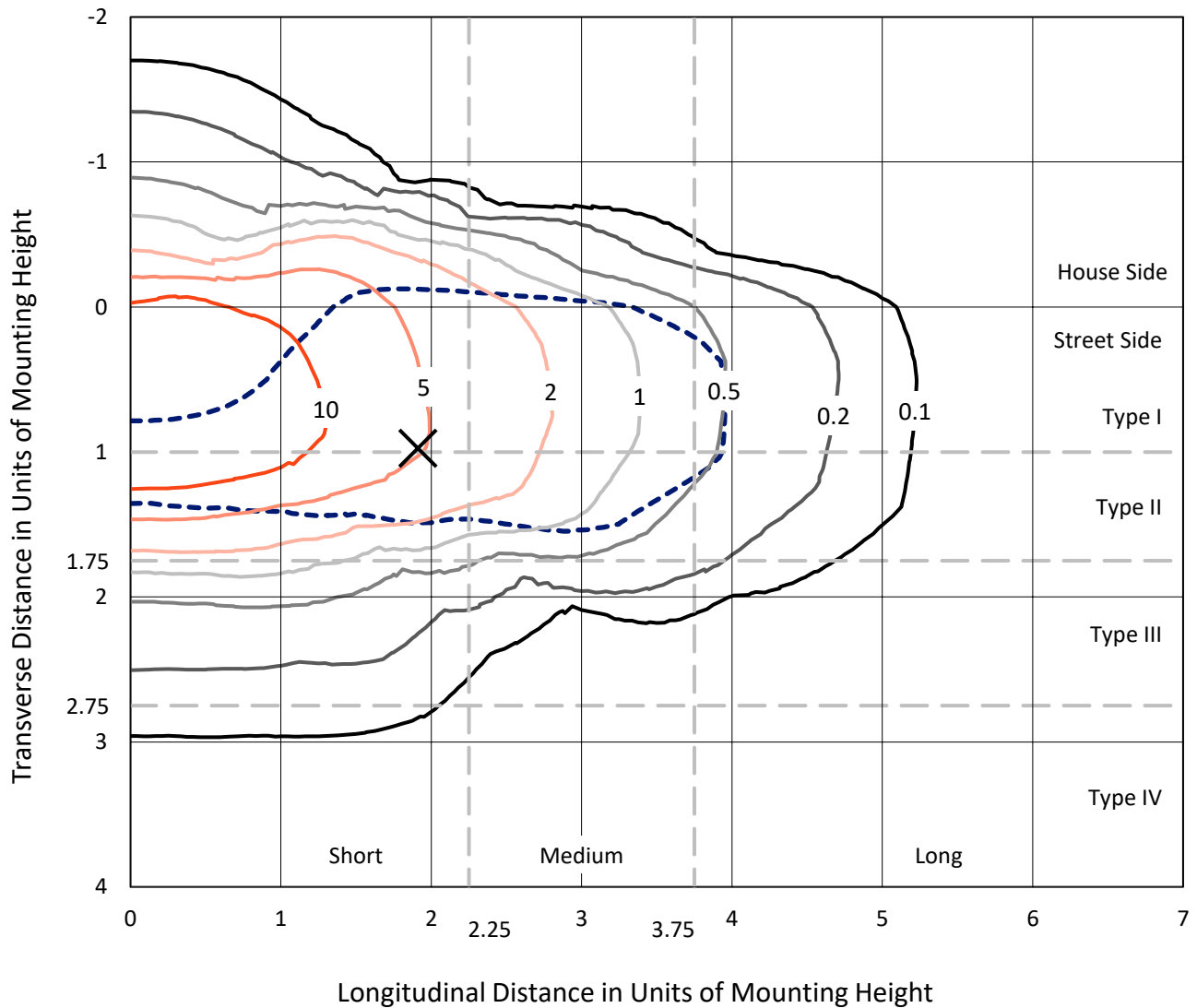
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

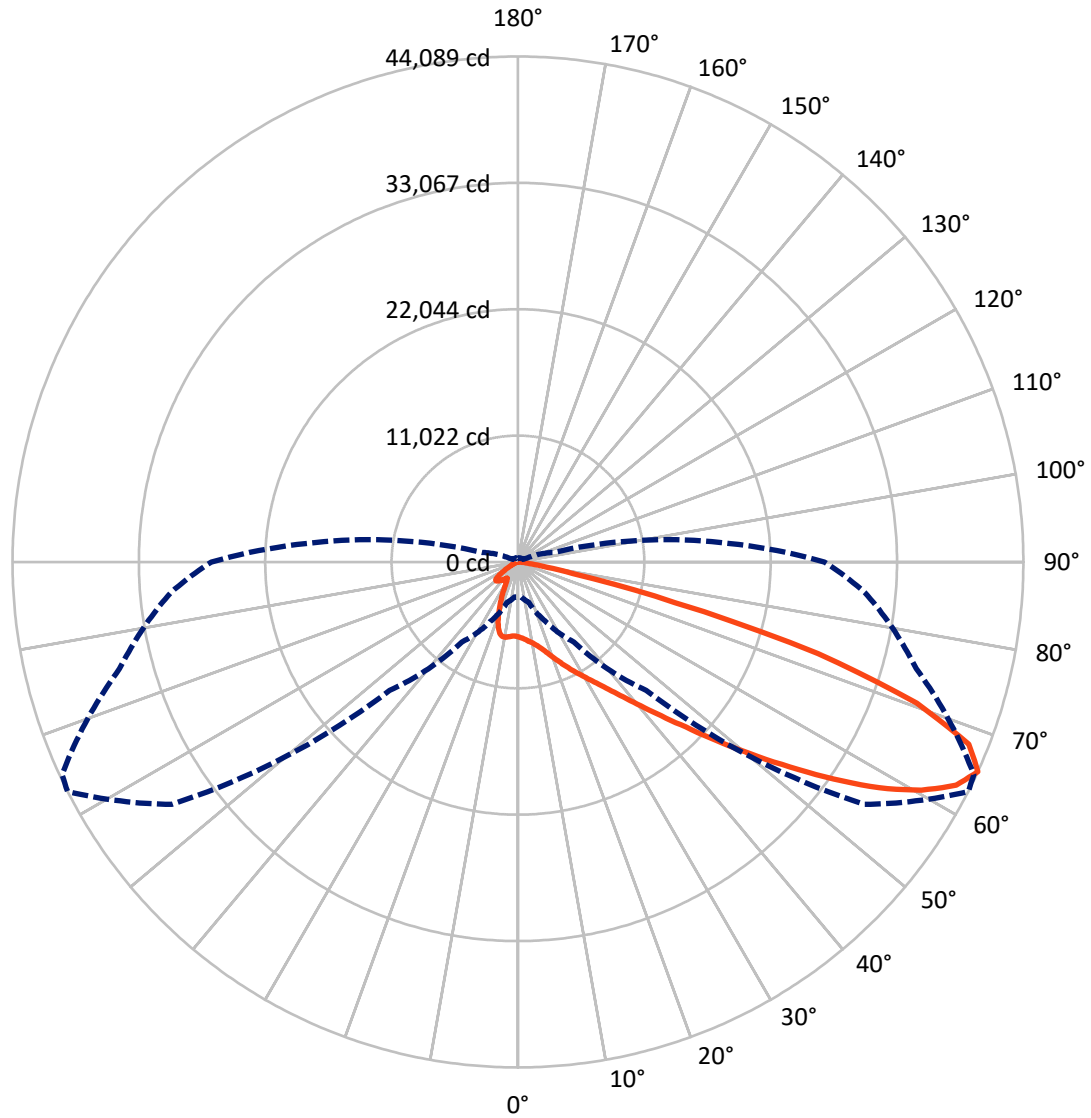
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.9 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	7776.3	0.0	7776.3
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	45126.7	0.0	45126.7
	% Fixture	85.3	0.0	85.3
Total	Lumens	52903.0	0.0	52903.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	615.2	1.2
10°-20°	1706.9	3.2
20°-30°	2972.1	5.6
30°-40°	5356.9	10.1
40°-50°	10624.5	20.1
50°-60°	14472.4	27.4
60°-70°	11551.8	21.8
70°-80°	5227.4	9.9
80°-90°	375.7	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°	52903.0	100.0
0°-180°	52903.0	100.0



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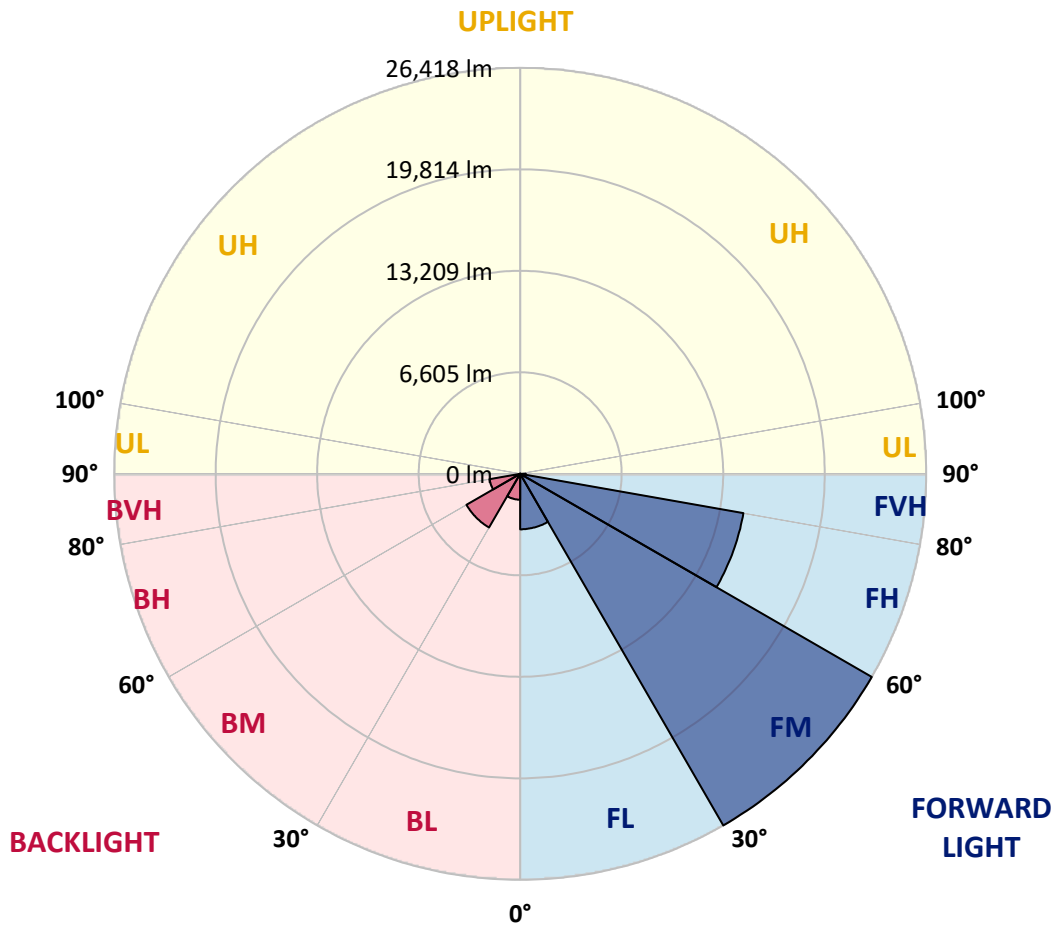
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3611.3	6.8			
FM (30°-60°)	26418.4	49.9			
FH (60°-80°)	14749.1	27.9			G5
FVH (80°-90°)	347.9	0.7			G3/500
BL (0°-30°)	1682.9	3.2	B3/2500		
BM (30°-60°)	4035.4	7.6	B3/5000		
BH (60°-80°)	2030.1	3.8	B3/2500		G3/2500
BVH (80°-90°)	27.9	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°	6529.2	6529.2	6529.2	6529.2	6529.2	6529.2	6529.2	6529.2	6529.2	6529.2
2.5°	6682.1	6663.9	6689.4	6678.4	6671.2	6656.6	6649.3	6642.1	6627.5	6616.6
5°	6700.3	6689.4	6714.8	6736.7	6758.5	6780.4	6791.3	6805.8	6791.3	6762.2
7.5°	6547.4	6540.1	6594.7	6660.3	6758.5	6842.2	6933.2	6984.2	6987.8	6976.9
10°	6536.5	6518.3	6572.9	6653.0	6780.4	6929.6	7089.7	7198.9	7213.5	7260.8
12.5°	6707.6	6689.4	6765.8	6853.1	6984.2	7140.7	7337.2	7490.1	7511.9	7577.4
15°	6995.1	6969.6	7057.0	7169.8	7337.2	7515.5	7723.0	7861.3	7879.5	7959.5
17.5°	7329.9	7304.4	7406.3	7526.4	7708.4	7952.3	8192.5	8345.3	8367.2	8418.1
20°	7759.4	7726.6	7806.7	7915.9	8108.8	8399.9	8687.4	8905.8	8902.2	8902.2
22.5°	8258.0	8207.0	8276.2	8363.5	8545.5	8898.5	9280.7	9539.1	9539.1	9437.2
25°	8793.0	8742.0	8818.5	8898.5	9058.7	9459.0	9906.7	10226.9	10241.5	10066.8
27.5°	9462.7	9397.1	9455.4	9550.0	9644.6	10052.2	10583.6	10954.8	10962.1	10692.8
30°	10751.0	10565.4	10383.4	10281.5	10325.2	10729.2	11297.0	11708.2	11744.6	11373.4
32.5°	13109.4	13073.0	12432.5	11595.4	11158.7	11457.1	12094.0	12589.0	12610.8	12134.0
35°	16774.4	16730.7	15700.7	14106.6	12683.6	12432.5	13062.1	13648.1	13633.5	13094.9
37.5°	21149.0	21109.0	19751.5	17618.7	15314.9	13906.5	14310.4	14925.5	15016.5	14310.4
40°	24886.8	24737.6	23878.6	21822.3	18808.8	16352.2	16086.5	16494.1	16588.8	15751.7
42.5°	27718.3	27590.9	27154.2	25869.4	23037.9	19969.8	18179.2	18335.7	18441.3	17436.8
45°	29185.0	29155.9	29330.6	29210.5	27347.1	24410.0	21170.9	20519.4	20559.4	19303.8
47.5°	29392.5	29377.9	30174.9	31303.2	31052.1	29417.9	25010.5	23241.7	23099.8	21411.1
50°	28169.6	28140.5	29669.1	31783.6	33526.9	33625.2	29370.6	26309.8	25996.8	23591.1
52.5°	24264.4	24257.1	26768.4	30287.8	34396.7	37308.3	33679.8	29680.0	29155.9	25898.6
55°	18670.5	18805.2	21684.0	25844.0	32809.9	39080.8	37548.5	33421.4	32617.0	28220.5
57.5°	13225.9	13422.4	16268.5	19973.5	27889.3	38032.6	40165.3	37170.0	36303.8	30535.2
60°	7104.3	7279.0	10128.7	14550.6	20748.7	34123.8	41544.7	40423.7	39604.8	32733.5
62.5°	4232.7	4290.9	5470.1	9393.5	14033.8	26069.6	40958.7	42902.2	42228.9	34578.7
65°	3039.0	3049.9	3643.1	5735.8	8520.0	15839.0	36849.8	44088.7	43881.2	35969.0
67.5°	2558.6	2551.3	2798.8	3810.5	5805.0	7934.1	28242.4	42410.9	43291.6	36849.8
70°	2194.6	2205.5	2496.7	2791.5	4363.7	4491.1	14041.1	36926.2	38804.2	37082.7
72.5°	1634.1	1670.5	1939.8	2544.0	3293.7	3089.9	4847.8	27379.8	30775.5	34939.0
75°	1153.7	1171.9	1364.8	2140.0	2456.7	2249.2	2474.8	14153.9	18506.8	26786.6
77.5°	888.0	920.8	1033.6	1495.8	2420.3	1579.5	1514.0	4898.7	7526.4	16181.1
80°	480.4	538.6	746.1	1080.9	1699.6	1117.3	749.7	1950.8	2551.3	7566.5
82.5°	247.5	276.6	520.4	778.8	968.1	975.4	371.2	811.6	1051.8	2336.5
85°	98.3	120.1	349.4	429.5	498.6	480.4	167.4	327.6	378.5	647.8
87.5°	21.8	36.4	127.4	98.3	94.6	101.9	40.0	76.4	72.8	76.4
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°
6529.2	0°	6529.2	6529.2	6529.2	6529.2	6529.2	6529.2	6529.2	6529.2	6529.2	6529.2
6572.9	2.5°	6569.3	6554.7	6514.7	6471.0	6420.0	6390.9	6372.7	6369.1	6343.6	6325.4
6718.5	5°	6678.4	6663.9	6587.5	6496.5	6398.2	6321.8	6249.0	6183.5	6088.9	6070.7
6929.6	7.5°	6896.8	6856.8	6733.0	6609.3	6423.7	6201.7	5932.4	5623.0	5346.4	5262.7
7209.8	10°	7166.1	7111.5	6955.0	6736.7	6325.4	5721.3	5069.8	4465.6	3985.2	3850.6
7541.0	12.5°	7471.9	7424.5	7217.1	6813.1	5914.2	4818.7	3821.5	3071.7	2605.9	2489.4
7894.0	15°	7835.8	7766.7	7479.1	6696.6	5179.0	3661.3	2624.1	2180.0	2012.6	1990.8
8298.0	17.5°	8221.6	8108.8	7712.1	6278.1	4189.0	2602.2	2027.2	1899.8	1827.0	1805.2
8705.6	20°	8574.6	8429.0	7850.4	5644.8	3130.0	2027.2	1816.1	1732.4	1666.9	1641.4
9113.3	22.5°	8927.6	8720.2	7850.4	4782.3	2347.5	1797.9	1666.9	1590.5	1514.0	1481.3
9550.0	25°	9295.2	9018.6	7712.1	3821.5	1888.9	1648.7	1524.9	1441.2	1375.7	1335.7
9964.9	27.5°	9651.9	9269.8	7395.4	2911.6	1681.4	1517.7	1393.9	1313.9	1252.0	1222.9
10416.2	30°	9990.4	9517.2	6951.4	2209.2	1546.8	1390.3	1273.8	1204.7	1142.8	1113.7
11002.2	32.5°	10449.0	9830.2	6478.3	1812.5	1430.3	1270.2	1164.6	1099.1	1044.5	1022.7
11762.8	35°	11085.9	10292.5	6070.7	1779.7	1332.1	1171.9	1066.4	1004.5	949.9	931.7
12745.5	37.5°	11988.5	11038.5	5855.9	1998.1	1252.0	1084.6	986.3	920.8	869.8	855.3
13993.8	40°	13102.1	12050.3	5972.4	2216.4	1197.4	1008.1	913.5	848.0	804.3	786.1
15427.8	42.5°	14423.3	13298.7	6616.6	2383.9	1161.0	942.6	844.4	771.6	742.5	735.2
17054.6	45°	15940.9	14670.7	7602.9	2562.2	1102.8	880.8	775.2	720.6	698.8	695.1
18823.4	47.5°	17666.0	16177.5	8745.7	2784.2	1044.5	822.5	720.6	684.2	666.0	658.7
20668.6	50°	19376.6	17695.2	9921.2	2907.9	997.2	767.9	676.9	647.8	633.3	629.6
22619.4	52.5°	21167.2	19256.5	10871.1	2791.5	957.2	724.3	640.5	618.7	604.2	600.5
24417.3	55°	22874.1	20519.4	11034.9	2369.3	877.1	680.6	600.5	589.6	571.4	571.4
26240.7	57.5°	24344.5	21152.7	9877.6	1739.7	797.0	615.1	560.5	549.6	535.0	531.4
27885.7	60°	25694.7	20970.7	7624.7	1171.9	709.7	549.6	509.5	502.2	487.7	469.5
29316.0	62.5°	26455.4	20170.0	5215.4	764.3	622.4	480.4	451.3	447.7	414.9	378.5
30375.1	65°	26742.9	18525.0	3253.7	556.8	520.4	411.3	389.4	382.1	334.8	294.8
30975.6	67.5°	26491.8	15817.2	1641.4	440.4	411.3	342.1	320.3	320.3	287.5	251.1
30939.2	70°	25487.3	11857.4	691.5	353.0	316.6	262.0	262.0	276.6	243.8	203.8
29334.2	72.5°	23307.2	7977.7	367.6	269.3	236.6	185.6	214.7	225.6	192.9	152.9
24009.7	75°	18528.6	4866.0	254.8	200.2	149.2	131.0	163.8	171.1	131.0	101.9
16461.4	77.5°	12672.7	2795.1	171.1	127.4	94.6	76.4	112.8	105.5	69.2	47.3
6347.3	80°	5564.8	1164.6	98.3	58.2	36.4	29.1	40.0	29.1	21.8	14.6
869.8	82.5°	651.5	273.0	36.4	21.8	14.6	7.3	3.6	0.0	0.0	0.0
265.7	85°	134.7	32.8	18.2	7.3	3.6	0.0	0.0	0.0	0.0	0.0
47.3	87.5°	25.5	7.3	3.6	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°
6529.2
6343.6
6063.4
5222.7
3799.6
2456.7
1969.0
1794.3
1626.8
1463.1
1321.1
1222.9
1117.3
1022.7
931.7
851.6
782.5
735.2
691.5
658.7
629.6
600.5
567.8
527.7
465.9
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200.2
152.9
98.3
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