

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: P943346

Luminaire Tested: **GALN-SB7D-740-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943346
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7D-740-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 60047 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

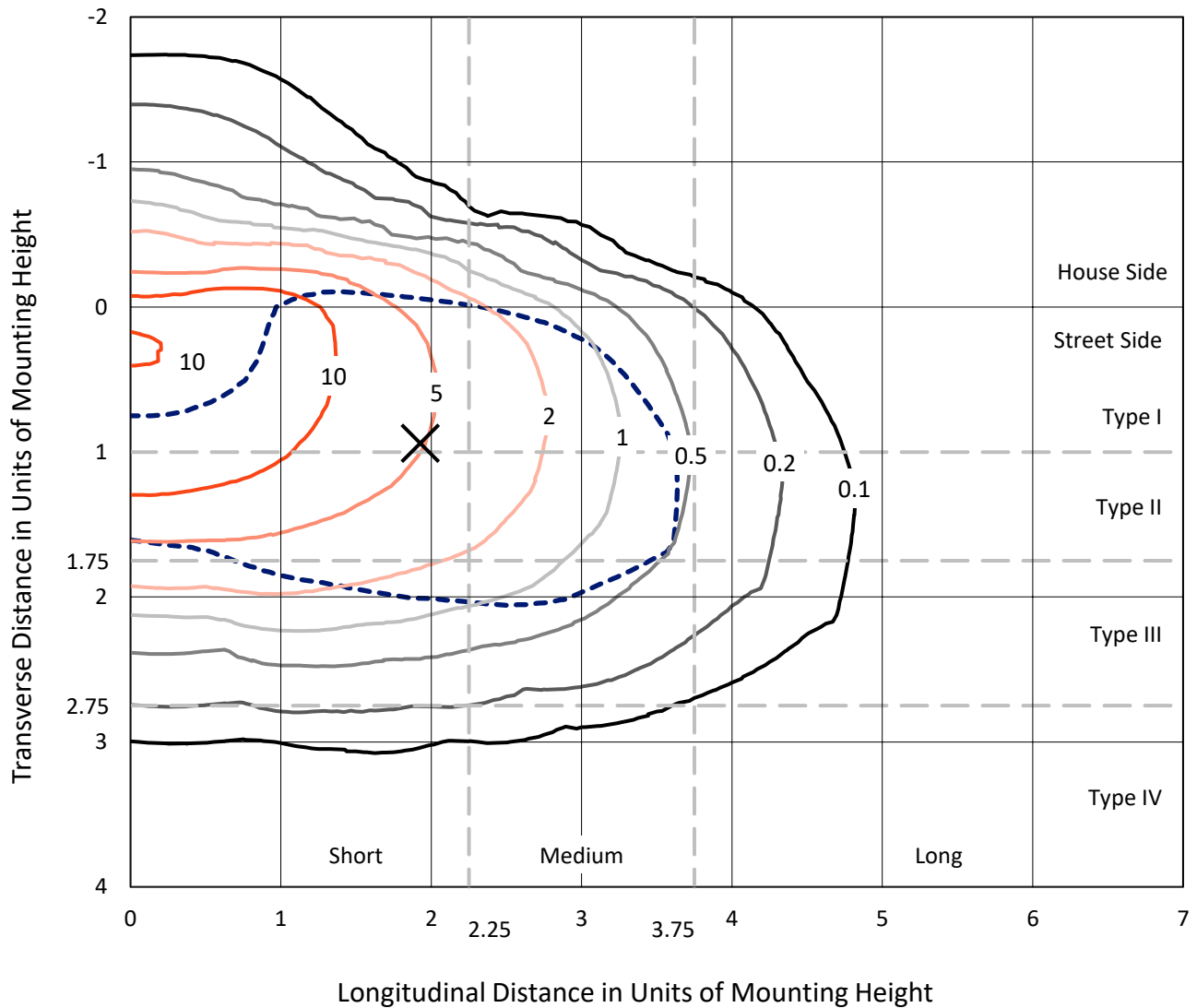
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

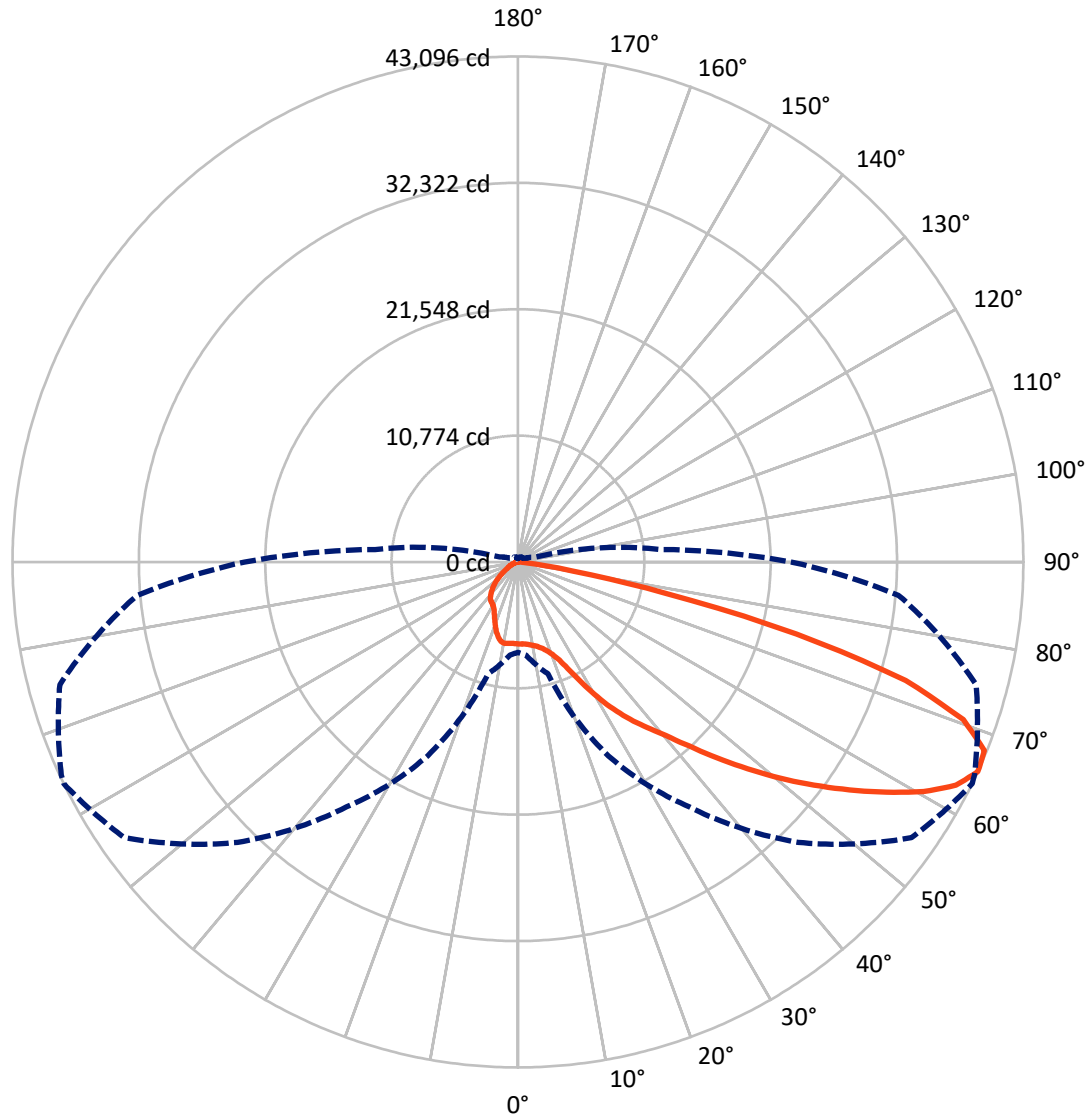
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8030.1	0.0	8030.1
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	52016.9	0.0	52016.9
	% Fixture	86.6	0.0	86.6
Total	Lumens	60047.0	0.0	60047.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	644.4	1.1
10°-20°	1747.7	2.9
20°-30°	3311.7	5.5
30°-40°	6701.3	11.2
40°-50°	11415.7	19.0
50°-60°	15524.5	25.9
60°-70°	14578.2	24.3
70°-80°	5840.7	9.7
80°-90°	283.0	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°	60047.0	100.0
0°-180°	60047.0	100.0

Coefficient of Utilization



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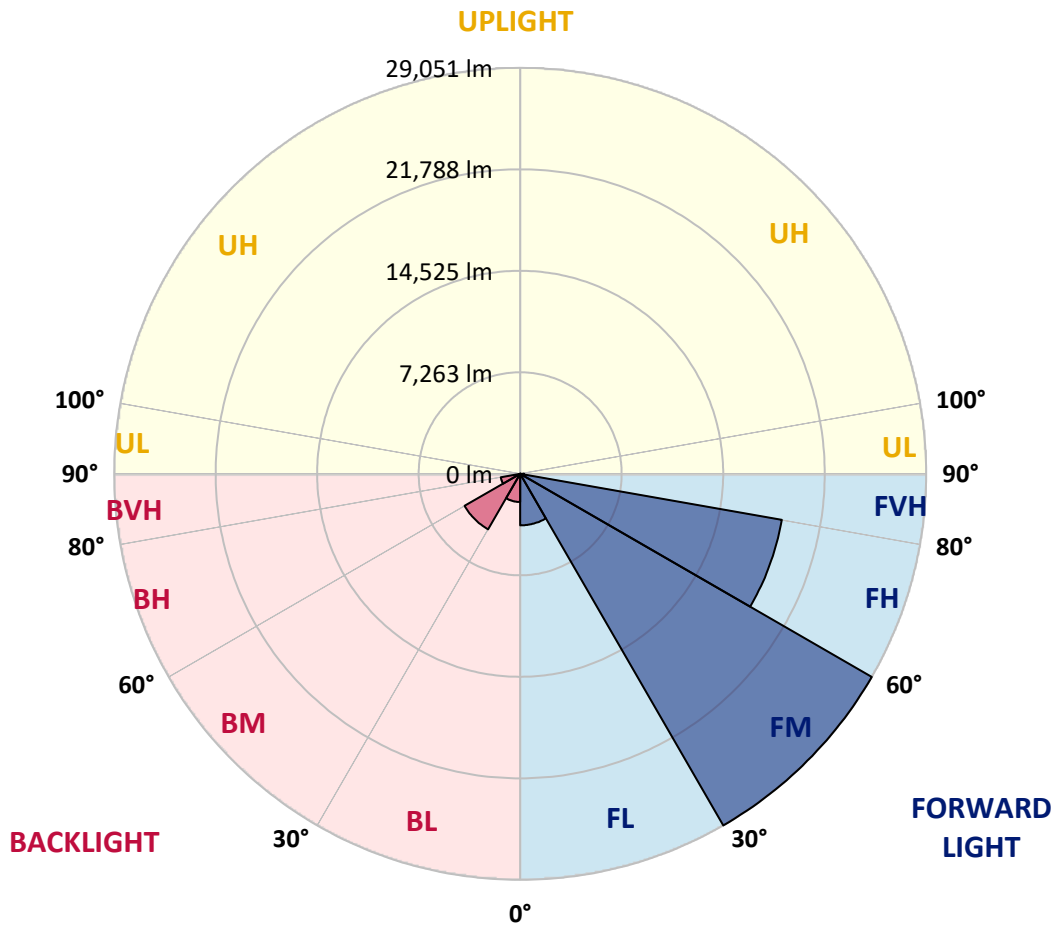
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3687.6	6.1			
FM (30°-60°)	29050.7	48.4			
FH (60°-80°)	19009.5	31.7			G5
FVH (80°-90°)	269.1	0.4			G3/500
BL (0°-30°)	2016.1	3.4	B3/2500		
BM (30°-60°)	4590.8	7.6	B3/5000		
BH (60°-80°)	1409.4	2.3	B3/2500		G3/2500
BVH (80°-90°)	13.8	0.0			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	6984.1	6984.1	6984.1	6984.1	6984.1	6984.1	6984.1	6984.1	6984.1	6984.1
2.5°	6959.9	7008.2	6996.2	6984.1	6980.1	6988.1	6992.1	6988.1	6988.1	6988.1
5°	6827.1	6867.4	6867.4	6895.5	6935.8	6984.1	7020.3	7028.4	7036.4	7048.5
7.5°	6573.5	6605.7	6629.9	6722.4	6823.1	6951.9	7060.6	7116.9	7125.0	7169.3
10°	6400.4	6440.7	6480.9	6577.5	6722.4	6915.7	7100.8	7237.7	7257.8	7362.5
12.5°	6392.4	6432.6	6484.9	6589.6	6758.7	6964.0	7189.4	7386.6	7422.9	7575.8
15°	6476.9	6525.2	6573.5	6702.3	6883.5	7133.0	7374.6	7620.1	7656.3	7873.7
17.5°	6650.0	6714.4	6750.6	6879.4	7072.6	7350.4	7668.4	7950.2	7982.4	8236.0
20°	6992.1	7068.6	7080.7	7185.4	7374.6	7672.4	8050.8	8401.0	8441.3	8731.1
22.5°	7700.6	7809.3	7712.7	7765.0	7934.1	8232.0	8642.6	9085.4	9141.7	9471.8
25°	8948.5	9101.5	8851.9	8763.3	8835.8	9145.7	9661.0	10220.5	10284.9	10550.6
27.5°	11400.0	11202.7	10824.3	10454.0	10236.6	10413.7	10993.4	11685.8	11766.3	12023.9
30°	14093.0	13919.9	13408.6	12587.5	12072.2	12044.0	12579.4	13352.3	13444.9	13690.4
32.5°	16790.0	16625.0	16069.4	15059.1	14165.4	13722.6	14093.0	14950.4	14998.7	15155.7
35°	19442.7	19273.7	18718.2	17683.6	16584.7	15578.3	15505.9	16472.0	16488.1	16653.1
37.5°	22111.6	21970.7	21379.0	20364.6	19281.7	17893.0	17220.7	17913.1	17933.2	18094.2
40°	24015.6	24076.0	23669.4	22884.5	21954.6	20437.0	19144.9	19446.8	19326.0	19595.7
42.5°	25649.9	25770.7	25416.5	25022.0	24482.6	23146.1	21527.9	21475.6	21282.4	21427.3
45°	27062.8	27163.5	26845.5	26752.9	26740.8	25802.9	24132.3	23818.4	23548.7	23520.5
47.5°	27582.1	27775.3	27912.2	28222.2	28826.0	28431.5	26825.3	26338.3	26036.4	25815.0
50°	27779.4	27984.7	28451.6	29353.3	30782.3	30951.4	29506.3	28958.8	28588.5	28185.9
52.5°	27513.7	27880.0	28508.0	30025.5	32098.6	32972.1	32078.5	31599.5	31176.8	30520.7
55°	25947.8	26314.1	27598.2	30017.5	32754.8	34389.1	34509.9	34296.5	33821.5	32787.0
57.5°	22647.0	23190.4	25223.2	28995.0	32742.7	35608.8	36892.9	37045.9	36514.5	35033.2
60°	18074.1	18810.7	21290.4	26728.7	31732.3	36269.0	38982.1	39746.9	39183.4	37247.1
62.5°	12611.6	13465.0	15811.8	23178.3	29421.7	35794.0	40507.7	41920.6	41493.9	39227.6
65°	7692.6	7966.3	9858.2	18239.1	25492.9	33805.4	40978.7	43096.1	42955.2	40439.3
67.5°	5124.3	5353.8	5897.2	12507.0	19788.9	29832.3	39851.6	42890.8	42931.0	40242.0
70°	3087.5	3284.7	3639.0	7273.9	12825.0	23613.1	36361.5	40274.2	40507.7	37605.4
72.5°	1272.0	1404.9	1726.9	3296.8	6641.9	14986.6	28954.8	34578.3	35121.7	31619.6
75°	720.5	789.0	1014.4	1654.4	2882.2	6984.1	17538.7	24547.0	25348.0	21793.6
77.5°	479.0	511.2	656.1	1070.8	1622.2	2383.0	7495.3	12788.7	14318.4	11903.1
80°	322.0	350.2	450.8	716.5	1054.7	1022.5	2387.1	4737.9	5828.8	4089.8
82.5°	217.4	221.4	322.0	471.0	668.2	495.1	704.4	1473.3	1851.7	1183.5
85°	124.8	120.8	237.5	273.7	297.9	205.3	213.3	442.8	579.7	499.2
87.5°	16.1	24.2	92.6	72.5	40.3	44.3	44.3	76.5	112.7	120.8
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°
6984.1	0°	6984.1	6984.1	6984.1	6984.1	6984.1	6984.1	6984.1	6984.1	6984.1	6984.1
6992.1	2.5°	6992.1	6988.1	6976.0	6964.0	6935.8	6919.7	6927.7	6919.7	6915.7	6919.7
7044.5	5°	7044.5	7032.4	7000.2	6959.9	6903.6	6835.1	6790.9	6726.5	6666.1	6629.9
7185.4	7.5°	7185.4	7173.3	7129.0	7016.3	6835.1	6549.3	6287.7	6058.2	5885.2	5784.5
7410.8	10°	7410.8	7390.7	7322.2	7072.6	6597.7	5973.7	5454.4	5023.7	4741.9	4609.1
7676.5	12.5°	7676.5	7652.3	7531.5	7020.3	6146.8	5172.7	4456.1	3977.1	3715.5	3598.7
7982.4	15°	7990.4	7958.2	7720.7	6770.7	5490.7	4287.1	3630.9	3272.7	3103.6	2998.9
8372.9	17.5°	8380.9	8324.6	7861.6	6396.4	4778.2	3610.8	3123.7	2854.0	2705.1	2604.4
8884.1	20°	8888.1	8795.5	7974.3	5949.6	4122.0	3184.1	2781.6	2556.1	2443.4	2354.9
9608.7	22.5°	9596.6	9463.7	8111.2	5466.5	3659.1	2890.2	2528.0	2362.9	2270.3	2169.7
10619.0	25°	10474.1	10317.1	8280.3	5019.7	3341.1	2636.6	2342.8	2205.9	2097.2	1980.5
11943.4	27.5°	11701.9	11420.1	8481.5	4653.4	3067.4	2419.3	2173.7	2020.8	1896.0	1799.4
13444.9	30°	13070.5	12607.6	8658.7	4432.0	2817.8	2218.0	1952.3	1799.4	1682.6	1614.2
14793.4	32.5°	14366.7	13738.7	8775.4	4335.4	2592.4	1988.6	1710.8	1545.8	1457.2	1437.1
16113.7	35°	15590.4	14761.2	8763.3	4242.8	2391.1	1759.1	1473.3	1304.2	1235.8	1247.9
17534.7	37.5°	16999.3	15852.1	8678.8	4097.9	2226.1	1549.8	1268.0	1119.1	1058.7	1062.7
19261.6	40°	18637.7	17112.0	8626.5	3824.1	2044.9	1356.6	1098.9	978.2	933.9	917.8
21081.1	42.5°	20384.7	18331.7	8634.5	3514.2	1819.5	1183.5	982.2	881.6	841.3	829.2
23105.9	45°	22139.8	19495.1	8646.6	3192.2	1582.0	1050.6	897.7	813.1	789.0	772.9
25158.8	47.5°	23790.2	20485.3	8421.2	2846.0	1348.5	950.0	829.2	772.9	752.8	732.6
27219.8	50°	25327.9	21145.5	7877.7	2443.4	1163.3	869.5	776.9	736.7	716.5	696.4
29087.6	52.5°	26523.4	21250.1	6980.1	2028.8	1034.5	809.1	744.7	708.5	684.3	664.2
30597.2	55°	27054.8	20594.0	5704.0	1642.4	933.9	756.8	712.5	676.3	648.1	628.0
31784.7	57.5°	26917.9	19213.3	4448.1	1320.3	837.3	704.4	672.2	648.1	615.9	583.7
32746.7	60°	26245.7	17365.6	3353.2	1098.9	748.7	648.1	628.0	607.8	563.6	515.3
33117.1	62.5°	25082.3	15043.0	2391.1	909.7	652.1	583.7	575.6	559.5	495.1	406.6
32569.6	65°	23303.1	12221.2	1610.2	756.8	559.5	511.2	515.3	487.1	402.5	301.9
30565.0	67.5°	20702.7	8936.4	1030.5	619.9	466.9	426.7	430.7	414.6	342.2	257.6
26765.0	70°	17389.8	5917.4	672.2	471.0	374.4	330.1	354.2	358.3	289.8	209.3
20541.7	72.5°	12748.5	3494.1	471.0	350.2	273.7	229.4	289.8	297.9	233.5	157.0
12358.0	75°	7265.9	1658.5	354.2	253.6	169.1	161.0	225.4	225.4	161.0	104.7
5349.8	77.5°	3051.3	692.4	249.6	165.0	96.6	92.6	153.0	140.9	80.5	48.3
1304.2	80°	881.6	310.0	132.8	80.5	40.3	36.2	60.4	44.3	20.1	8.1
495.1	82.5°	346.2	136.9	52.3	32.2	16.1	16.1	8.1	0.0	0.0	0.0
281.8	85°	205.3	56.4	24.2	12.1	4.0	0.0	0.0	0.0	0.0	0.0
60.4	87.5°	52.3	12.1	8.1	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>
6984.1
6935.8
6637.9
5788.5
4597.0
3586.6
3003.0
2596.4
2338.8
2153.6
1968.4
1779.2
1602.1
1449.1
1247.9
1078.8
913.8
825.2
772.9
732.6
696.4
660.2
623.9
579.7
507.2
398.5
293.9
245.6
201.3
148.9
96.6
48.3
8.1
0.0
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