

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: P943076

Luminaire Tested: **GALN-SB7B-850-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943076
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-SB7B-850-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 5000K, 450mA 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: 30042 lumens
Efficiency: N/A
Efficacy: 117.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

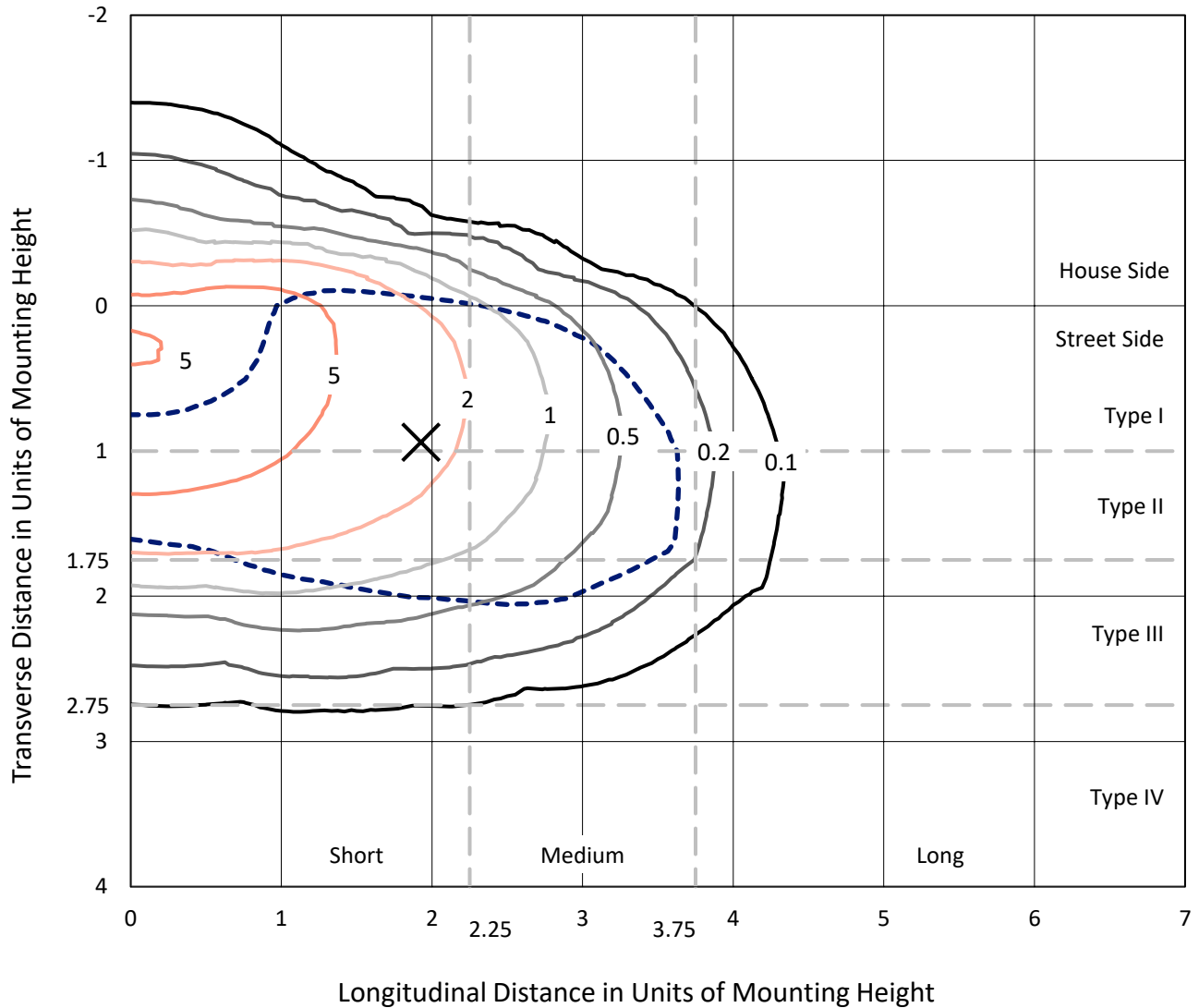
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

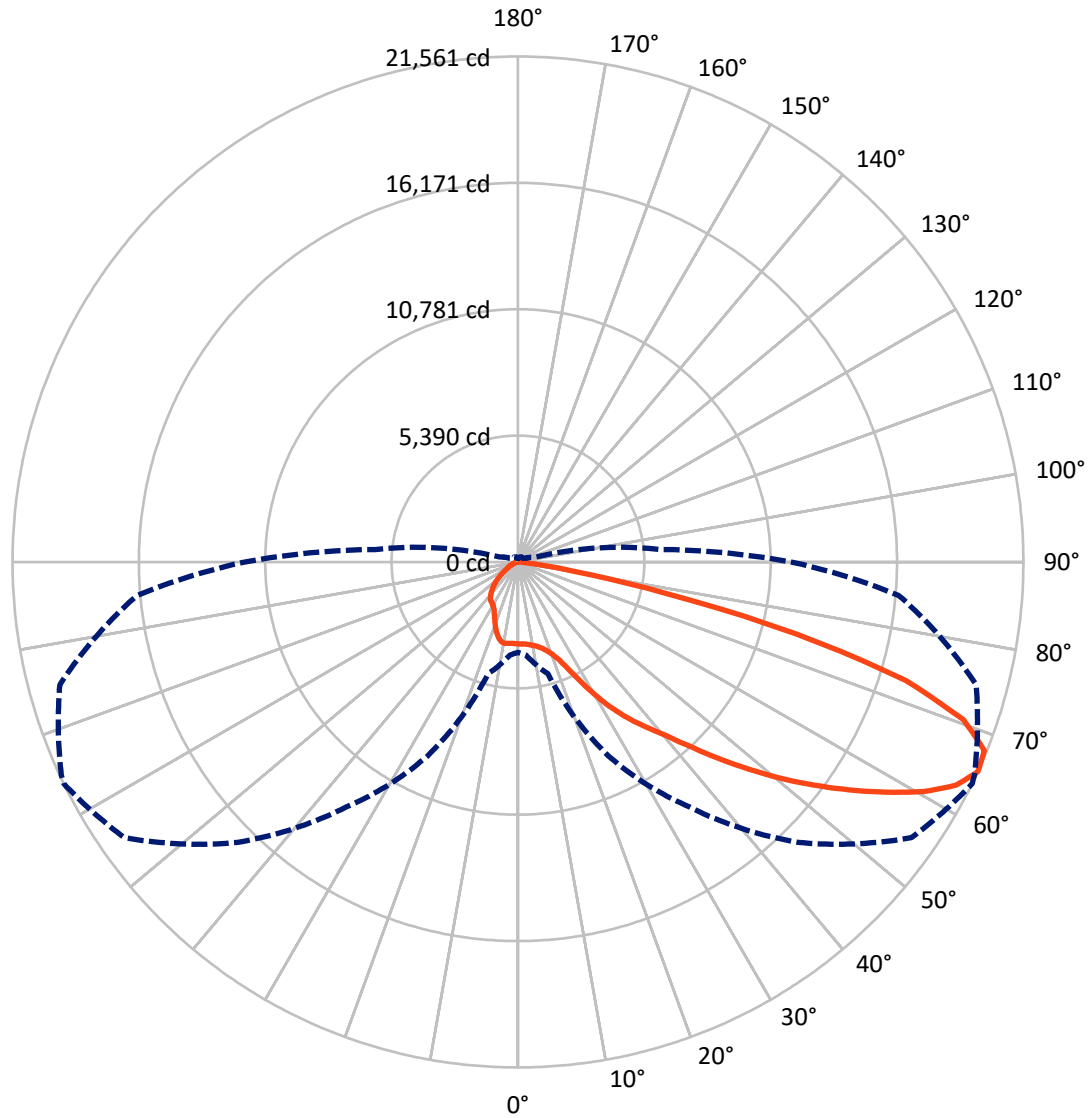
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 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	4017.5	0.0	4017.5
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	26024.5	0.0	26024.5
	% Fixture	86.6	0.0	86.6
Total	Lumens	30042.0	0.0	30042.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	322.4	1.1
10°-20°	874.4	2.9
20°-30°	1656.9	5.5
30°-40°	3352.7	11.2
40°-50°	5711.4	19.0
50°-60°	7767.0	25.9
60°-70°	7293.6	24.3
70°-80°	2922.1	9.7
80°-90°	141.6	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°	30042.0	100.0
0°-180°	30042.0	100.0

Coefficient of Utilization



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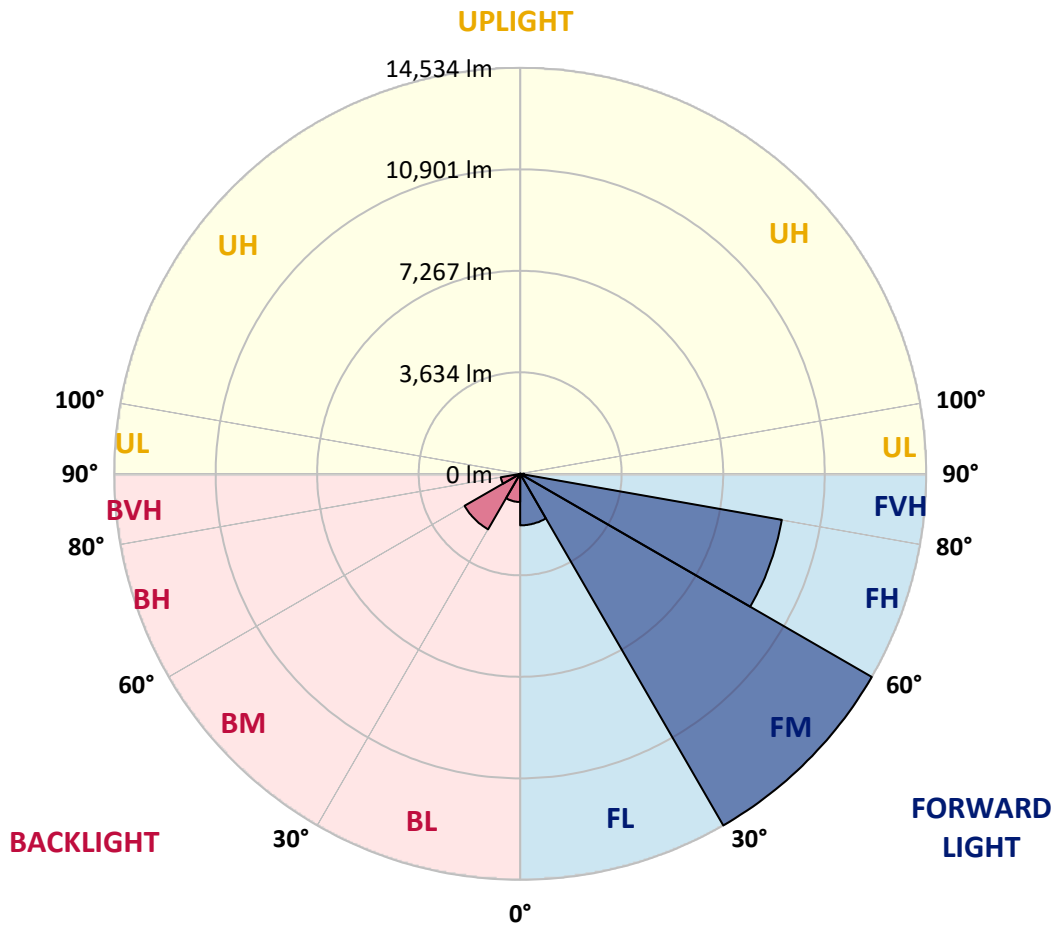
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1844.9	6.1			
FM (30°-60°)	14534.3	48.4			
FH (60°-80°)	9510.6	31.7			G4/12000
FVH (80°-90°)	134.7	0.4			G2/225
BL (0°-30°)	1008.7	3.4	B3/2500		
BM (30°-60°)	2296.8	7.6	B2/2500		
BH (60°-80°)	705.1	2.3	B2/1000		G2/1000
BVH (80°-90°)	6.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	3494.2	3494.2	3494.2	3494.2	3494.2	3494.2	3494.2	3494.2	3494.2	3494.2
2.5°	3482.1	3506.3	3500.2	3494.2	3492.2	3496.2	3498.2	3496.2	3496.2	3496.2
5°	3415.7	3435.8	3435.8	3449.9	3470.0	3494.2	3512.3	3516.3	3520.4	3526.4
7.5°	3288.8	3304.9	3317.0	3363.3	3413.6	3478.1	3532.5	3560.7	3564.7	3586.8
10°	3202.2	3222.3	3242.5	3290.8	3363.3	3460.0	3552.6	3621.1	3631.1	3683.5
12.5°	3198.1	3218.3	3244.5	3296.8	3381.4	3484.1	3596.9	3695.6	3713.7	3790.2
15°	3240.4	3264.6	3288.8	3353.2	3443.8	3568.7	3689.5	3812.4	3830.5	3939.3
17.5°	3327.0	3359.3	3377.4	3441.8	3538.5	3677.5	3836.6	3977.5	3993.7	4120.5
20°	3498.2	3536.5	3542.5	3594.9	3689.5	3838.6	4027.9	4203.1	4223.2	4368.2
22.5°	3852.7	3907.1	3858.7	3884.9	3969.5	4118.5	4323.9	4545.5	4573.7	4738.8
25°	4477.0	4553.5	4428.7	4384.4	4420.6	4575.7	4833.5	5113.4	5145.6	5278.6
27.5°	5703.5	5604.8	5415.5	5230.2	5121.5	5210.1	5500.1	5846.5	5886.8	6015.7
30°	7050.8	6964.2	6708.5	6297.6	6039.8	6025.7	6293.6	6680.3	6726.6	6849.4
32.5°	8400.2	8317.6	8039.7	7534.2	7087.1	6865.5	7050.8	7479.8	7504.0	7582.5
35°	9727.4	9642.8	9364.8	8847.3	8297.5	7794.0	7757.7	8241.1	8249.1	8331.7
37.5°	11062.6	10992.1	10696.1	10188.6	9646.8	8952.0	8615.7	8962.1	8972.1	9052.7
40°	12015.2	12045.4	11842.0	11449.3	10984.1	10224.8	9578.3	9729.4	9669.0	9803.9
42.5°	12832.9	12893.3	12716.1	12518.7	12248.8	11580.2	10770.6	10744.4	10647.7	10720.2
45°	13539.8	13590.1	13431.0	13384.7	13378.6	12909.4	12073.6	11916.5	11781.6	11767.5
47.5°	13799.6	13896.2	13964.7	14119.8	14421.9	14224.5	13420.9	13177.2	13026.2	12915.4
50°	13898.2	14001.0	14234.6	14685.7	15400.6	15485.2	14762.2	14488.3	14303.0	14101.7
52.5°	13765.3	13948.6	14262.8	15022.0	16059.2	16496.2	16049.1	15809.5	15598.0	15269.7
55°	12981.9	13165.2	13807.6	15018.0	16387.5	17205.1	17265.6	17158.8	16921.2	16403.6
57.5°	11330.5	11602.3	12619.4	14506.5	16381.4	17815.4	18457.8	18534.3	18268.5	17527.4
60°	9042.6	9411.2	10651.8	13372.6	15875.9	18145.7	19503.1	19885.7	19603.8	18635.0
62.5°	6309.7	6736.6	7910.8	11596.3	14719.9	17908.0	20266.3	20973.2	20759.8	19625.9
65°	3848.7	3985.6	4932.2	9125.2	12754.3	16913.1	20502.0	21561.3	21490.8	20232.1
67.5°	2563.8	2678.5	2950.4	6257.3	9900.6	14925.4	19938.1	21458.6	21478.7	20133.4
70°	1544.7	1643.4	1820.6	3639.2	6416.4	11813.8	18192.0	20149.5	20266.3	18814.3
72.5°	636.4	702.9	864.0	1649.4	3323.0	7497.9	14486.3	17299.8	17571.7	15819.5
75°	360.5	394.7	507.5	827.7	1442.0	3494.2	8774.8	12281.0	12681.8	10903.5
77.5°	239.7	255.8	328.3	535.7	811.6	1192.3	3750.0	6398.3	7163.6	5955.2
80°	161.1	175.2	225.6	358.5	527.7	511.5	1194.3	2370.4	2916.2	2046.2
82.5°	108.8	110.8	161.1	235.6	334.3	247.7	352.4	737.1	926.4	592.1
85°	62.4	60.4	118.8	136.9	149.0	102.7	106.7	221.5	290.0	249.7
87.5°	8.1	12.1	46.3	36.3	20.1	22.2	22.2	38.3	56.4	60.4
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°
3494.2	0°	3494.2	3494.2	3494.2	3494.2	3494.2	3494.2	3494.2	3494.2	3494.2	3494.2
3498.2	2.5°	3498.2	3496.2	3490.2	3484.1	3470.0	3462.0	3466.0	3462.0	3460.0	3462.0
3524.4	5°	3524.4	3518.4	3502.3	3482.1	3453.9	3419.7	3397.5	3365.3	3335.1	3317.0
3594.9	7.5°	3594.9	3588.9	3566.7	3510.3	3419.7	3276.7	3145.8	3031.0	2944.4	2894.0
3707.7	10°	3707.7	3697.6	3663.4	3538.5	3300.9	2988.7	2728.9	2513.4	2372.4	2306.0
3840.6	12.5°	3840.6	3828.5	3768.1	3512.3	3075.3	2587.9	2229.4	1989.8	1858.9	1800.5
3993.7	15°	3997.7	3981.6	3862.7	3387.5	2747.0	2144.9	1816.6	1637.3	1552.8	1500.4
4189.0	17.5°	4193.0	4164.8	3933.2	3200.2	2390.6	1806.5	1562.8	1427.9	1353.4	1303.0
4444.8	20°	4446.8	4400.5	3989.6	2976.6	2062.3	1593.0	1391.6	1278.9	1222.5	1178.2
4807.3	22.5°	4801.2	4734.8	4058.1	2734.9	1830.7	1446.0	1264.8	1182.2	1135.9	1085.5
5312.8	25°	5240.3	5161.7	4142.7	2511.4	1671.6	1319.1	1172.1	1103.6	1049.3	990.9
5975.4	27.5°	5854.5	5713.6	4243.4	2328.1	1534.6	1210.4	1087.5	1011.0	948.6	900.2
6726.6	30°	6539.3	6307.7	4332.0	2217.4	1409.8	1109.7	976.8	900.2	841.8	807.6
7401.3	32.5°	7187.8	6873.6	4390.4	2169.0	1297.0	994.9	855.9	773.4	729.0	719.0
8061.8	35°	7800.0	7385.1	4384.4	2122.7	1196.3	880.1	737.1	652.5	618.3	624.3
8772.7	37.5°	8504.9	7930.9	4342.1	2050.2	1113.7	775.4	634.4	559.9	529.7	531.7
9636.7	40°	9324.6	8561.3	4315.9	1913.2	1023.1	678.7	549.8	489.4	467.2	459.2
10547.0	42.5°	10198.6	9171.5	4319.9	1758.2	910.3	592.1	491.4	441.1	420.9	414.9
11560.1	45°	11076.7	9753.5	4326.0	1597.1	791.5	525.6	449.1	406.8	394.7	386.7
12587.2	47.5°	11902.4	10249.0	4213.2	1423.9	674.7	475.3	414.9	386.7	376.6	366.5
13618.3	50°	12671.7	10579.3	3941.3	1222.5	582.0	435.0	388.7	368.6	358.5	348.4
14552.8	52.5°	13269.9	10631.6	3492.2	1015.0	517.6	404.8	372.6	354.5	342.4	332.3
15308.0	55°	13535.7	10303.3	2853.8	821.7	467.2	378.6	356.5	338.3	324.2	314.2
15902.1	57.5°	13467.3	9612.6	2225.4	660.6	418.9	352.4	336.3	324.2	308.1	292.0
16383.5	60°	13130.9	8688.2	1677.6	549.8	374.6	324.2	314.2	304.1	282.0	257.8
16568.7	62.5°	12548.9	7526.1	1196.3	455.2	326.3	292.0	288.0	279.9	247.7	203.4
16294.8	65°	11658.7	6114.3	805.6	378.6	279.9	255.8	257.8	243.7	201.4	151.0
15291.9	67.5°	10357.7	4471.0	515.6	310.1	233.6	213.5	215.5	207.4	171.2	128.9
13390.7	70°	8700.2	2960.5	336.3	235.6	187.3	165.1	177.2	179.2	145.0	104.7
10277.2	72.5°	6378.2	1748.1	235.6	175.2	136.9	114.8	145.0	149.0	116.8	78.5
6182.8	75°	3635.2	829.7	177.2	126.9	84.6	80.6	112.8	112.8	80.6	52.4
2676.5	77.5°	1526.6	346.4	124.9	82.6	48.3	46.3	76.5	70.5	40.3	24.2
652.5	80°	441.1	155.1	66.5	40.3	20.1	18.1	30.2	22.2	10.1	4.0
247.7	82.5°	173.2	68.5	26.2	16.1	8.1	8.1	4.0	0.0	0.0	0.0
141.0	85°	102.7	28.2	12.1	6.0	2.0	0.0	0.0	0.0	0.0	0.0
30.2	87.5°	26.2	6.0	4.0	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°
3494.2
3470.0
3321.0
2896.1
2299.9
1794.4
1502.4
1299.0
1170.1
1077.5
984.8
890.2
801.6
725.0
624.3
539.7
457.2
412.9
386.7
366.5
348.4
330.3
312.2
290.0
253.8
199.4
147.0
122.9
100.7
74.5
48.3
24.2
4.0
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