

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: P942836

Luminaire Tested: **GALN-SB7A-740-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942836
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-SB7A-740-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 4000K, 350mA 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: 26470 lumens
Efficiency: N/A
Efficacy: 132.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

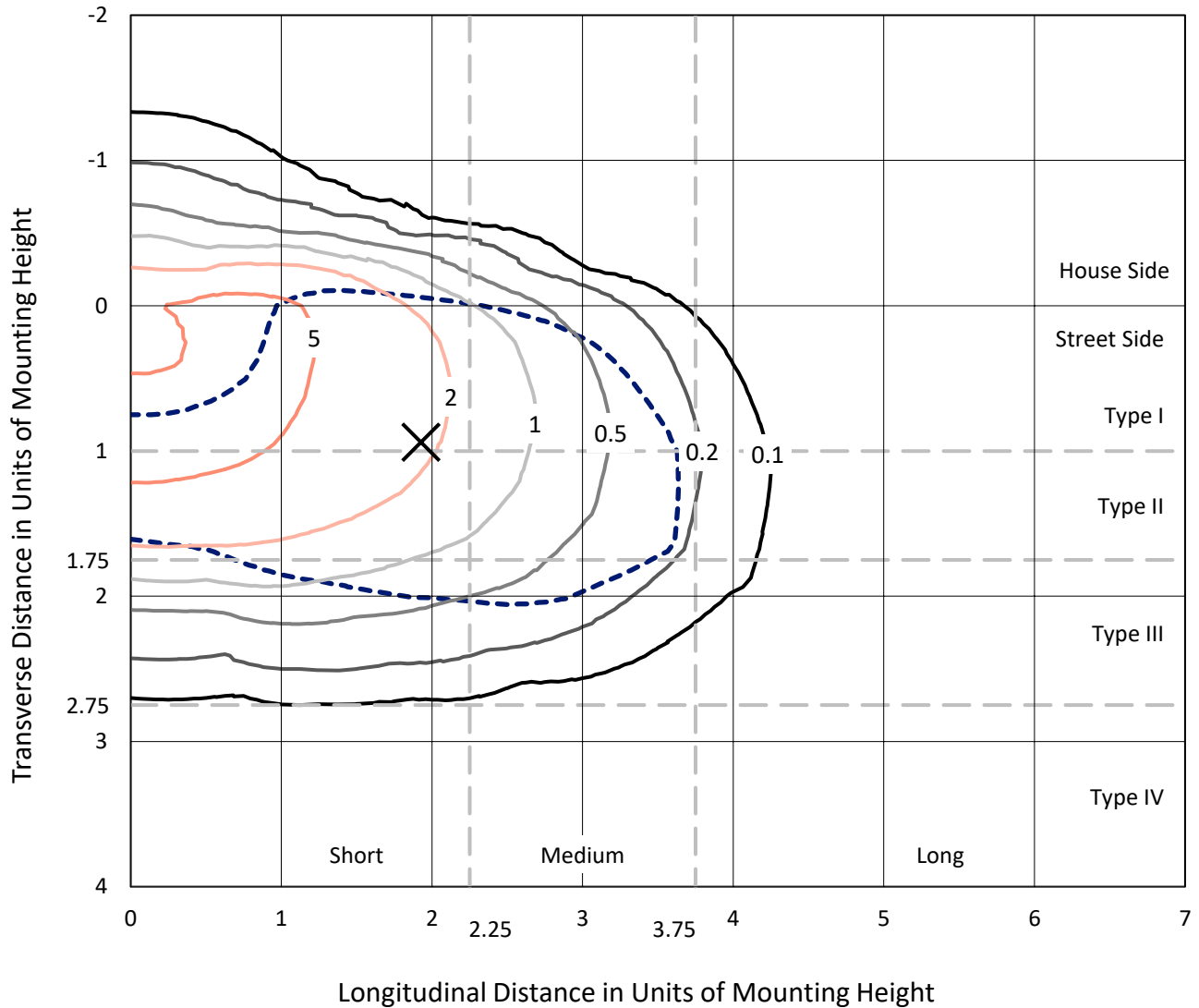
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

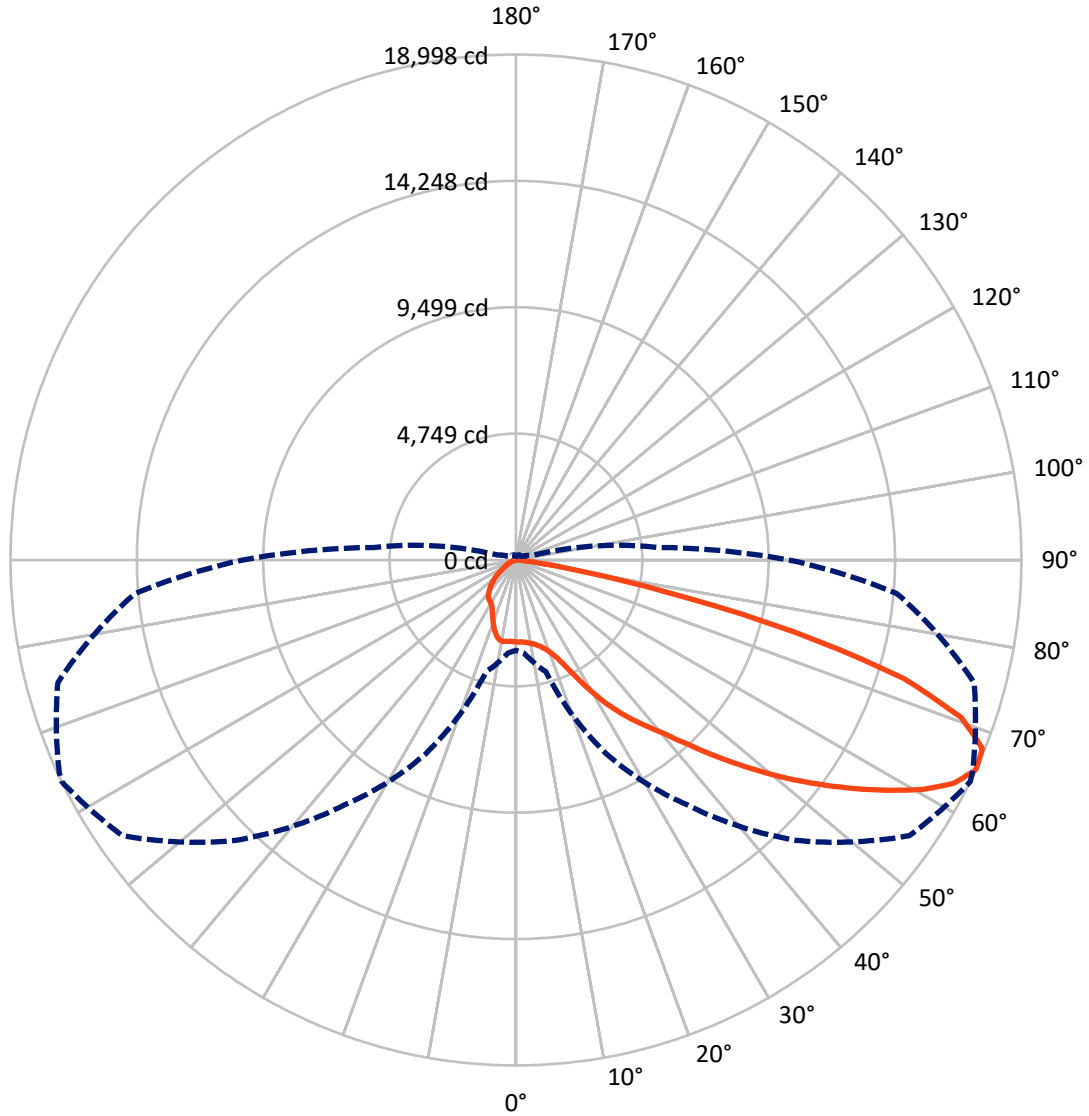
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 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	3539.8	0.0	3539.8
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	22930.2	0.0	22930.2
	% Fixture	86.6	0.0	86.6
Total	Lumens	26470.0	0.0	26470.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.0	1.1
10°-20°	770.4	2.9
20°-30°	1459.9	5.5
30°-40°	2954.1	11.2
40°-50°	5032.3	19.0
50°-60°	6843.5	25.9
60°-70°	6426.4	24.3
70°-80°	2574.7	9.7
80°-90°	124.7	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°	26470.0	100.0
0°-180°	26470.0	100.0

Coefficient of Utilization



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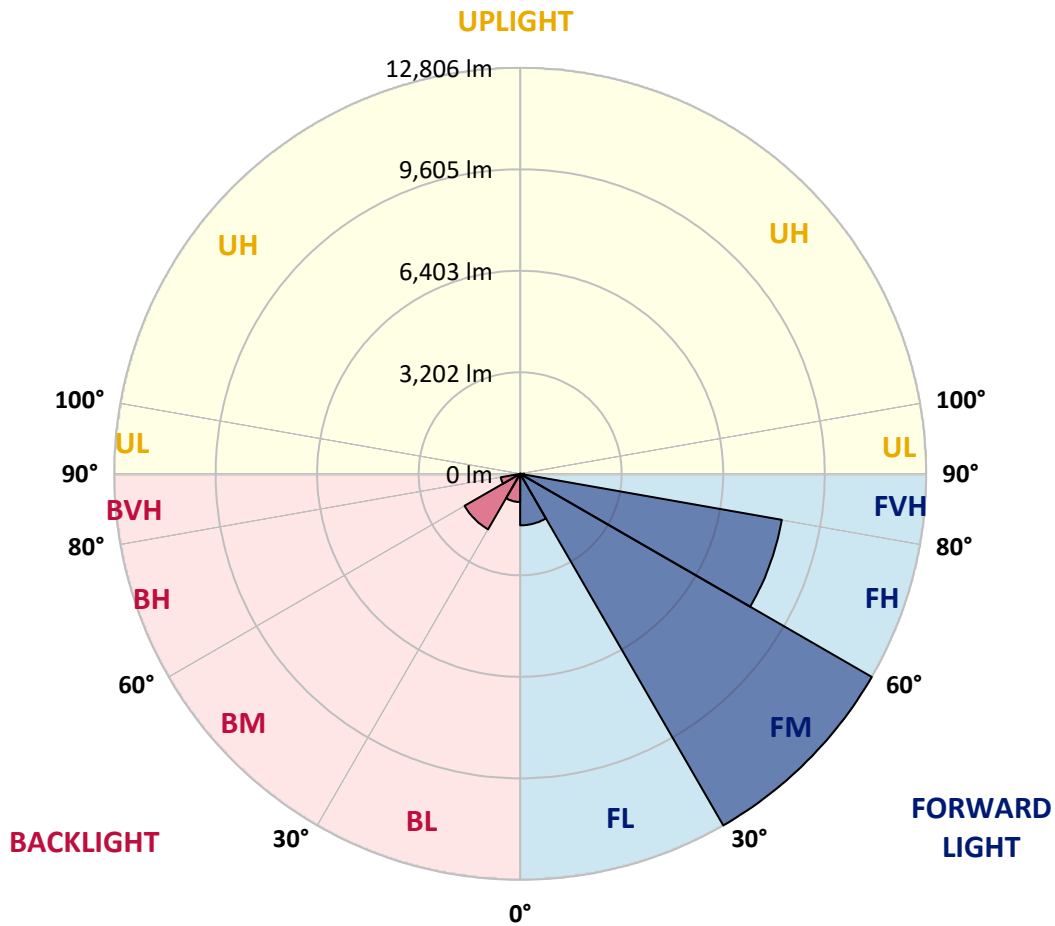
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1625.6	6.1			
FM (30°-60°)	12806.2	48.4			
FH (60°-80°)	8379.8	31.7			G4/12000
FVH (80°-90°)	118.6	0.4			G2/225
BL (0°-30°)	888.7	3.4	B2/1000		
BM (30°-60°)	2023.7	7.6	B2/2500		
BH (60°-80°)	621.3	2.3	B2/1000		G2/1000
BVH (80°-90°)	6.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	3078.7	3078.7	3078.7	3078.7	3078.7	3078.7	3078.7	3078.7	3078.7	3078.7
2.5°	3068.1	3089.4	3084.1	3078.7	3077.0	3080.5	3082.3	3080.5	3080.5	3080.5
5°	3009.5	3027.3	3027.3	3039.7	3057.4	3078.7	3094.7	3098.3	3101.8	3107.1
7.5°	2897.7	2911.9	2922.6	2963.4	3007.8	3064.5	3112.5	3137.3	3140.8	3160.4
10°	2821.4	2839.2	2856.9	2899.5	2963.4	3048.6	3130.2	3190.5	3199.4	3245.5
12.5°	2817.9	2835.6	2858.7	2904.8	2979.4	3069.9	3169.2	3256.2	3272.2	3339.6
15°	2855.2	2876.4	2897.7	2954.5	3034.4	3144.4	3250.9	3359.1	3375.1	3470.9
17.5°	2931.5	2959.8	2975.8	3032.6	3117.8	3240.2	3380.4	3504.6	3518.8	3630.6
20°	3082.3	3116.0	3121.3	3167.5	3250.9	3382.2	3549.0	3703.4	3721.1	3848.9
22.5°	3394.6	3442.5	3399.9	3423.0	3497.5	3628.8	3809.8	4005.0	4029.9	4175.4
25°	3944.7	4012.1	3902.1	3863.1	3895.0	4031.6	4258.8	4505.4	4533.8	4650.9
27.5°	5025.3	4938.4	4771.6	4608.3	4512.5	4590.6	4846.1	5151.3	5186.8	5300.4
30°	6212.5	6136.2	5910.8	5548.8	5321.7	5309.3	5545.3	5886.0	5926.8	6035.0
32.5°	7401.4	7328.6	7083.8	6638.4	6244.4	6049.2	6212.5	6590.4	6611.7	6680.9
35°	8570.8	8496.2	8251.4	7795.3	7310.9	6867.3	6835.3	7261.2	7268.3	7341.1
37.5°	9747.3	9685.2	9424.3	8977.1	8499.8	7887.6	7591.3	7896.5	7905.3	7976.3
40°	10586.6	10613.2	10434.0	10088.0	9678.1	9009.1	8439.5	8572.5	8519.3	8638.2
42.5°	11307.0	11360.3	11204.1	11030.2	10792.4	10203.3	9490.0	9466.9	9381.7	9445.6
45°	11929.9	11974.2	11834.1	11793.2	11787.9	11374.5	10638.1	10499.6	10380.8	10368.3
47.5°	12158.8	12244.0	12304.3	12440.9	12707.1	12533.2	11825.2	11610.5	11477.4	11379.8
50°	12245.7	12336.2	12542.1	12939.6	13569.5	13644.0	13007.0	12765.7	12602.4	12425.0
52.5°	12128.6	12290.1	12566.9	13235.9	14149.8	14534.8	14140.9	13929.7	13743.4	13454.2
55°	11438.3	11599.8	12165.9	13232.4	14439.0	15159.4	15212.7	15118.6	14909.2	14453.2
57.5°	9983.3	10222.8	11118.9	12781.6	14433.7	15697.1	16263.2	16330.6	16096.4	15443.4
60°	7967.4	8292.2	9385.3	11782.6	13988.3	15988.1	17184.1	17521.3	17272.9	16419.3
62.5°	5559.5	5935.7	6970.2	10217.5	12969.7	15778.7	17856.7	18479.5	18291.4	17292.4
65°	3391.0	3511.7	4345.7	8040.2	11237.8	14902.1	18064.3	18997.7	18935.6	17826.5
67.5°	2258.9	2360.1	2599.6	5513.3	8723.4	13150.7	17567.4	18907.2	18924.9	17739.6
70°	1361.0	1448.0	1604.1	3206.5	5653.5	10409.1	16028.9	17753.7	17856.7	16577.3
72.5°	560.7	619.3	761.3	1453.3	2927.9	6606.4	12763.9	15242.8	15482.4	13938.6
75°	317.6	347.8	447.2	729.3	1270.5	3078.7	7731.4	10820.8	11173.9	9607.1
77.5°	211.2	225.4	289.2	472.0	715.1	1050.5	3304.1	5637.5	6311.9	5247.2
80°	142.0	154.4	198.7	315.9	464.9	450.7	1052.3	2088.6	2569.5	1802.9
82.5°	95.8	97.6	142.0	207.6	294.6	218.3	310.5	649.5	816.3	521.7
85°	55.0	53.2	104.7	120.7	131.3	90.5	94.0	195.2	255.5	220.0
87.5°	7.1	10.6	40.8	31.9	17.7	19.5	19.5	33.7	49.7	53.2
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°
3078.7	0°	3078.7	3078.7	3078.7	3078.7	3078.7	3078.7	3078.7	3078.7	3078.7	3078.7
3082.3	2.5°	3082.3	3080.5	3075.2	3069.9	3057.4	3050.3	3053.9	3050.3	3048.6	3050.3
3105.4	5°	3105.4	3100.0	3085.8	3068.1	3043.2	3013.1	2993.6	2965.2	2938.6	2922.6
3167.5	7.5°	3167.5	3162.1	3142.6	3092.9	3013.1	2887.1	2771.7	2670.6	2594.3	2549.9
3266.8	10°	3266.8	3258.0	3227.8	3117.8	2908.4	2633.3	2404.4	2214.6	2090.3	2031.8
3383.9	12.5°	3383.9	3373.3	3320.1	3094.7	2709.6	2280.2	1964.4	1753.2	1637.9	1586.4
3518.8	15°	3522.4	3508.2	3403.5	2984.7	2420.4	1889.8	1600.6	1442.7	1368.1	1322.0
3690.9	17.5°	3694.5	3669.6	3465.6	2819.7	2106.3	1591.7	1377.0	1258.1	1192.5	1148.1
3916.3	20°	3918.1	3877.3	3515.3	2622.7	1817.1	1403.6	1226.2	1126.8	1077.1	1038.1
4235.7	22.5°	4230.4	4171.8	3575.6	2409.8	1613.0	1274.1	1114.4	1041.6	1000.8	956.4
4681.1	25°	4617.2	4548.0	3650.1	2212.8	1472.8	1162.3	1032.8	972.4	924.5	873.0
5264.9	27.5°	5158.4	5034.2	3738.8	2051.3	1352.2	1066.5	958.2	890.8	835.8	793.2
5926.8	30°	5761.8	5557.7	3816.9	1953.7	1242.1	977.7	860.6	793.2	741.7	711.6
6521.2	32.5°	6333.1	6056.3	3868.4	1911.1	1142.8	876.6	754.2	681.4	642.4	633.5
7103.3	35°	6872.6	6507.0	3863.1	1870.3	1054.0	775.5	649.5	574.9	544.8	550.1
7729.7	37.5°	7493.7	6987.9	3825.8	1806.4	981.3	683.2	559.0	493.3	466.7	468.5
8490.9	40°	8215.9	7543.3	3802.7	1685.8	901.4	598.0	484.4	431.2	411.7	404.6
9293.0	42.5°	8986.0	8081.0	3806.3	1549.1	802.1	521.7	433.0	388.6	370.9	365.5
10185.6	45°	9759.7	8593.8	3811.6	1407.2	697.4	463.1	395.7	358.4	347.8	340.7
11090.5	47.5°	10487.2	9030.4	3712.2	1254.6	594.5	418.8	365.5	340.7	331.8	323.0
11999.1	50°	11165.1	9321.4	3472.7	1077.1	512.8	383.3	342.5	324.7	315.9	307.0
12822.4	52.5°	11692.1	9367.5	3077.0	894.3	456.0	356.7	328.3	312.3	301.7	292.8
13487.9	55°	11926.3	9078.3	2514.4	724.0	411.7	333.6	314.1	298.1	285.7	276.8
14011.4	57.5°	11866.0	8469.6	1960.8	582.0	369.1	310.5	296.3	285.7	271.5	257.3
14435.5	60°	11569.7	7655.1	1478.1	484.4	330.1	285.7	276.8	267.9	248.4	227.1
14598.7	62.5°	11056.8	6631.3	1054.0	401.0	287.5	257.3	253.8	246.7	218.3	179.2
14357.4	65°	10272.5	5387.3	709.8	333.6	246.7	225.4	227.1	214.7	177.4	133.1
13473.7	67.5°	9126.2	3939.4	454.3	273.3	205.8	188.1	189.9	182.8	150.8	113.6
11798.6	70°	7665.8	2608.5	296.3	207.6	165.0	145.5	156.2	157.9	127.8	92.3
9055.2	72.5°	5619.8	1540.3	207.6	154.4	120.7	101.1	127.8	131.3	102.9	69.2
5447.7	75°	3202.9	731.1	156.2	111.8	74.5	71.0	99.4	99.4	71.0	46.1
2358.3	77.5°	1345.1	305.2	110.0	72.8	42.6	40.8	67.4	62.1	35.5	21.3
574.9	80°	388.6	136.6	58.6	35.5	17.7	16.0	26.6	19.5	8.9	3.5
218.3	82.5°	152.6	60.3	23.1	14.2	7.1	7.1	3.5	0.0	0.0	0.0
124.2	85°	90.5	24.8	10.6	5.3	1.8	0.0	0.0	0.0	0.0	0.0
26.6	87.5°	23.1	5.3	3.5	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°
3078.7
3057.4
2926.1
2551.7
2026.5
1581.1
1323.8
1144.5
1031.0
949.4
867.7
784.3
706.2
638.8
550.1
475.6
402.8
363.8
340.7
323.0
307.0
291.0
275.0
255.5
223.6
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