

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: P948986

Luminaire Tested: **GALN-SB3D-840-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948986
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3D-840-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22496 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

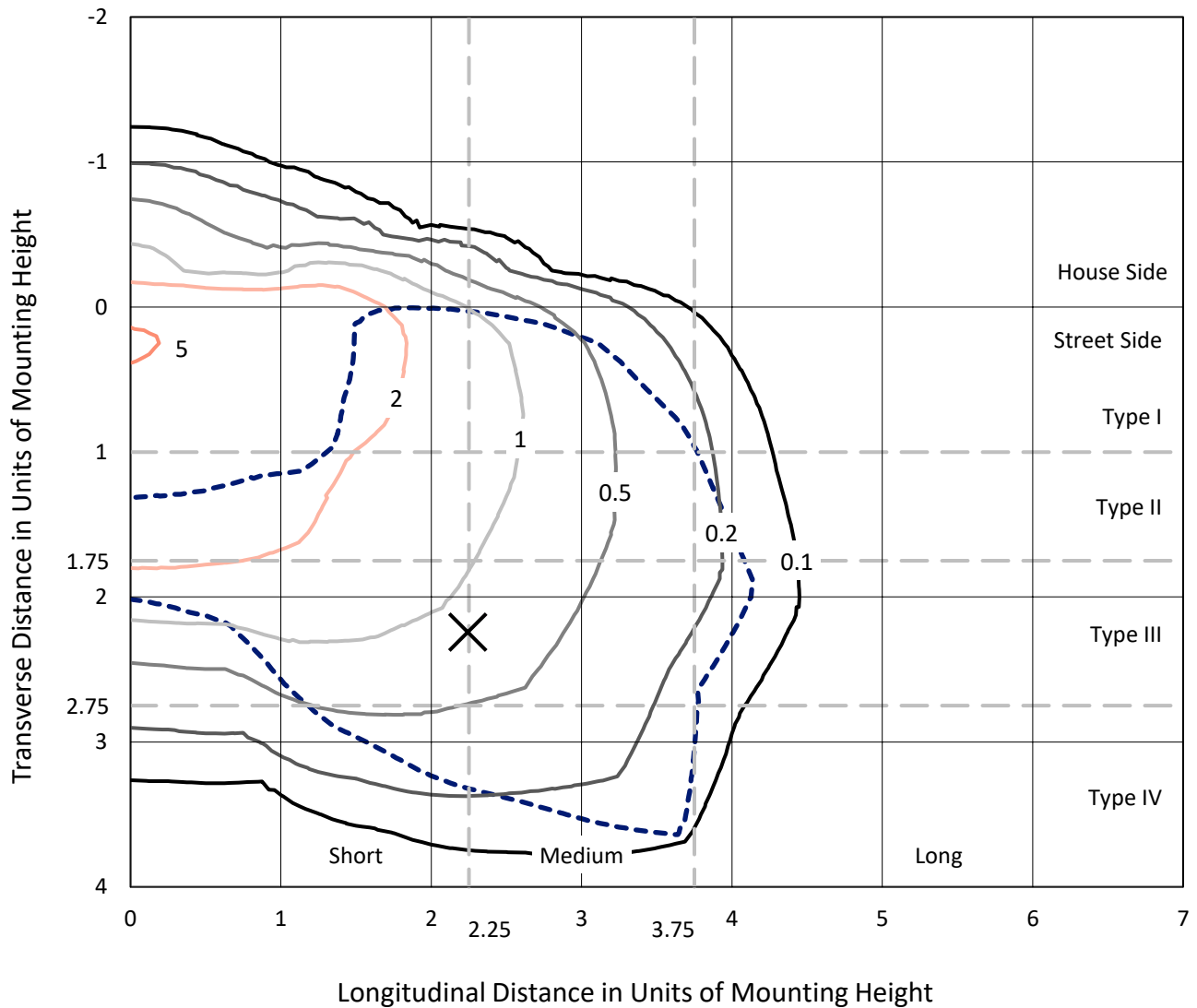
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

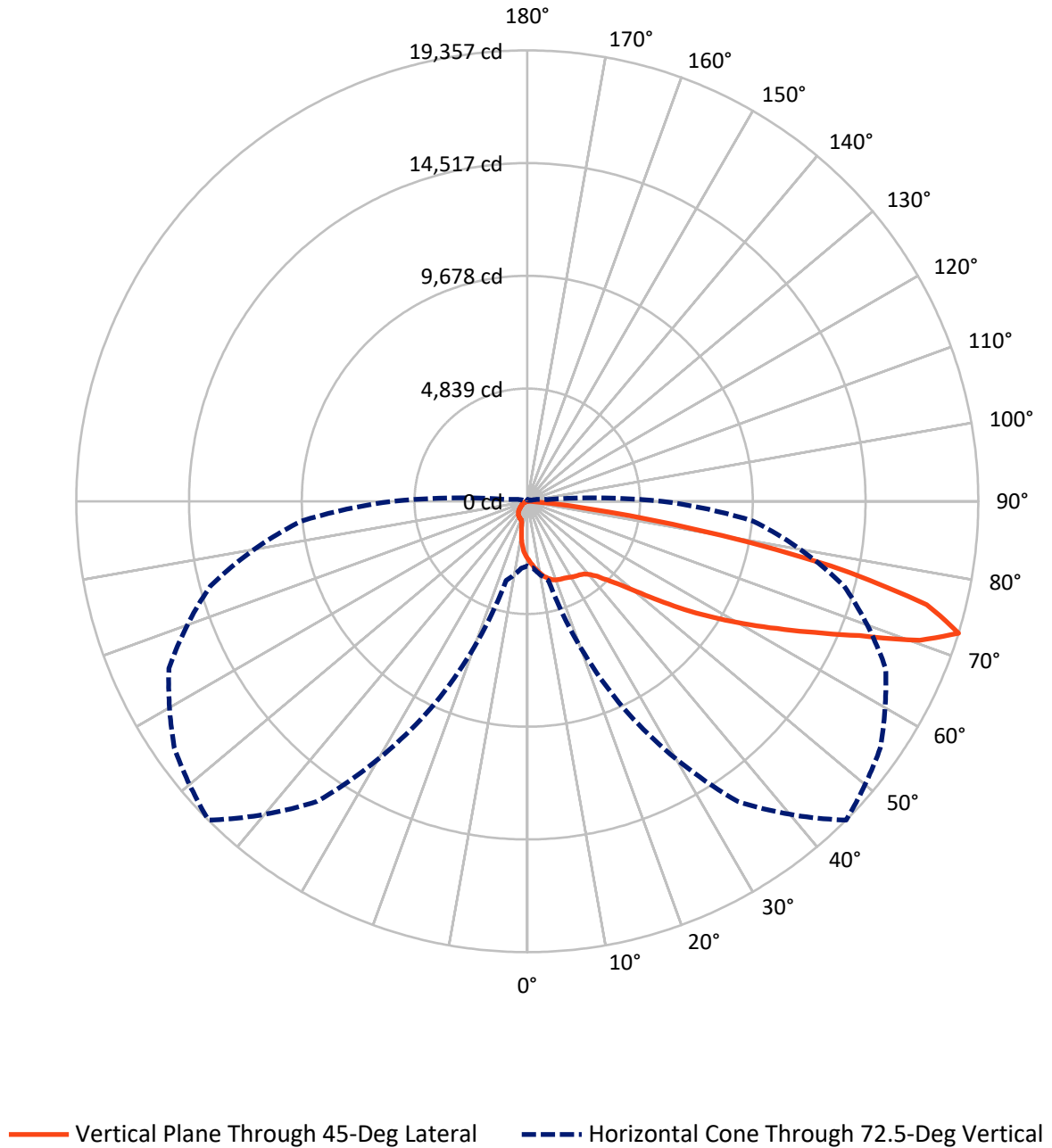
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2363.7	0.0	2363.7
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	20132.3	0.0	20132.3
	% Fixture	89.5	0.0	89.5
Total	Lumens	22496.0	0.0	22496.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.2	1.0
10°-20°	678.6	3.0
20°-30°	1114.4	5.0
30°-40°	1580.5	7.0
40°-50°	2612.4	11.6
50°-60°	4692.9	20.9
60°-70°	6516.4	29.0
70°-80°	4726.8	21.0
80°-90°	341.7	1.5
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°	22496.0	100.0
0°-180°	22496.0	100.0

Coefficient of Utilization



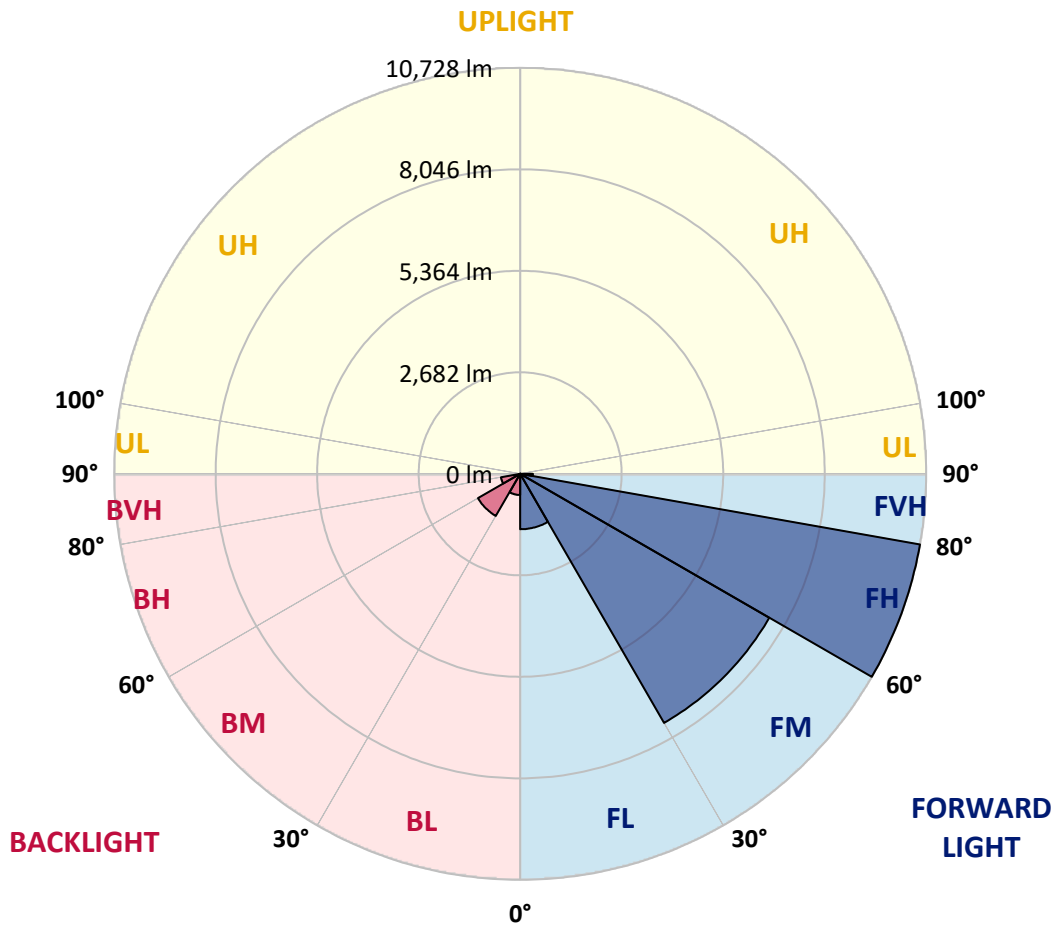
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1465.4	6.5			
FM (30°-60°)	7600.3	33.8			
FH (60°-80°)	10727.7	47.7			G4/12000
FVH (80°-90°)	338.9	1.5			G3/500
BL (0°-30°)	559.9	2.5	B2/1000		
BM (30°-60°)	1285.5	5.7	B2/2500		
BH (60°-80°)	515.4	2.3	B2/1000		G2/1000
BVH (80°-90°)	2.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	2464.5	2464.5	2464.5	2464.5	2464.5	2464.5	2464.5	2464.5	2464.5	2464.5
2.5°	2691.7	2696.3	2693.3	2674.8	2644.1	2627.2	2618.0	2587.3	2567.4	2532.0
5°	2939.0	2957.4	2946.6	2909.8	2851.4	2810.0	2797.7	2734.7	2677.9	2611.9
7.5°	3201.5	3210.7	3190.8	3143.2	3064.9	2994.2	2983.5	2896.0	2805.4	2704.0
10°	3428.8	3439.5	3408.8	3339.7	3250.7	3163.1	3147.8	3051.0	2943.6	2819.2
12.5°	3619.2	3629.9	3590.0	3507.1	3408.8	3318.2	3302.9	3201.5	3083.3	2945.1
15°	3763.5	3783.5	3729.7	3640.7	3534.7	3444.1	3436.5	3336.7	3221.5	3067.9
17.5°	3848.0	3867.9	3817.3	3709.8	3619.2	3542.4	3533.2	3450.3	3342.8	3195.4
20°	3861.8	3880.2	3826.5	3732.8	3657.6	3596.2	3591.5	3531.7	3453.3	3312.1
22.5°	3820.3	3843.4	3794.2	3719.0	3666.8	3634.5	3628.4	3594.6	3550.1	3430.3
25°	3777.3	3795.8	3758.9	3692.9	3665.2	3662.2	3666.8	3660.6	3651.4	3550.1
27.5°	3774.3	3794.2	3752.8	3689.8	3674.5	3706.7	3711.3	3740.5	3748.2	3659.1
30°	3800.4	3814.2	3774.3	3708.2	3700.6	3774.3	3775.8	3828.0	3840.3	3751.2
32.5°	3857.2	3872.5	3832.6	3735.9	3725.1	3828.0	3832.6	3901.7	3921.7	3849.5
35°	3990.8	4009.2	3963.1	3812.7	3774.3	3878.7	3892.5	3973.9	4013.8	3953.9
37.5°	4324.0	4270.2	4207.3	3967.7	3886.4	3958.5	3981.6	4076.8	4147.4	4078.3
40°	5151.6	4982.7	4786.2	4231.9	4082.9	4129.0	4147.4	4242.6	4339.3	4271.8
42.5°	6393.8	6194.2	5877.9	4839.9	4379.3	4402.3	4416.1	4499.0	4635.7	4581.9
45°	7500.9	7428.8	7106.3	5877.9	4933.6	4819.9	4836.8	4879.8	5081.0	5061.0
47.5°	8351.6	8310.2	8061.4	7069.5	5870.2	5331.3	5378.9	5398.8	5689.0	5759.7
50°	9005.7	8990.4	8767.7	8129.0	7094.0	6085.2	6102.1	6059.1	6493.6	6668.7
52.5°	9623.0	9675.2	9510.9	9113.2	8400.7	7072.5	7069.5	6866.8	7453.3	7717.4
55°	10180.4	10198.8	10215.7	10117.4	9715.1	8196.5	8167.3	7835.7	8566.6	8839.9
57.5°	10704.0	10711.7	10862.2	11063.3	11083.3	9403.4	9349.7	8952.0	9782.7	9977.7
60°	11055.6	11090.9	11408.8	11967.7	12211.9	10648.7	10619.5	10214.2	11020.3	11110.9
62.5°	10548.9	10763.9	11565.4	12674.1	13277.5	12029.1	12015.3	11634.5	12322.4	12248.7
65°	8538.9	8902.9	10312.4	13151.6	14323.2	13570.8	13590.7	13185.4	13659.8	13420.3
67.5°	5973.1	6357.0	8024.5	13190.0	15491.7	15381.1	15496.3	14860.6	15080.2	14542.8
70°	4130.5	4328.6	5414.2	12363.9	16402.3	17874.8	17871.7	16918.2	16492.9	15054.1
72.5°	2777.7	2880.6	3516.3	9808.8	15732.8	19356.6	19267.5	18490.5	16968.9	14079.0
75°	1171.6	1246.8	1627.6	5512.5	12446.8	17709.0	17467.9	16340.8	15077.1	11086.3
77.5°	371.6	403.8	641.8	1973.1	6856.0	13311.3	13056.4	10205.0	10105.2	5561.6
80°	176.6	205.8	360.8	792.3	2697.9	7239.9	7204.6	4629.5	4347.0	1501.7
82.5°	76.8	90.6	199.6	423.8	1206.9	2582.7	2634.9	1575.4	1303.6	569.7
85°	24.6	32.2	92.1	195.0	509.8	641.8	634.2	374.7	525.1	310.2
87.5°	0.0	0.0	30.7	44.5	52.2	36.9	41.5	32.2	145.9	86.0
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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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2464.5	0°	2464.5	2464.5	2464.5	2464.5	2464.5	2464.5	2464.5	2464.5	2464.5	2464.5
2495.2	2.5°	2476.8	2452.2	2409.2	2369.3	2334.0	2298.7	2277.2	2246.4	2243.4	2243.4
2535.1	5°	2493.7	2453.7	2377.0	2295.6	2201.9	2112.9	2023.8	1937.8	1910.2	1890.2
2599.6	7.5°	2542.8	2479.8	2358.5	2203.4	2025.3	1830.3	1693.7	1546.3	1489.4	1458.7
2685.6	10°	2613.4	2527.4	2343.2	2071.4	1782.7	1517.1	1322.1	1162.4	1101.0	1074.9
2779.3	12.5°	2691.7	2585.8	2315.5	1907.1	1517.1	1199.2	1008.8	935.1	925.9	925.9
2891.4	15°	2785.4	2656.4	2267.9	1713.6	1239.2	948.9	881.4	884.5	893.7	899.8
3000.4	17.5°	2882.1	2731.7	2192.7	1497.1	993.5	853.7	855.3	859.9	867.6	873.7
3118.6	20°	2986.6	2806.9	2092.9	1266.8	852.2	826.1	830.7	835.3	841.5	844.5
3229.2	22.5°	3098.6	2877.5	1974.7	1041.1	804.6	803.1	804.6	809.2	816.9	816.9
3358.1	25°	3218.4	2955.8	1839.5	876.8	780.0	780.0	783.1	786.2	792.3	792.3
3482.5	27.5°	3341.3	3028.0	1696.7	790.8	758.5	757.0	757.0	761.6	764.7	766.2
3605.4	30°	3476.4	3112.5	1553.9	772.4	741.6	734.0	729.4	732.4	735.5	737.0
3734.3	32.5°	3614.6	3193.8	1426.5	780.0	724.8	710.9	695.6	692.5	692.5	698.7
3867.9	35°	3768.1	3282.9	1328.2	806.1	715.5	677.2	652.6	638.8	640.3	649.5
4027.6	37.5°	3952.4	3390.4	1256.0	829.2	709.4	638.8	598.8	582.0	571.2	582.0
4247.2	40°	4193.5	3548.6	1203.8	847.6	701.7	594.2	540.5	512.9	492.9	499.0
4588.1	42.5°	4548.2	3797.3	1183.9	849.1	684.8	542.0	480.6	443.8	414.6	416.1
5100.9	45°	5045.7	4190.4	1286.8	829.2	648.0	485.2	417.7	368.5	350.1	345.5
5867.2	47.5°	5727.4	4763.1	1524.8	787.7	594.2	429.9	356.2	314.8	301.0	293.3
6872.9	50°	6641.1	5498.6	1788.9	741.6	540.5	377.7	305.6	279.5	270.2	262.6
8066.0	52.5°	7700.6	6244.9	2005.4	695.6	486.8	331.7	273.3	258.0	250.3	244.1
9217.6	55°	8672.5	6759.3	1993.1	646.4	434.5	294.8	250.3	241.1	231.9	225.7
10209.6	57.5°	9277.5	6831.5	1643.0	592.7	374.7	265.6	228.8	222.6	211.9	204.2
11067.9	60°	9555.4	6419.9	1151.6	522.1	314.8	238.0	205.8	202.7	188.9	178.1
11880.2	62.5°	9606.1	5655.3	767.8	434.5	262.6	211.9	182.7	178.1	159.7	141.3
12540.5	65°	9400.4	4562.0	531.3	339.3	224.2	184.3	156.6	147.4	127.4	109.0
12697.1	67.5°	8749.3	3203.1	370.1	244.1	190.4	145.9	124.4	121.3	105.9	90.6
11898.6	70°	7556.2	1825.7	247.2	182.7	150.5	99.8	98.3	101.3	86.0	73.7
9721.3	72.5°	5793.5	835.3	153.6	133.6	102.9	67.6	78.3	79.8	66.0	55.3
6065.2	75°	3410.4	357.8	96.7	86.0	52.2	44.5	56.8	58.3	44.5	35.3
2217.3	77.5°	1160.8	135.1	61.4	50.7	26.1	24.6	36.9	36.9	24.6	13.8
445.3	80°	264.1	50.7	30.7	20.0	12.3	10.7	12.3	10.7	6.1	1.5
136.7	82.5°	75.2	20.0	12.3	7.7	4.6	4.6	1.5	0.0	0.0	0.0
47.6	85°	21.5	9.2	3.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0
16.9	87.5°	9.2	1.5	0.0	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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<u>180°</u>
2464.5
2251.0
1899.4
1463.3
1074.9
925.9
899.8
873.7
846.1
820.0
793.9
767.8
740.1
703.3
654.1
578.9
496.0
410.0
339.3
288.7
261.0
242.6
222.6
202.7
175.0
132.1
102.9
86.0
67.6
49.1
30.7
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