

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: P951086

Luminaire Tested: **GALN-SB5B-830-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951086
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-SB5B-830-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 450mA 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: 19688 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

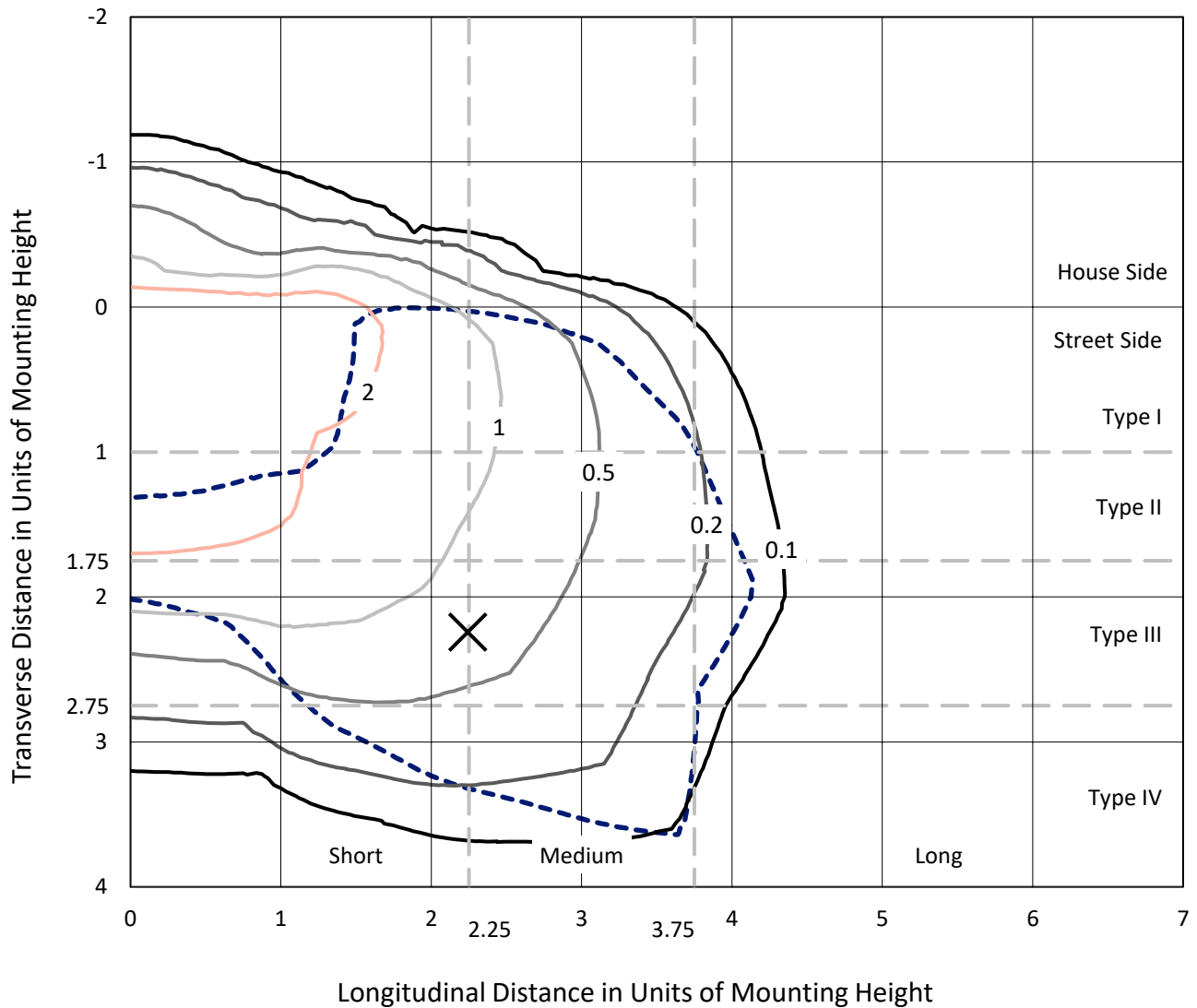
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

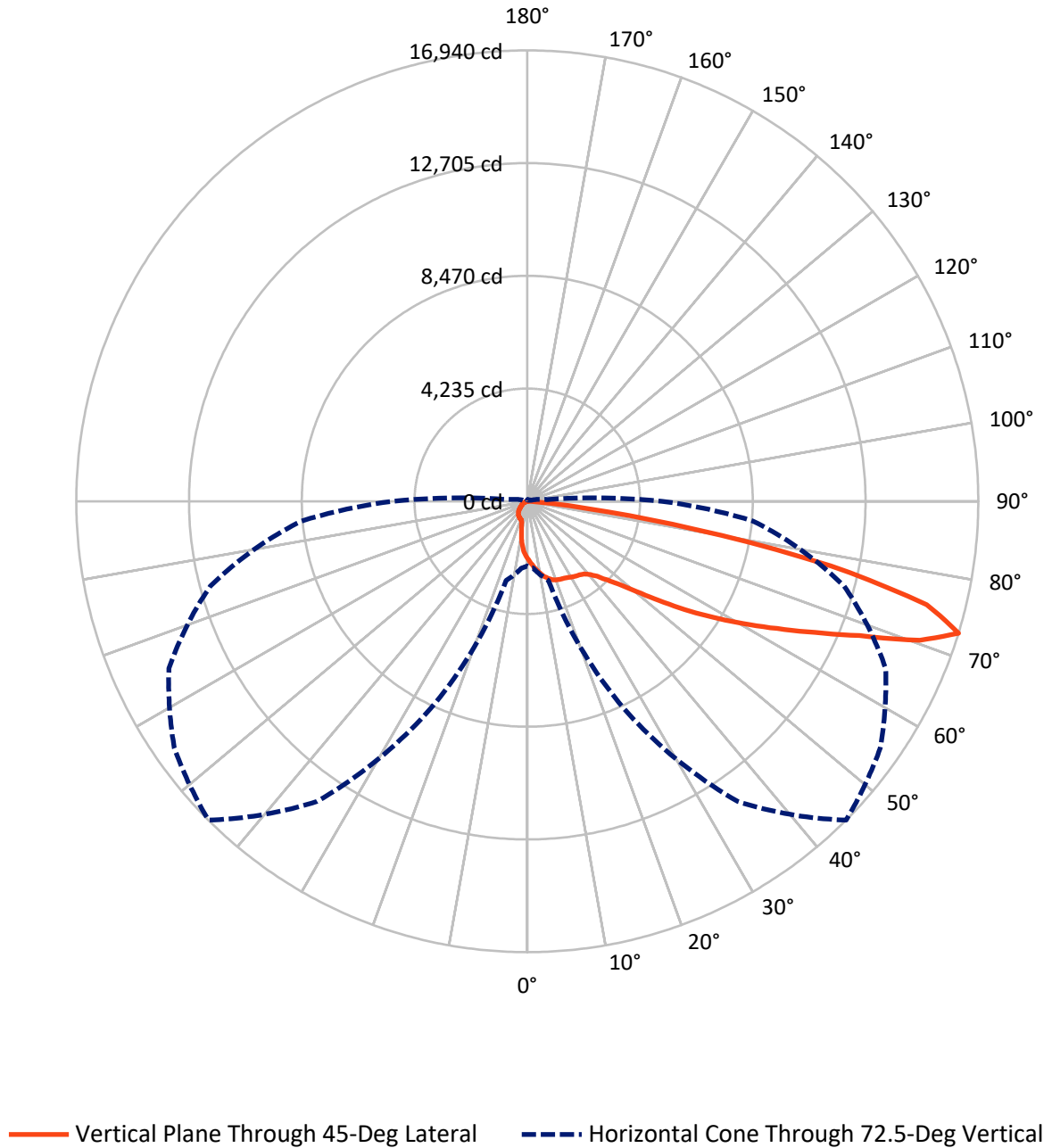
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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	2068.7	0.0	2068.7
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	17619.3	0.0	17619.3
	% Fixture	89.5	0.0	89.5
Total	Lumens	19688.0	0.0	19688.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.2	1.0
10°-20°	593.9	3.0
20°-30°	975.3	5.0
30°-40°	1383.2	7.0
40°-50°	2286.3	11.6
50°-60°	4107.1	20.9
60°-70°	5703.0	29.0
70°-80°	4136.8	21.0
80°-90°	299.1	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°	19688.0	100.0
0°-180°	19688.0	100.0

Coefficient of Utilization



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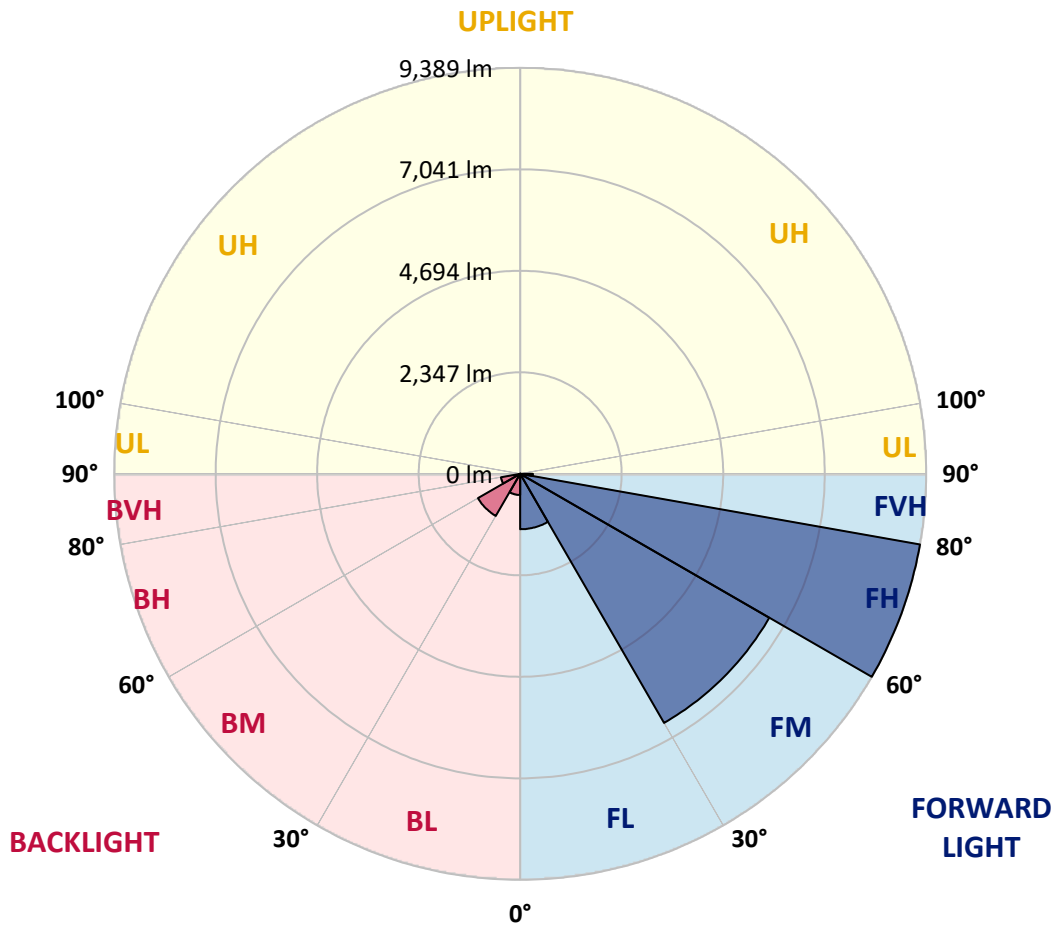
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1282.5	6.5			
FM (30°-60°)	6651.7	33.8			
FH (60°-80°)	9388.6	47.7			G4/12000
FVH (80°-90°)	296.6	1.5			G3/500
BL (0°-30°)	490.0	2.5	B1/500		
BM (30°-60°)	1125.1	5.7	B2/2500		
BH (60°-80°)	451.1	2.3	B1/500		G1/500
BVH (80°-90°)	2.5	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°	2156.9	2156.9	2156.9	2156.9	2156.9	2156.9	2156.9	2156.9	2156.9	2156.9
2.5°	2355.8	2359.8	2357.1	2341.0	2314.1	2299.3	2291.2	2264.4	2246.9	2216.0
5°	2572.1	2588.2	2578.8	2546.6	2495.5	2459.2	2448.5	2393.4	2343.7	2285.9
7.5°	2801.9	2810.0	2792.5	2750.8	2682.3	2620.5	2611.1	2534.5	2455.2	2366.5
10°	3000.8	3010.2	2983.3	2922.9	2844.9	2768.3	2754.9	2670.2	2576.1	2467.3
12.5°	3167.4	3176.8	3141.9	3069.3	2983.3	2904.0	2890.6	2801.9	2698.4	2577.5
15°	3293.8	3311.2	3264.2	3186.2	3093.5	3014.2	3007.5	2920.2	2819.4	2685.0
17.5°	3367.7	3385.1	3340.8	3246.7	3167.4	3100.2	3092.2	3019.6	2925.5	2796.5
20°	3379.8	3395.9	3348.8	3266.9	3201.0	3147.3	3143.2	3090.8	3022.3	2898.7
22.5°	3343.5	3363.6	3320.6	3254.8	3209.1	3180.9	3175.5	3145.9	3107.0	3002.1
25°	3305.8	3322.0	3289.7	3231.9	3207.7	3205.1	3209.1	3203.7	3195.7	3107.0
27.5°	3303.2	3320.6	3284.3	3229.2	3215.8	3244.0	3248.1	3273.6	3280.3	3202.4
30°	3326.0	3338.1	3303.2	3245.4	3238.7	3303.2	3304.5	3350.2	3360.9	3283.0
32.5°	3375.7	3389.2	3354.2	3269.6	3260.2	3350.2	3354.2	3414.7	3432.2	3369.0
35°	3492.6	3508.8	3468.4	3336.8	3303.2	3394.5	3406.6	3477.9	3512.8	3460.4
37.5°	3784.3	3737.2	3682.1	3472.5	3401.3	3464.4	3484.6	3567.9	3629.7	3569.2
40°	4508.6	4360.8	4188.7	3703.6	3573.3	3613.6	3629.7	3713.0	3797.7	3738.6
42.5°	5595.7	5421.0	5144.2	4235.8	3832.6	3852.8	3864.9	3937.4	4057.1	4010.0
45°	6564.7	6501.5	6219.3	5144.2	4317.8	4218.3	4233.1	4270.7	4446.8	4429.3
47.5°	7309.1	7272.9	7055.2	6187.0	5137.5	4665.8	4707.5	4724.9	4978.9	5040.7
50°	7881.6	7868.2	7673.3	7114.3	6208.5	5325.6	5340.4	5302.8	5683.1	5836.3
52.5°	8421.8	8467.5	8323.7	7975.7	7352.1	6189.7	6187.0	6009.6	6523.0	6754.1
55°	8909.7	8925.8	8940.6	8854.6	8502.5	7173.4	7147.9	6857.6	7497.3	7736.5
57.5°	9367.9	9374.6	9506.3	9682.4	9699.8	8229.7	8182.6	7834.6	8561.6	8732.3
60°	9675.6	9706.6	9984.7	10473.9	10687.6	9319.5	9294.0	8939.2	9644.7	9724.0
62.5°	9232.2	9420.3	10121.8	11092.1	11620.2	10527.6	10515.5	10182.3	10784.3	10719.8
65°	7473.1	7791.6	9025.2	11510.0	12535.3	11876.9	11894.3	11539.5	11954.8	11745.2
67.5°	5227.5	5563.5	7022.9	11543.6	13558.0	13461.2	13562.0	13005.7	13197.8	12727.5
70°	3614.9	3788.3	4738.4	10820.6	14354.9	15643.6	15640.9	14806.4	14434.2	13175.0
72.5°	2431.0	2521.0	3077.4	8584.4	13769.0	16940.4	16862.5	16182.5	14850.8	12321.7
75°	1025.3	1091.2	1424.5	4824.4	10893.2	15498.5	15287.5	14301.1	13195.2	9702.5
77.5°	325.2	353.4	561.7	1726.8	6000.2	11649.7	11426.7	8931.2	8843.8	4867.4
80°	154.5	180.1	315.8	693.4	2361.1	6336.2	6305.3	4051.7	3804.4	1314.3
82.5°	67.2	79.3	174.7	370.9	1056.3	2260.3	2306.0	1378.8	1140.9	498.6
85°	21.5	28.2	80.6	170.7	446.2	561.7	555.0	327.9	459.6	271.5
87.5°	0.0	0.0	26.9	39.0	45.7	32.3	36.3	28.2	127.7	75.3
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°
2156.9	0°	2156.9	2156.9	2156.9	2156.9	2156.9	2156.9	2156.9	2156.9	2156.9	2156.9
2183.7	2.5°	2167.6	2146.1	2108.5	2073.5	2042.6	2011.7	1992.9	1966.0	1963.3	1963.3
2218.7	5°	2182.4	2147.5	2080.3	2009.0	1927.1	1849.1	1771.2	1695.9	1671.7	1654.3
2275.1	7.5°	2225.4	2170.3	2064.1	1928.4	1772.5	1601.9	1482.3	1353.2	1303.5	1276.6
2350.4	10°	2287.2	2212.0	2050.7	1812.8	1560.2	1327.7	1157.0	1017.3	963.5	940.7
2432.3	12.5°	2355.8	2263.0	2026.5	1669.0	1327.7	1049.5	882.9	818.4	810.3	810.3
2530.4	15°	2437.7	2324.8	1984.9	1499.7	1084.5	830.5	771.4	774.1	782.1	787.5
2625.9	17.5°	2522.4	2390.7	1919.0	1310.2	869.5	747.2	748.5	752.6	759.3	764.6
2729.3	20°	2613.8	2456.5	1831.7	1108.7	745.8	723.0	727.0	731.0	736.4	739.1
2826.1	22.5°	2711.9	2518.4	1728.2	911.1	704.2	702.8	704.2	708.2	714.9	714.9
2939.0	25°	2816.7	2586.9	1609.9	767.3	682.7	682.7	685.4	688.0	693.4	693.4
3047.8	27.5°	2924.2	2650.1	1484.9	692.1	663.9	662.5	662.5	666.5	669.2	670.6
3155.3	30°	3042.5	2724.0	1360.0	676.0	649.1	642.4	638.3	641.0	643.7	645.0
3268.2	32.5°	3163.4	2795.2	1248.4	682.7	634.3	622.2	608.8	606.1	606.1	611.4
3385.1	35°	3297.8	2873.1	1162.4	705.5	626.2	592.6	571.1	559.0	560.4	568.4
3524.9	37.5°	3459.0	2967.2	1099.3	725.7	620.9	559.0	524.1	509.3	499.9	509.3
3717.1	40°	3670.0	3105.6	1053.6	741.8	614.1	520.1	473.0	448.8	431.4	436.7
4015.4	42.5°	3980.5	3323.3	1036.1	743.1	599.4	474.4	420.6	388.4	362.8	364.2
4464.2	45°	4415.9	3667.3	1126.1	725.7	567.1	424.7	365.5	322.5	306.4	302.4
5134.8	47.5°	5012.5	4168.6	1334.4	689.4	520.1	376.3	311.8	275.5	263.4	256.7
6015.0	50°	5812.1	4812.3	1565.6	649.1	473.0	330.6	267.4	244.6	236.5	229.8
7059.2	52.5°	6739.4	5465.4	1755.1	608.8	426.0	290.3	239.2	225.8	219.0	213.7
8067.1	55°	7590.0	5915.6	1744.3	565.8	380.3	258.0	219.0	211.0	202.9	197.5
8935.2	57.5°	8119.5	5978.7	1437.9	518.7	327.9	232.5	200.2	194.9	185.4	178.7
9686.4	60°	8362.7	5618.6	1007.9	456.9	275.5	208.3	180.1	177.4	165.3	155.9
10397.3	62.5°	8407.1	4949.4	671.9	380.3	229.8	185.4	159.9	155.9	139.8	123.6
10975.1	65°	8227.0	3992.5	465.0	297.0	196.2	161.3	137.1	129.0	111.5	95.4
11112.2	67.5°	7657.2	2803.2	323.9	213.7	166.6	127.7	108.9	106.2	92.7	79.3
10413.4	70°	6613.0	1597.8	216.4	159.9	131.7	87.3	86.0	88.7	75.3	64.5
8507.8	72.5°	5070.3	731.0	134.4	116.9	90.0	59.1	68.5	69.9	57.8	48.4
5308.2	75°	2984.7	313.1	84.7	75.3	45.7	39.0	49.7	51.1	39.0	30.9
1940.5	77.5°	1015.9	118.3	53.8	44.3	22.8	21.5	32.3	32.3	21.5	12.1
389.7	80°	231.1	44.3	26.9	17.5	10.8	9.4	10.8	9.4	5.4	1.3
119.6	82.5°	65.8	17.5	10.8	6.7	4.0	4.0	1.3	0.0	0.0	0.0
41.7	85°	18.8	8.1	2.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0
14.8	87.5°	8.1	1.3	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>
2156.9
1970.1
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787.5
764.6
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694.8
671.9
647.7
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