

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: P942438

Luminaire Tested: **GALN-SB6B-940-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942438
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6B-940-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18735 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

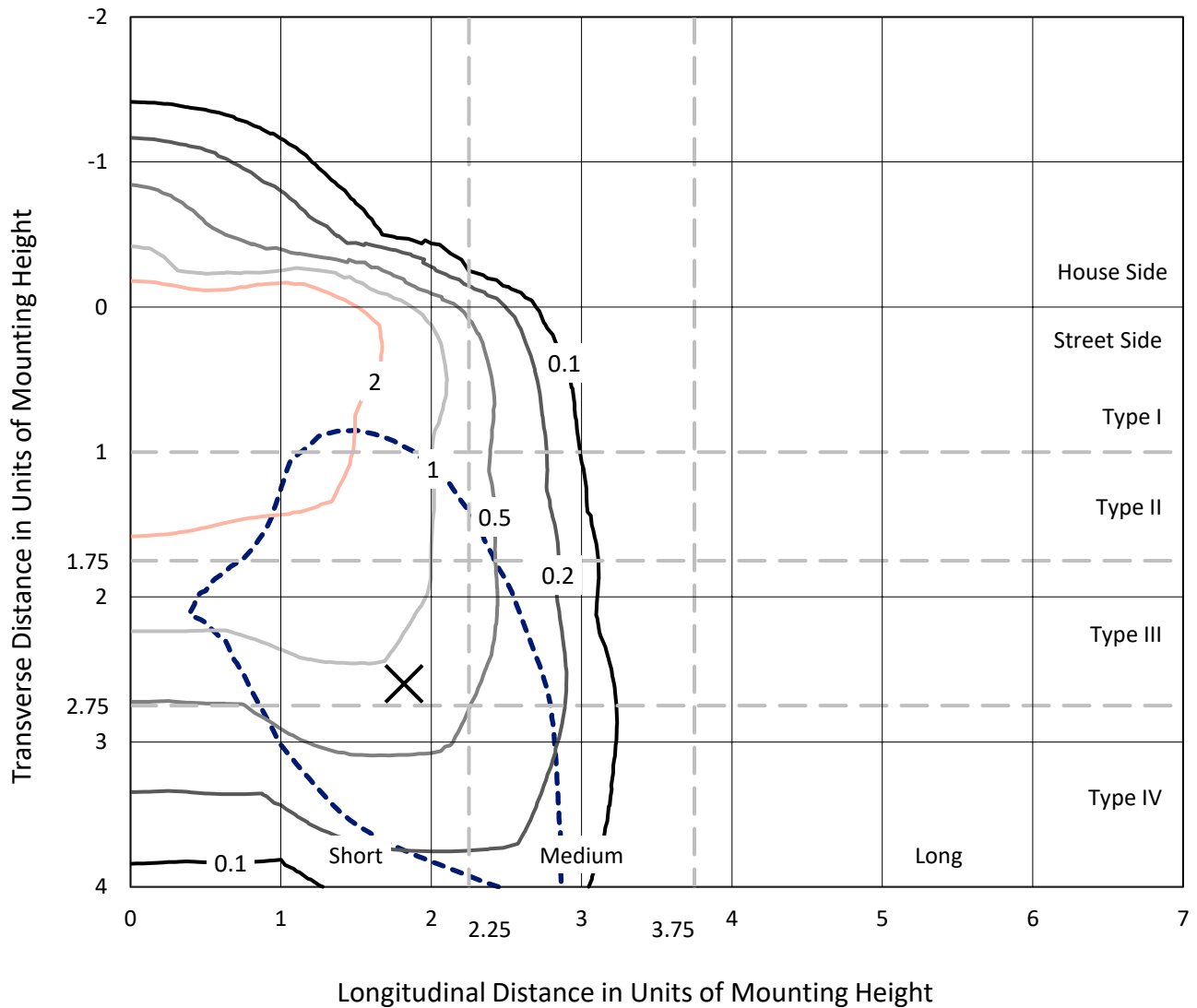
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P942438
 CATALOG NUMBER: GALN-SB6B-940-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

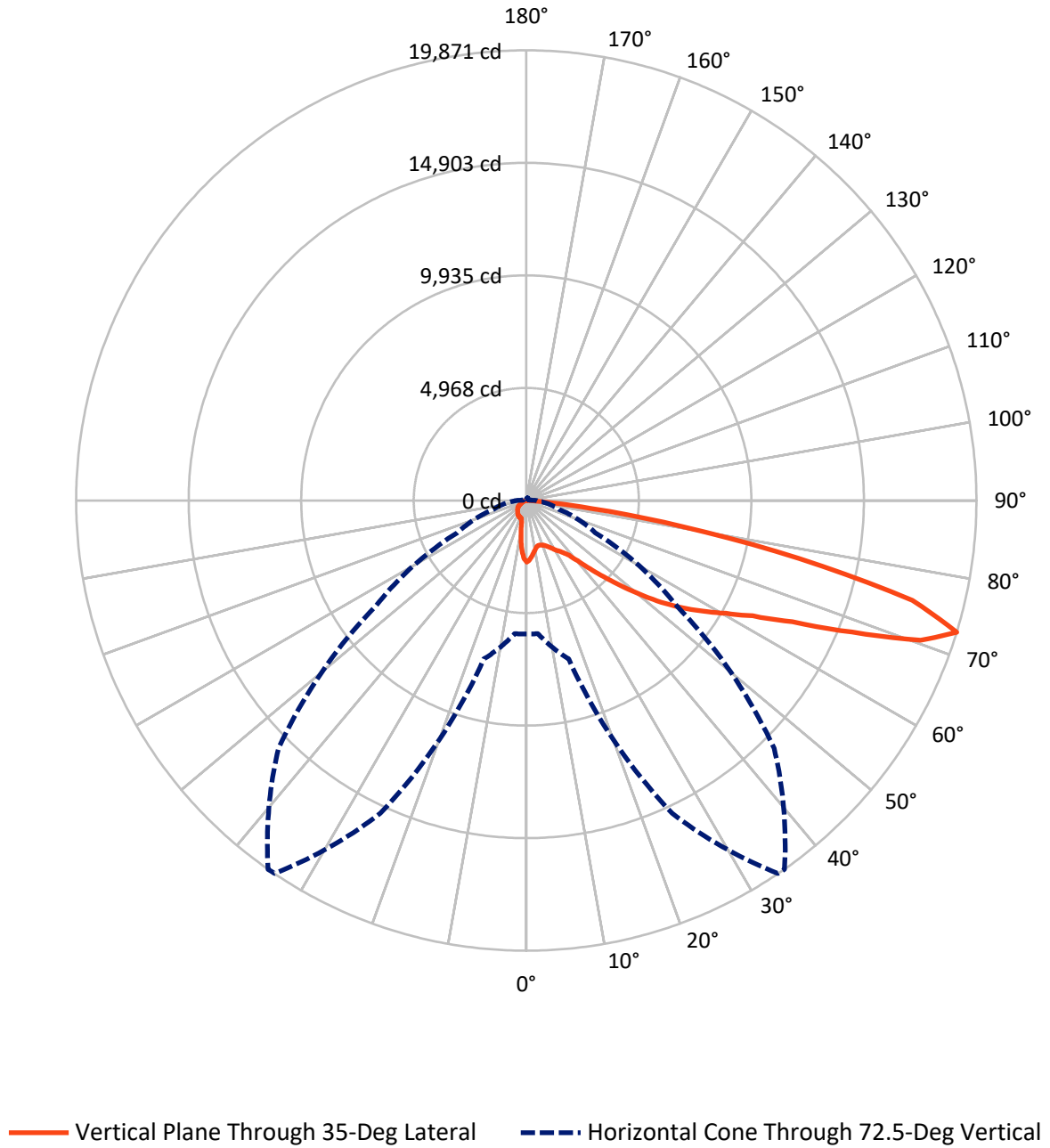
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type IV - Short - N/A

REPORT NUMBER: P942438
CATALOG NUMBER: GALN-SB6B-940-U-T4FT-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P942438

CATALOG NUMBER: GALN-SB6B-940-U-T4FT-HSS

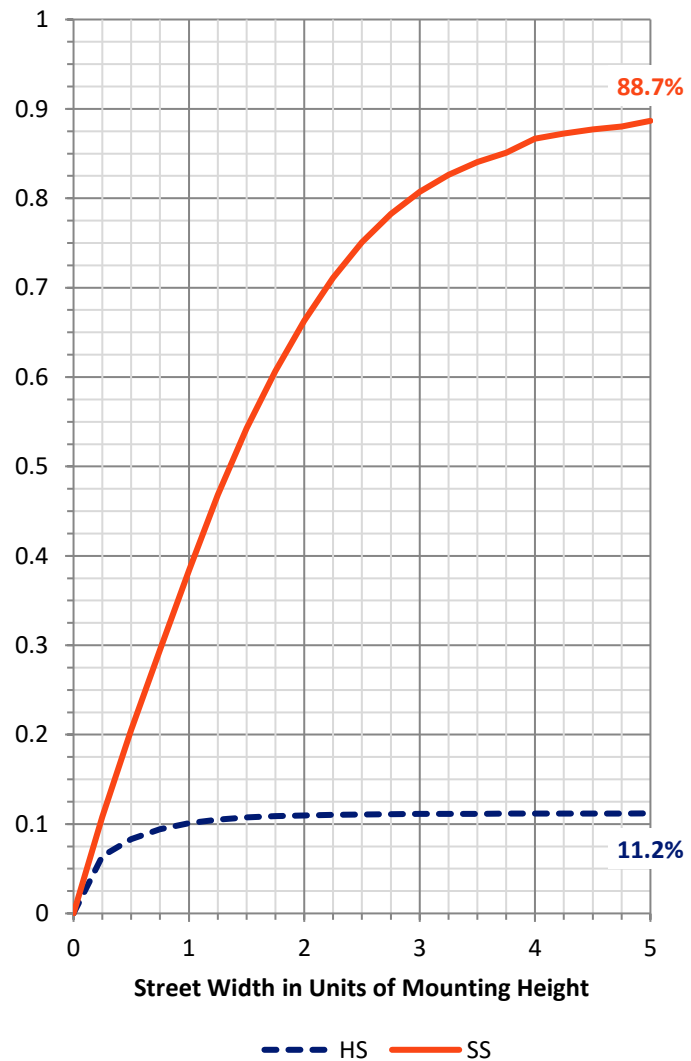
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2108.5	0.0	2108.5
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	16626.5	0.0	16626.5
	% Fixture	88.7	0.0	88.7
Total	Lumens	18735.0	0.0	18735.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.1	1.2
10°-20°	522.0	2.8
20°-30°	847.9	4.5
30°-40°	1414.8	7.6
40°-50°	2676.8	14.3
50°-60°	4253.4	22.7
60°-70°	5261.8	28.1
70°-80°	3270.8	17.5
80°-90°	264.3	1.4
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°	18735.0	100.0
0°-180°	18735.0	100.0

Coefficient of Utilization



REPORT NUMBER: P942438

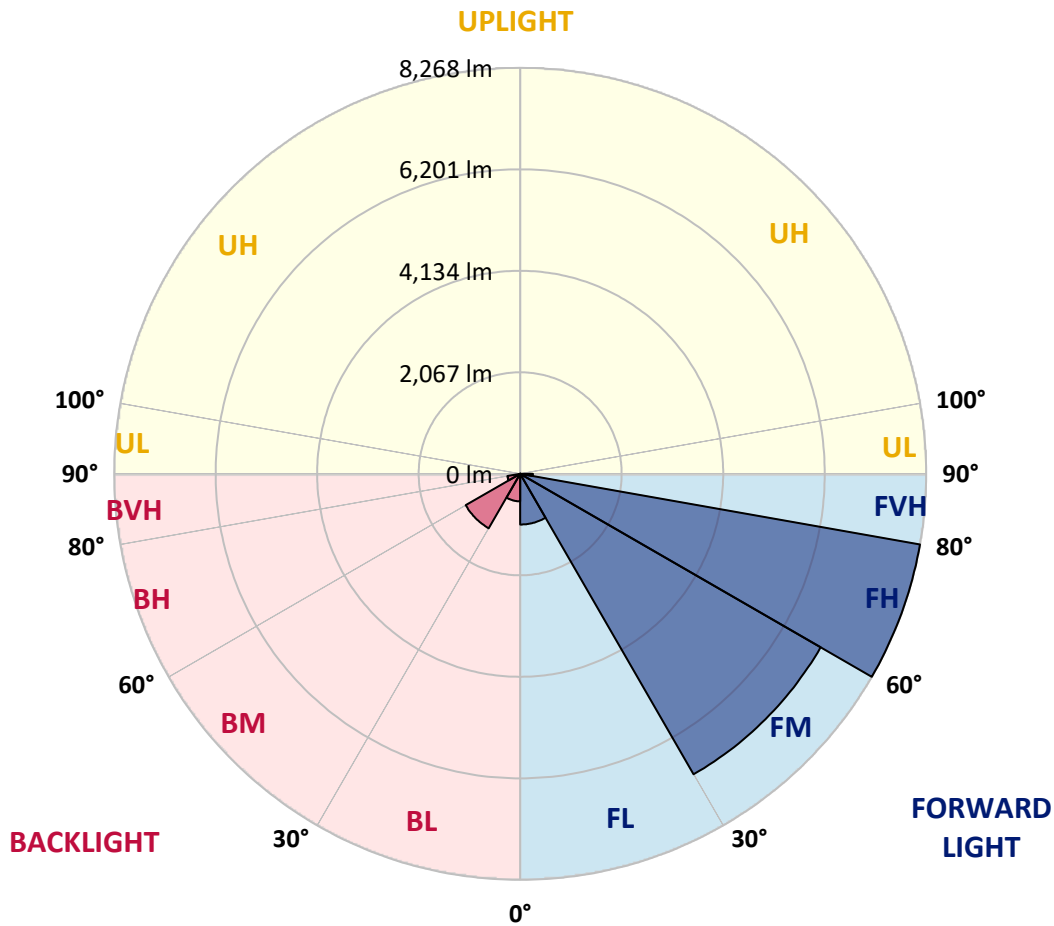
CATALOG NUMBER: GALN-SB6B-940-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1032.8	5.5			
FM (30°-60°)	7065.0	37.7			
FH (60°-80°)	8268.0	44.1			G4/12000
FVH (80°-90°)	260.7	1.4			G3/500
BL (0°-30°)	560.3	3.0	B2/1000		
BM (30°-60°)	1280.1	6.8	B2/2500		
BH (60°-80°)	264.6	1.4	B1/500		G1/500
BVH (80°-90°)	3.6	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



REPORT NUMBER: P942438
 CATALOG NUMBER: GALN-SB6B-940-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	2715.3	2715.3	2715.3	2715.3	2715.3	2715.3	2715.3	2715.3	2715.3	2715.3
2.5°	2594.5	2616.5	2620.6	2627.5	2627.5	2635.7	2649.4	2668.7	2700.2	2716.7
5°	2391.4	2407.8	2428.4	2444.9	2476.5	2480.6	2534.1	2586.3	2659.0	2714.0
7.5°	2186.8	2206.0	2233.5	2273.3	2314.5	2326.8	2407.8	2495.7	2611.0	2714.0
10°	2042.7	2044.0	2068.8	2108.6	2174.5	2189.6	2288.4	2413.3	2557.5	2697.5
12.5°	1961.7	1971.3	1982.3	2012.5	2075.6	2085.2	2190.9	2337.8	2503.9	2687.9
15°	1961.7	1968.5	1975.4	1990.5	2041.3	2049.5	2142.9	2289.8	2476.5	2692.0
17.5°	1982.3	1993.3	1987.8	2005.6	2059.1	2064.6	2147.0	2276.0	2475.1	2718.1
20°	2031.7	2039.9	2028.9	2039.9	2093.5	2104.4	2189.6	2302.1	2498.4	2763.4
22.5°	2109.9	2114.1	2088.0	2096.2	2151.1	2164.9	2263.7	2376.3	2554.7	2836.1
25°	2208.8	2217.0	2177.2	2186.8	2239.0	2255.5	2369.4	2487.5	2643.9	2936.3
27.5°	2322.7	2326.8	2292.5	2291.1	2358.4	2381.7	2497.1	2624.7	2763.4	3062.6
30°	2453.1	2465.5	2432.5	2427.0	2512.2	2531.4	2645.3	2793.6	2939.1	3252.1
32.5°	2556.1	2565.7	2546.5	2560.2	2646.7	2661.8	2825.2	3032.4	3215.0	3521.1
35°	2704.3	2709.8	2665.9	2690.6	2789.5	2827.9	3070.9	3367.4	3562.3	3858.8
37.5°	3241.1	3241.1	3054.4	2932.2	3026.9	3061.3	3407.2	3788.8	3990.6	4311.9
40°	3983.8	3971.4	3698.2	3448.4	3436.0	3503.3	3886.3	4320.1	4543.9	4855.5
42.5°	4775.9	4756.6	4384.6	4137.5	4096.3	4119.7	4439.5	4974.9	5202.8	5518.5
45°	5478.7	5473.2	5132.8	4800.6	4726.4	4800.6	5130.0	5740.9	5904.3	6236.5
47.5°	6067.6	6067.6	5819.2	5602.3	5563.8	5607.7	6064.9	6590.6	6575.5	7001.1
50°	6745.8	6740.3	6504.2	6410.8	6450.6	6512.4	7141.1	7485.7	7270.2	7752.0
52.5°	7220.7	7253.7	7172.7	7157.6	7360.8	7467.8	8233.8	8361.5	7892.0	8464.5
55°	7596.9	7635.3	7728.7	7834.4	8225.6	8365.6	9292.2	9192.0	8412.3	9082.2
57.5°	8129.5	8074.6	8218.7	8427.4	9060.3	9229.1	10317.7	9975.9	8831.0	9583.3
60°	8776.1	8784.3	8809.0	9072.6	9893.5	10110.4	11328.1	10717.2	9100.1	9890.8
62.5°	9553.1	9565.4	9616.2	10021.2	11012.3	11216.9	12404.3	11323.9	9223.6	9804.3
65°	9499.5	9551.7	10118.7	11503.8	12713.2	12915.0	13660.4	11749.5	9036.9	9013.6
67.5°	8653.9	8739.0	9687.6	13274.6	15277.5	15502.6	15178.7	11833.2	8231.1	7009.3
70°	7544.7	7574.9	8715.7	14867.0	18246.8	18474.7	16537.7	10912.1	6246.1	3909.6
72.5°	5891.9	5898.8	7237.2	15236.3	19858.4	19870.8	15471.1	8100.7	3359.2	1501.8
75°	4208.9	4167.7	4847.2	12356.3	17471.2	17611.2	11598.5	3799.8	1283.5	709.7
77.5°	2256.8	2302.1	2742.8	7327.8	12069.4	12308.2	6328.4	1095.5	653.4	483.2
80°	697.4	735.8	1124.3	3355.0	6836.4	6980.5	2346.1	487.3	455.8	344.6
82.5°	219.6	227.9	524.4	1409.8	2837.5	2903.4	679.5	275.9	311.6	227.9
85°	63.1	64.5	233.4	525.8	701.5	715.2	190.8	107.1	178.5	141.4
87.5°	6.9	22.0	87.9	87.9	61.8	60.4	20.6	23.3	50.8	17.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P942438
 CATALOG NUMBER: GALN-SB6B-940-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2715.3	0°	2715.3	2715.3	2715.3	2715.3	2715.3	2715.3	2715.3	2715.3	2715.3	2715.3
2727.7	2.5°	2720.8	2722.2	2704.3	2674.1	2641.2	2613.7	2579.4	2552.0	2532.8	2527.3
2752.4	5°	2740.0	2730.4	2679.6	2587.7	2477.8	2383.1	2277.4	2193.7	2138.8	2115.4
2778.5	7.5°	2768.9	2741.4	2630.2	2449.0	2239.0	2052.3	1862.8	1716.0	1622.6	1575.9
2803.2	10°	2793.6	2738.7	2547.9	2248.6	1927.4	1644.6	1389.2	1212.2	1113.3	1066.6
2832.0	12.5°	2816.9	2737.3	2440.8	2011.1	1575.9	1230.0	992.5	904.7	877.2	867.6
2878.7	15°	2860.8	2741.4	2306.2	1739.3	1225.9	929.4	842.9	841.5	847.0	844.3
2950.1	17.5°	2921.2	2745.5	2153.9	1451.0	945.8	819.5	815.4	827.8	836.0	831.9
3039.3	20°	2999.5	2762.0	1991.9	1165.5	812.7	792.1	801.7	812.7	819.5	812.7
3158.7	22.5°	3109.3	2790.8	1814.8	936.2	770.1	775.6	783.8	796.2	803.1	793.5
3311.1	25°	3243.8	2836.1	1640.5	814.0	749.5	756.4	768.7	782.5	790.7	781.1
3503.3	27.5°	3418.2	2908.9	1479.8	786.6	728.9	733.1	750.9	771.5	782.5	770.1
3776.5	30°	3670.8	3028.3	1341.2	798.9	716.6	707.0	731.7	760.5	772.9	761.9
4148.5	32.5°	4005.7	3197.2	1256.1	818.2	711.1	676.8	700.1	737.2	757.8	750.9
4634.5	35°	4445.0	3453.9	1223.1	840.1	707.0	645.2	661.7	701.5	737.2	744.0
5246.7	37.5°	4977.6	3810.8	1232.7	849.7	694.6	619.1	627.4	661.7	708.3	730.3
5935.8	40°	5583.0	4226.7	1287.7	840.1	680.9	597.2	598.5	624.6	665.8	698.7
6677.1	42.5°	6207.6	4712.7	1389.2	804.4	668.5	577.9	573.8	591.7	619.1	642.5
7417.1	45°	6802.1	5212.4	1489.5	755.0	653.4	558.7	549.1	556.0	561.5	571.1
8137.8	47.5°	7321.0	5563.8	1460.6	709.7	632.8	536.8	520.3	517.5	501.1	499.7
8781.6	50°	7679.2	5640.7	1297.3	664.4	602.6	512.0	486.0	469.5	440.7	426.9
9263.4	52.5°	7793.2	5337.3	1059.8	619.1	553.2	479.1	442.0	415.9	380.3	367.9
9540.7	55°	7642.2	4742.9	847.0	564.2	484.6	435.2	394.0	359.7	330.8	315.7
9570.9	57.5°	7272.9	3986.5	669.9	499.7	411.8	385.7	344.6	310.2	285.5	270.4
9236.0	60°	6660.7	3165.6	529.9	422.8	351.4	332.2	289.7	267.7	245.7	227.9
8371.1	62.5°	5731.3	2259.6	415.9	335.0	293.8	271.8	247.1	230.6	204.5	179.8
6815.8	65°	4472.5	1382.4	321.2	245.7	236.1	225.1	210.0	194.9	163.4	138.6
4446.4	67.5°	2821.0	654.8	229.3	185.3	186.7	181.2	174.3	162.0	138.6	116.7
1991.9	70°	1242.4	317.1	151.0	141.4	138.6	138.6	144.1	140.0	118.1	97.5
691.9	72.5°	422.8	170.2	112.6	107.1	100.2	98.8	120.8	116.7	94.7	75.5
344.6	75°	221.0	113.9	82.4	76.9	60.4	72.8	96.1	90.6	67.3	49.4
227.9	77.5°	144.1	81.0	56.3	49.4	34.3	48.0	71.4	63.1	39.8	24.7
149.6	80°	90.6	53.5	32.9	23.3	16.5	26.1	38.4	27.5	15.1	5.5
87.9	82.5°	48.0	27.5	12.4	8.2	6.9	8.2	9.6	6.9	2.7	0.0
45.3	85°	19.2	9.6	4.1	2.7	1.4	0.0	2.7	1.4	0.0	0.0
8.2	87.5°	6.9	1.4	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>
2715.3
2536.9
2123.7
1582.8
1068.0
864.8
842.9
830.5
811.3
792.1
779.7
770.1
760.5
750.9
744.0
735.8
709.7
652.1
576.6
498.3
428.3
366.5
315.7
267.7
223.8
175.7
134.5
113.9
93.3
71.4
45.3
22.0
4.1
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