

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: P942398

Luminaire Tested: **GALN-SB6B-850-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P942398  
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-850-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

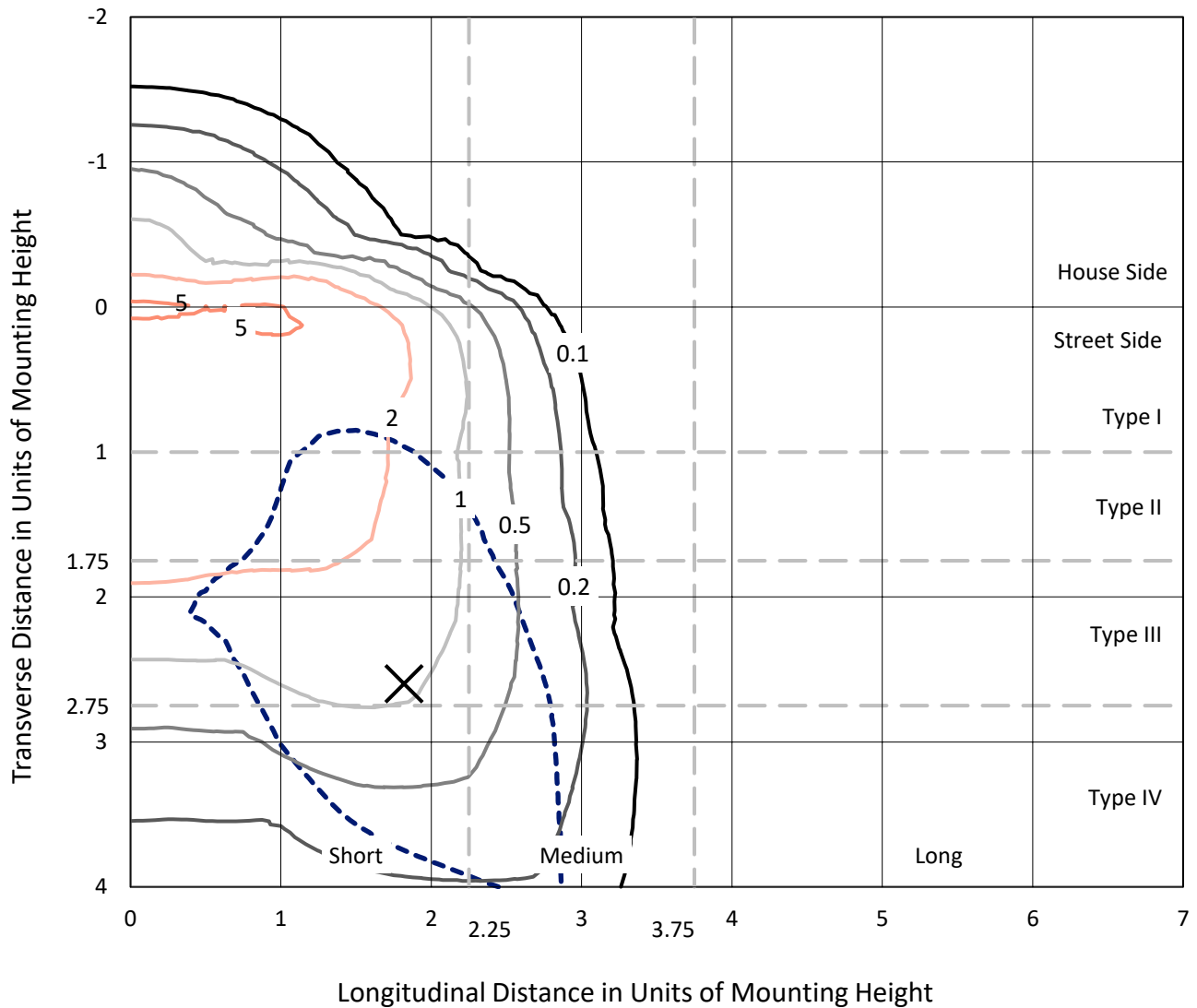
Lumens per Lamp: N/A  
Luminaire Lumens: 24730 lumens  
Efficiency: N/A  
Efficacy: 112.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 220.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
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



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### Iso-Footcandle Lines of Horizontal Illumination

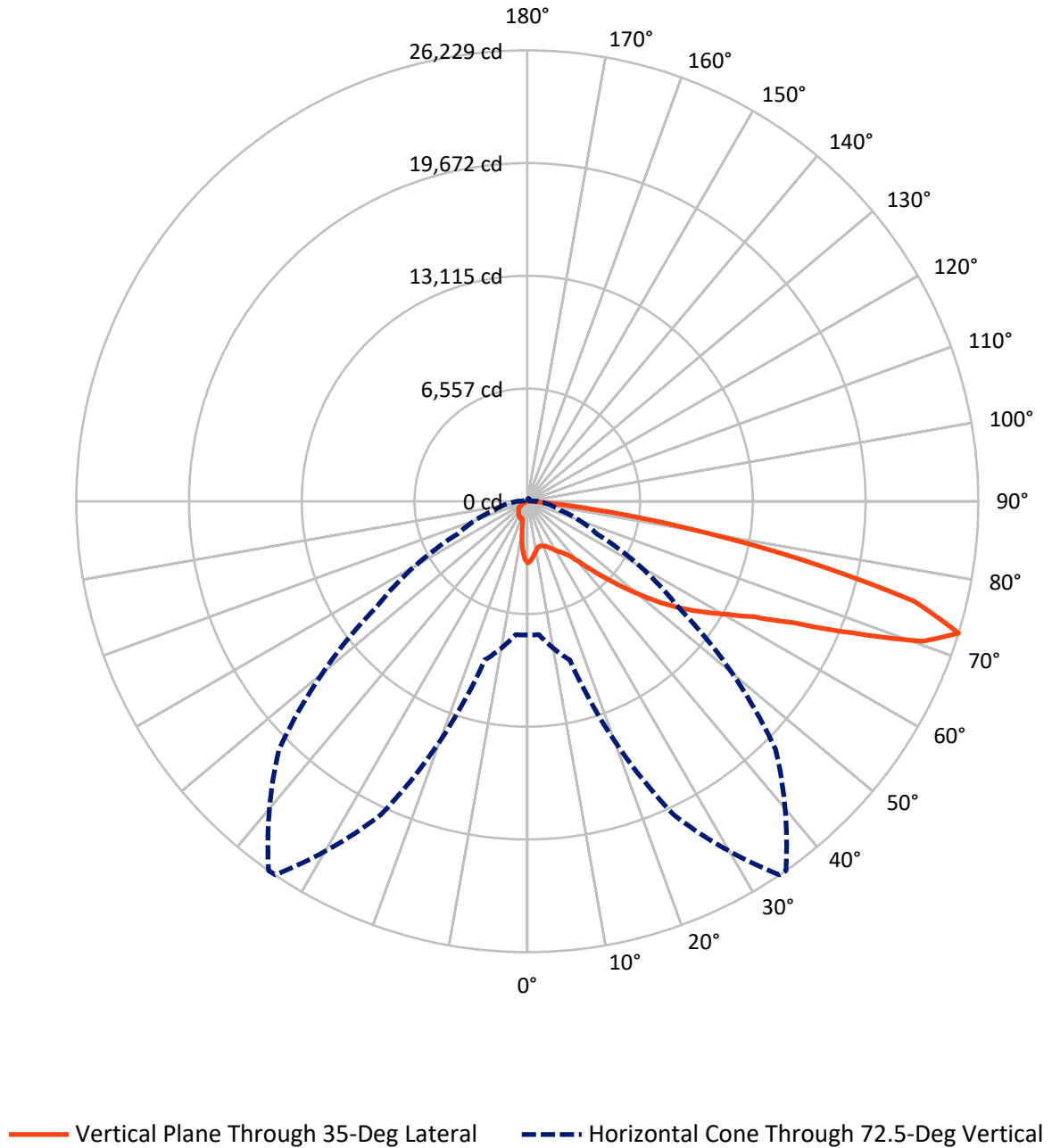
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2783.2	0.0	2783.2
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	21946.8	0.0	21946.8
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	24730.0	0.0	24730.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	294.5	1.2
10°-20°	689.0	2.8
20°-30°	1119.3	4.5
30°-40°	1867.5	7.6
40°-50°	3533.4	14.3
50°-60°	5614.5	22.7
60°-70°	6945.5	28.1
70°-80°	4317.4	17.5
80°-90°	348.9	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°	24730.0	100.0
0°-180°	24730.0	100.0

**Coefficient of Utilization**



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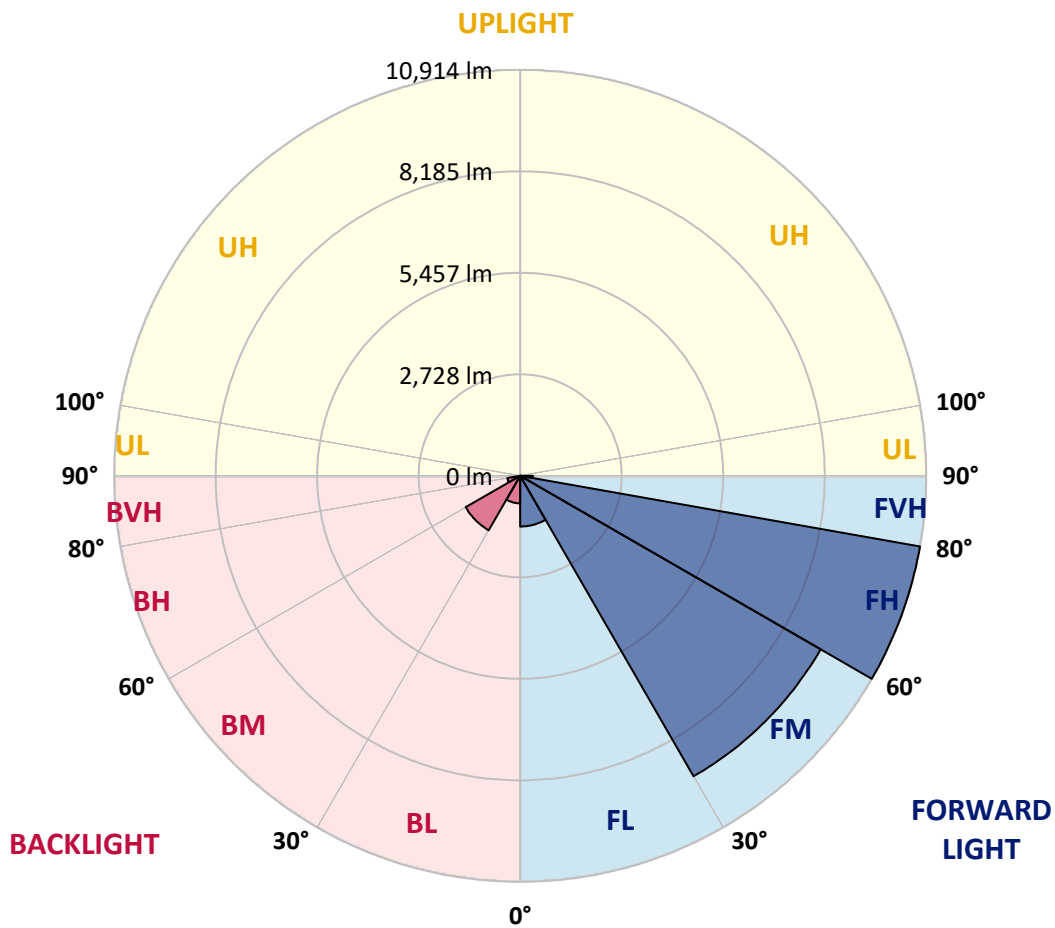
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1363.3	5.5			
FM (30°-60°)	9325.7	37.7			
FH (60°-80°)	10913.7	44.1			G4/12000
FVH (80°-90°)	344.2	1.4			G3/500
BL (0°-30°)	739.6	3.0	B2/1000		
BM (30°-60°)	1689.7	6.8	B2/2500		
BH (60°-80°)	349.2	1.4	B1/500		G1/500
BVH (80°-90°)	4.7	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°	34°	35°	45°	55°	65°	75°
0°	3584.2	3584.2	3584.2	3584.2	3584.2	3584.2	3584.2	3584.2	3584.2	3584.2
2.5°	3424.7	3453.7	3459.2	3468.2	3468.2	3479.1	3497.2	3522.6	3564.3	3586.0
5°	3156.6	3178.3	3205.5	3227.2	3268.9	3274.3	3345.0	3413.9	3509.9	3582.4
7.5°	2886.6	2911.9	2948.2	3000.7	3055.1	3071.4	3178.3	3294.3	3446.5	3582.4
10°	2696.3	2698.1	2730.7	2783.3	2870.3	2890.2	3020.7	3185.6	3375.8	3560.6
12.5°	2589.4	2602.1	2616.6	2656.4	2739.8	2752.5	2892.0	3085.9	3305.2	3548.0
15°	2589.4	2598.5	2607.5	2627.5	2694.5	2705.4	2828.6	3022.5	3268.9	3553.4
17.5°	2616.6	2631.1	2623.8	2647.4	2718.1	2725.3	2834.0	3004.4	3267.1	3587.8
20°	2681.8	2692.7	2678.2	2692.7	2763.4	2777.9	2890.2	3038.8	3297.9	3647.6
22.5°	2785.1	2790.5	2756.1	2767.0	2839.5	2857.6	2988.0	3136.6	3372.2	3743.7
25°	2915.6	2926.4	2873.9	2886.6	2955.4	2977.2	3127.6	3283.4	3490.0	3875.9
27.5°	3066.0	3071.4	3026.1	3024.3	3113.1	3143.9	3296.1	3464.6	3647.6	4042.7
30°	3238.1	3254.4	3210.9	3203.7	3316.0	3341.4	3491.8	3687.5	3879.6	4292.7
32.5°	3374.0	3386.7	3361.3	3379.4	3493.6	3513.5	3729.2	4002.8	4243.8	4647.9
35°	3569.7	3577.0	3519.0	3551.6	3682.1	3732.8	4053.5	4444.9	4702.2	5093.6
37.5°	4278.2	4278.2	4031.8	3870.5	3995.5	4040.8	4497.5	5001.2	5267.6	5691.6
40°	5258.5	5242.2	4881.6	4551.8	4535.5	4624.3	5129.9	5702.5	5997.8	6409.2
42.5°	6304.1	6278.7	5787.6	5461.5	5407.1	5437.9	5860.1	6566.8	6867.6	7284.4
45°	7231.8	7224.6	6775.2	6336.7	6238.8	6336.7	6771.6	7577.9	7793.6	8232.1
47.5°	8009.2	8009.2	7681.2	7394.9	7344.2	7402.2	8005.6	8699.6	8679.6	9241.4
50°	8904.3	8897.1	8585.4	8462.2	8514.8	8596.3	9426.2	9881.0	9596.5	10232.6
52.5°	9531.3	9574.8	9467.9	9448.0	9716.1	9857.5	10868.6	11037.1	10417.4	11173.0
55°	10027.8	10078.5	10201.8	10341.3	10857.7	11042.5	12265.7	12133.4	11104.2	11988.4
57.5°	10730.9	10658.4	10848.7	11124.1	11959.4	12182.3	13619.3	13168.1	11656.8	12649.8
60°	11584.3	11595.2	11627.8	11975.7	13059.3	13345.6	14952.9	14146.6	12012.0	13055.7
62.5°	12610.0	12626.3	12693.3	13227.9	14536.1	14806.1	16373.6	14947.5	12175.1	12941.6
65°	12539.3	12608.1	13356.5	15184.9	16781.3	17047.6	18031.6	15509.2	11928.6	11897.8
67.5°	11423.1	11535.4	12787.5	17522.4	20166.1	20463.3	20035.7	15619.7	10865.0	9252.3
70°	9958.9	9998.8	11504.6	19624.3	24085.6	24386.4	21829.6	14403.9	8244.8	5160.7
72.5°	7777.3	7786.3	9553.1	20111.8	26212.9	26229.2	20421.6	10692.8	4434.1	1982.4
75°	5555.7	5501.3	6398.3	16310.1	23061.8	23246.6	15309.9	5015.7	1694.3	936.8
77.5°	2979.0	3038.8	3620.4	9672.6	15931.4	16246.7	8353.5	1446.0	862.5	637.8
80°	920.5	971.3	1484.1	4428.6	9023.9	9214.2	3096.8	643.3	601.6	454.8
82.5°	289.9	300.8	692.2	1861.0	3745.5	3832.5	897.0	364.2	411.3	300.8
85°	83.4	85.2	308.0	694.0	926.0	944.1	251.9	141.3	235.6	186.6
87.5°	9.1	29.0	116.0	116.0	81.5	79.7	27.2	30.8	67.0	23.6
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°
3584.2	0°	3584.2	3584.2	3584.2	3584.2	3584.2	3584.2	3584.2	3584.2	3584.2	3584.2
3600.5	2.5°	3591.5	3593.3	3569.7	3529.8	3486.4	3450.1	3404.8	3368.6	3343.2	3336.0
3633.1	5°	3616.8	3604.1	3537.1	3415.7	3270.7	3145.7	3006.2	2895.6	2823.2	2792.3
3667.6	7.5°	3654.9	3618.6	3471.9	3232.7	2955.4	2709.0	2458.9	2265.0	2141.8	2080.2
3700.2	10°	3687.5	3615.0	3363.1	2968.1	2544.1	2170.8	1833.8	1600.0	1469.6	1408.0
3738.2	12.5°	3718.3	3613.2	3221.8	2654.6	2080.2	1623.6	1310.1	1194.1	1157.9	1145.2
3799.8	15°	3776.3	3618.6	3044.2	2295.8	1618.1	1226.7	1112.6	1110.8	1118.0	1114.4
3894.1	17.5°	3856.0	3624.1	2843.1	1915.3	1248.5	1081.8	1076.3	1092.7	1103.5	1098.1
4011.8	20°	3959.3	3645.8	2629.3	1538.4	1072.7	1045.5	1058.2	1072.7	1081.8	1072.7
4169.5	22.5°	4104.3	3683.9	2395.5	1235.8	1016.6	1023.8	1034.7	1051.0	1060.0	1047.4
4370.6	25°	4281.8	3743.7	2165.4	1074.5	989.4	998.4	1014.7	1032.9	1043.7	1031.0
4624.3	27.5°	4512.0	3839.7	1953.4	1038.3	962.2	967.6	991.2	1018.4	1032.9	1016.6
4984.9	30°	4845.4	3997.4	1770.4	1054.6	945.9	933.2	965.8	1003.9	1020.2	1005.7
5476.0	32.5°	5287.5	4220.2	1658.0	1080.0	938.6	893.3	924.1	973.1	1000.2	991.2
6117.4	35°	5867.4	4559.1	1614.5	1109.0	933.2	851.7	873.4	926.0	973.1	982.1
6925.6	37.5°	6570.4	5030.2	1627.2	1121.6	916.9	817.2	828.1	873.4	935.0	964.0
7835.2	40°	7369.5	5579.3	1699.7	1109.0	898.8	788.2	790.0	824.5	878.8	922.3
8813.7	42.5°	8194.0	6220.7	1833.8	1061.9	882.5	762.9	757.4	781.0	817.2	848.0
9790.4	45°	8978.6	6880.3	1966.1	996.6	862.5	737.5	724.8	733.9	741.1	753.8
10741.7	47.5°	9663.6	7344.2	1928.0	936.8	835.3	708.5	686.8	683.1	661.4	659.6
11591.6	50°	10136.5	7445.7	1712.4	877.0	795.5	675.9	641.5	619.7	581.7	563.5
12227.6	52.5°	10286.9	7045.2	1398.9	817.2	730.3	632.4	583.5	549.0	501.9	485.6
12593.6	55°	10087.6	6260.6	1118.0	744.7	639.6	574.4	520.1	474.8	436.7	416.8
12633.5	57.5°	9600.2	5262.2	884.3	659.6	543.6	509.2	454.8	409.5	376.9	357.0
12191.4	60°	8792.0	4178.6	699.4	558.1	463.9	438.5	382.3	353.3	324.4	300.8
11049.8	62.5°	7565.2	2982.6	549.0	442.1	387.8	358.8	326.2	304.4	270.0	237.4
8996.8	65°	5903.6	1824.7	424.0	324.4	311.7	297.2	277.2	257.3	215.6	183.0
5869.2	67.5°	3723.7	864.3	302.6	244.6	246.4	239.2	230.1	213.8	183.0	154.0
2629.3	70°	1639.9	418.6	199.3	186.6	183.0	183.0	190.3	184.8	155.8	128.7
913.3	72.5°	558.1	224.7	148.6	141.3	132.3	130.5	159.5	154.0	125.0	99.7
454.8	75°	291.7	150.4	108.7	101.5	79.7	96.0	126.8	119.6	88.8	65.2
300.8	77.5°	190.3	106.9	74.3	65.2	45.3	63.4	94.2	83.4	52.5	32.6
197.5	80°	119.6	70.7	43.5	30.8	21.7	34.4	50.7	36.2	19.9	7.2
116.0	82.5°	63.4	36.2	16.3	10.9	9.1	10.9	12.7	9.1	3.6	0.0
59.8	85°	25.4	12.7	5.4	3.6	1.8	0.0	3.6	1.8	0.0	0.0
10.9	87.5°	9.1	1.8	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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180°
3584.2
3348.6
2803.2
2089.3
1409.8
1141.6
1112.6
1096.3
1070.9
1045.5
1029.2
1016.6
1003.9
991.2
982.1
971.3
936.8
860.7
761.1
657.8
565.4
483.8
416.8
353.3
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