

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: P942444

Luminaire Tested: **GALN-SB6B-950-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942444
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6B-950-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 90 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17346 lumens
Efficiency: N/A
Efficacy: 78.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

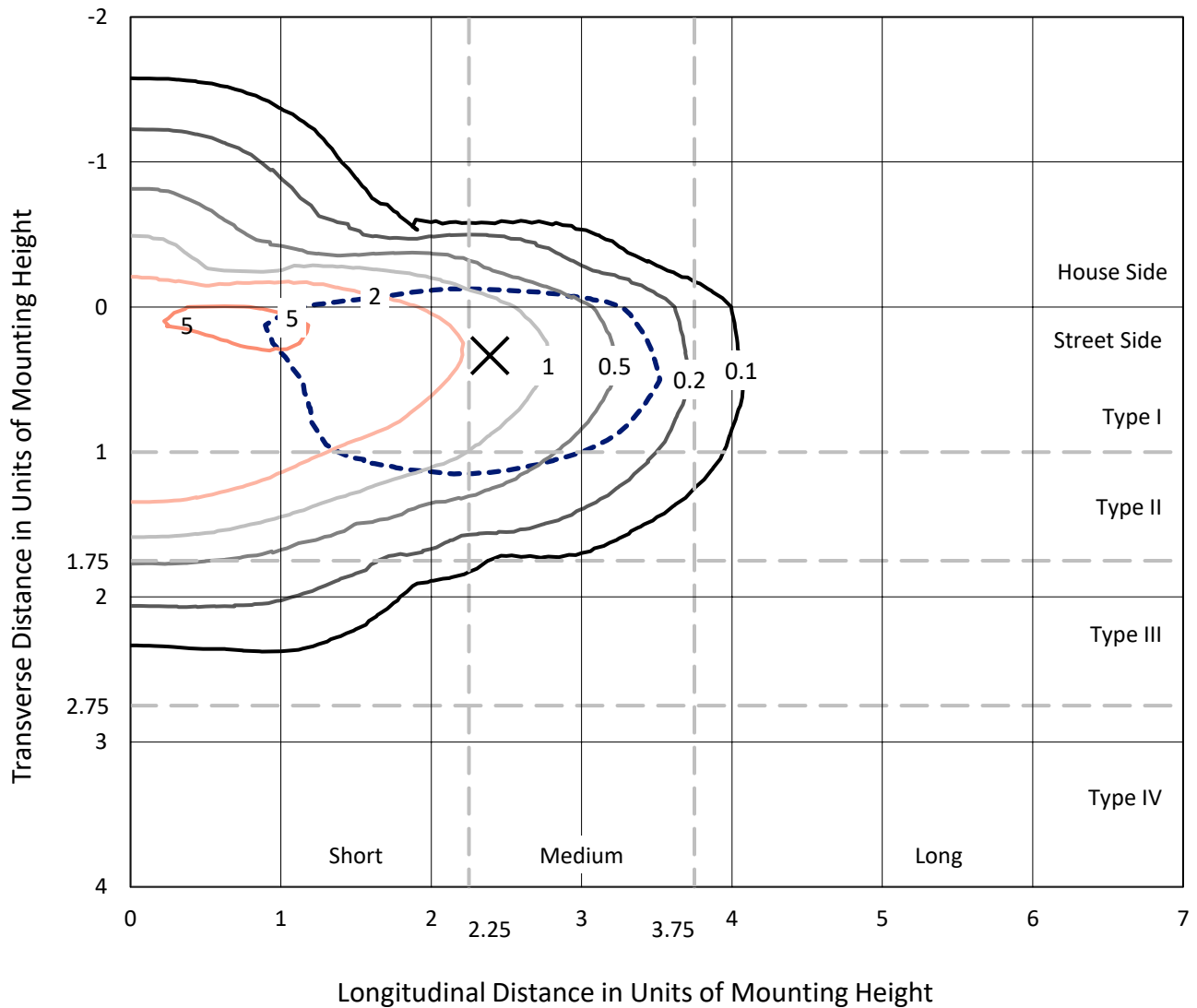
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

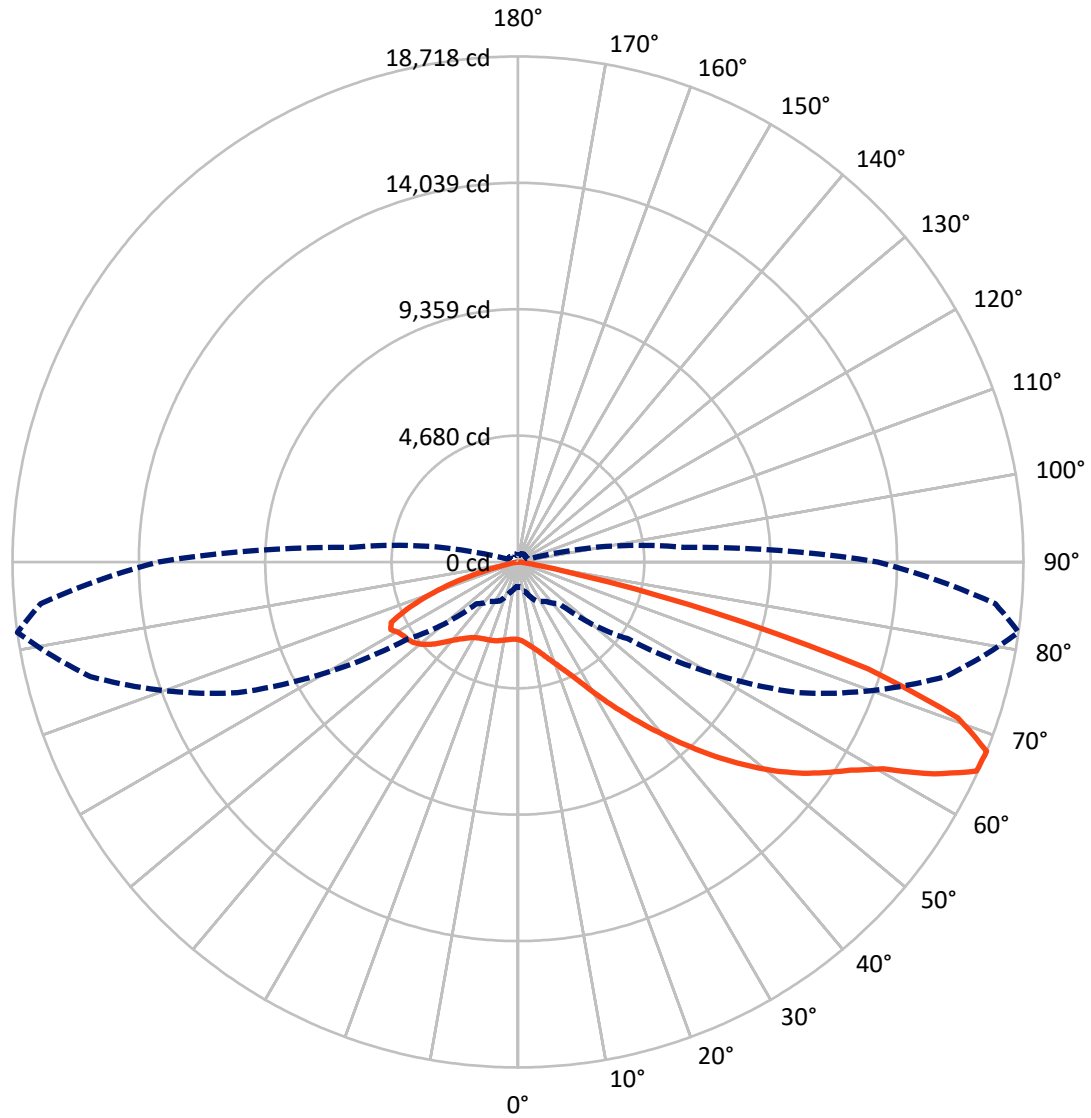
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3142.1	0.0	3142.1
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	14203.9	0.0	14203.9
	% Fixture	81.9	0.0	81.9
Total	Lumens	17346.0	0.0	17346.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.0	1.5
10°-20°	665.3	3.8
20°-30°	1065.6	6.1
30°-40°	1884.3	10.9
40°-50°	3301.5	19.0
50°-60°	4403.2	25.4
60°-70°	4099.2	23.6
70°-80°	1573.3	9.1
80°-90°	97.7	0.6
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°	17346.0	100.0
0°-180°	17346.0	100.0

Coefficient of Utilization



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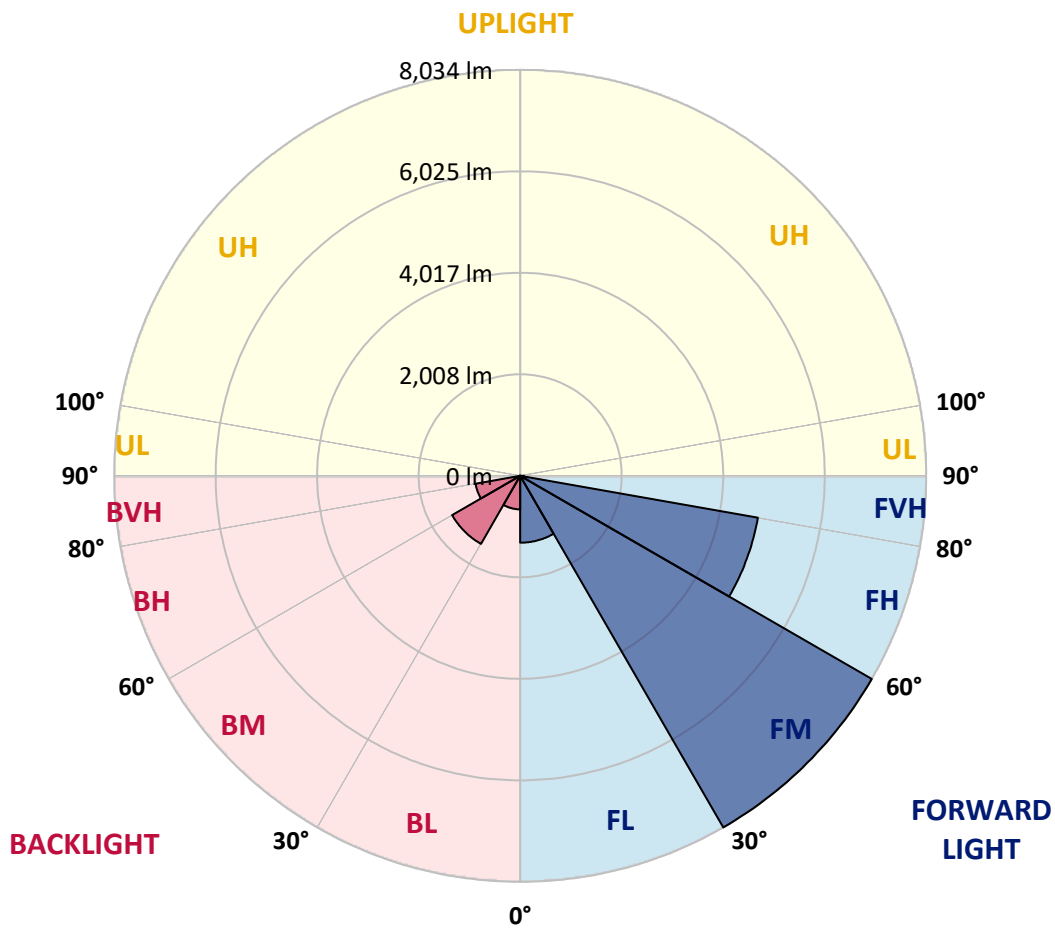
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1323.3	7.6			
FM (30°-60°)	8034.0	46.3			
FH (60°-80°)	4775.6	27.5			G2/5000
FVH (80°-90°)	71.0	0.4			G1/100
BL (0°-30°)	663.6	3.8	B2/1000		
BM (30°-60°)	1555.0	9.0	B2/2500		
BH (60°-80°)	896.8	5.2	B2/1000		G2/1000
BVH (80°-90°)	26.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	2873.6	2873.6	2873.6	2873.6	2873.6	2873.6	2873.6	2873.6	2873.6	2873.6
2.5°	3037.2	3054.7	3044.7	3039.7	3031.0	3018.5	3008.5	2977.3	2944.8	2923.6
5°	3098.4	3115.9	3114.7	3119.7	3125.9	3129.7	3127.2	3092.2	3046.0	3009.8
7.5°	3046.0	3066.0	3082.2	3107.2	3150.9	3197.1	3219.6	3212.1	3164.6	3114.7
10°	2897.4	2918.6	2957.3	3016.0	3108.4	3208.3	3292.0	3330.7	3300.8	3245.8
12.5°	2625.1	2646.4	2722.5	2849.9	3004.8	3178.4	3338.2	3441.9	3449.4	3394.4
15°	2319.1	2340.4	2421.6	2581.4	2817.4	3095.9	3363.2	3559.3	3625.5	3578.0
17.5°	2129.3	2148.1	2209.2	2337.9	2583.9	2931.1	3354.5	3684.2	3835.3	3797.8
20°	2071.9	2088.1	2116.8	2206.7	2411.6	2760.0	3297.0	3801.6	4061.3	4040.1
22.5°	2133.1	2148.1	2156.8	2196.8	2325.4	2647.6	3224.6	3921.4	4323.6	4326.1
25°	2274.2	2289.2	2279.2	2304.2	2360.4	2612.6	3197.1	4062.6	4653.3	4680.8
27.5°	2506.5	2507.7	2484.0	2482.7	2491.5	2665.1	3225.8	4213.7	5069.2	5120.4
30°	2972.3	2953.6	2862.4	2763.7	2718.8	2822.4	3305.8	4392.3	5560.0	5651.1
32.5°	3690.4	3662.9	3495.6	3259.5	3022.3	3076.0	3449.4	4595.8	6094.5	6259.3
35°	4469.7	4462.2	4287.4	3936.4	3521.8	3436.9	3682.9	4863.1	6677.7	6940.0
37.5°	5194.0	5190.3	5090.4	4677.0	4172.5	3940.2	4057.6	5212.8	7302.1	7681.8
40°	5855.9	5867.2	5767.3	5397.6	4889.3	4585.8	4567.1	5644.9	7996.5	8489.8
42.5°	6427.9	6440.4	6339.3	6065.8	5597.4	5300.2	5192.8	6174.4	8674.6	9357.8
45°	6816.3	6893.8	6878.8	6660.2	6324.3	6015.8	5944.6	6838.8	9447.7	10278.2
47.5°	6926.2	6997.4	7109.8	7139.8	6935.0	6631.5	6716.4	7639.3	10229.5	11199.8
50°	6655.2	6721.4	6954.9	7265.9	7408.3	7314.6	7467.0	8497.3	11030.0	12119.0
52.5°	6120.7	6188.1	6482.9	6974.9	7555.7	7850.4	8220.0	9342.8	11805.5	12989.5
55°	5347.7	5418.8	5797.2	6354.2	7274.7	8071.4	8848.2	10187.0	12516.2	13772.5
57.5°	4296.1	4348.6	4742.0	5521.2	6567.8	7851.6	9311.6	11108.7	13185.5	14541.8
60°	2800.0	2846.2	3303.3	4172.5	5396.4	7117.3	9404.0	12136.5	14074.7	15542.2
62.5°	1862.1	1893.3	2164.3	2802.5	3800.3	5707.3	8863.2	12957.0	15378.6	17283.1
65°	1277.6	1308.8	1579.8	2024.4	2455.3	3775.3	7308.4	12848.4	16560.0	18665.6
67.5°	911.7	937.9	1167.7	1587.3	1777.1	2193.0	4954.3	11459.6	16390.1	18718.0
70°	653.2	668.1	858.0	1236.4	1412.5	1317.6	2755.0	8764.6	14350.7	17284.3
72.5°	457.1	462.1	595.7	941.6	1137.7	961.6	1311.3	5843.5	10853.9	13566.5
75°	309.7	316.0	400.9	690.6	912.9	734.3	694.4	3133.4	6371.7	7509.4
77.5°	189.8	192.3	258.5	472.1	683.1	559.5	447.1	1327.5	2465.3	2420.3
80°	107.4	107.4	164.9	293.5	465.8	360.9	313.5	564.5	780.5	685.6
82.5°	59.9	61.2	119.9	182.3	308.5	213.6	172.3	261.0	337.2	298.5
85°	25.0	27.5	73.7	86.2	147.4	106.2	69.9	109.9	124.9	111.1
87.5°	2.5	3.7	22.5	16.2	17.5	21.2	10.0	21.2	17.5	17.5
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°
2873.6	0°	2873.6	2873.6	2873.6	2873.6	2873.6	2873.6	2873.6	2873.6	2873.6	2873.6
2916.1	2.5°	2892.4	2873.6	2826.2	2771.2	2698.8	2663.8	2616.4	2583.9	2556.4	2558.9
2988.5	5°	2948.6	2901.1	2795.0	2662.6	2497.7	2380.3	2255.5	2169.3	2099.3	2084.4
3088.5	7.5°	3026.0	2951.1	2765.0	2526.5	2248.0	2036.9	1848.3	1727.2	1641.0	1613.5
3209.6	10°	3125.9	3017.3	2726.3	2355.4	1954.5	1686.0	1483.7	1388.7	1330.0	1310.1
3352.0	12.5°	3242.1	3093.4	2675.1	2146.8	1652.3	1393.7	1265.1	1217.6	1198.9	1192.7
3526.8	15°	3388.2	3188.4	2597.6	1899.5	1396.2	1215.1	1160.2	1154.0	1156.5	1154.0
3736.6	17.5°	3561.8	3292.0	2471.5	1644.8	1223.9	1124.0	1104.0	1109.0	1115.2	1114.0
3971.4	20°	3751.6	3394.4	2310.4	1418.7	1106.5	1059.0	1047.8	1052.8	1057.8	1055.3
4242.4	22.5°	3967.7	3504.3	2131.8	1242.6	1027.8	999.1	986.6	987.9	987.9	982.9
4585.8	25°	4226.2	3625.5	1944.5	1117.7	967.9	945.4	930.4	925.4	917.9	902.9
5003.0	27.5°	4534.6	3754.1	1764.7	1030.3	920.4	899.2	881.7	869.2	850.5	825.5
5503.8	30°	4881.8	3910.2	1612.3	975.4	882.9	861.7	841.7	823.0	795.5	764.3
6079.5	32.5°	5290.2	4077.6	1501.1	939.1	849.2	826.8	803.0	780.5	750.6	719.3
6726.4	35°	5777.3	4279.9	1436.2	914.2	823.0	793.0	766.8	741.8	719.3	691.9
7429.5	37.5°	6305.5	4494.7	1416.2	901.7	805.5	759.3	729.3	711.9	709.4	693.1
8190.1	40°	6883.8	4749.4	1431.2	894.2	786.8	726.8	694.4	690.6	696.9	668.1
9003.1	42.5°	7495.7	5051.7	1456.2	885.4	760.6	694.4	663.1	663.1	658.2	618.2
9862.3	45°	8157.6	5400.1	1481.2	864.2	729.3	661.9	638.2	629.4	608.2	569.5
10726.5	47.5°	8824.5	5754.8	1499.9	825.5	691.9	634.4	613.2	593.2	562.0	527.0
11574.5	50°	9457.7	6073.2	1479.9	768.1	649.4	608.2	585.7	558.2	524.5	500.8
12377.5	52.5°	10023.4	6349.2	1395.0	700.6	604.5	580.7	560.7	532.0	504.5	479.6
13101.9	55°	10515.5	6572.8	1245.1	636.9	564.5	557.0	537.0	500.8	463.3	442.1
13820.0	57.5°	10987.5	6742.6	1057.8	584.5	528.3	530.8	500.8	468.3	433.4	410.9
14787.8	60°	11615.7	6969.9	868.0	535.8	489.6	497.0	464.6	440.9	397.1	368.4
16447.6	62.5°	12619.8	7323.4	689.4	475.8	444.6	447.1	433.4	404.6	352.2	318.5
17677.7	65°	13416.6	7193.5	543.3	410.9	393.4	397.1	397.1	365.9	309.7	271.0
17743.9	67.5°	13326.7	6159.4	433.4	347.2	344.7	347.2	355.9	329.7	274.8	243.5
16392.6	70°	12276.4	4899.3	347.2	288.5	299.7	293.5	318.5	301.0	247.3	216.1
12708.5	72.5°	10017.2	3529.3	264.8	238.5	229.8	239.8	287.2	271.0	206.1	171.1
6731.4	75°	5853.4	1883.3	197.3	188.6	166.1	199.8	254.8	231.0	157.4	126.1
2063.1	77.5°	1905.8	656.9	144.9	138.6	123.6	161.1	217.3	194.8	128.6	99.9
604.5	80°	510.8	198.6	98.7	91.2	79.9	119.9	172.3	154.9	92.4	64.9
259.8	82.5°	204.8	83.7	57.4	51.2	43.7	82.4	136.1	124.9	68.7	41.2
81.2	85°	66.2	27.5	21.2	16.2	20.0	51.2	81.2	84.9	48.7	21.2
12.5	87.5°	8.7	3.7	3.7	5.0	3.7	8.7	25.0	23.7	13.7	2.5
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>
2873.6
2534.0
2050.6
1586.1
1295.1
1188.9
1152.7
1111.5
1054.0
980.4
900.4
823.0
761.8
720.6
689.4
691.9
669.4
618.2
568.2
525.8
497.0
477.1
439.6
408.4
364.7
316.0
267.3
238.5
212.3
167.3
122.4
96.2
63.7
41.2
16.2
0.0
0.0

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