

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: P942364

Luminaire Tested: **GALN-SB6B-830-U-T2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P942364  
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-830-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

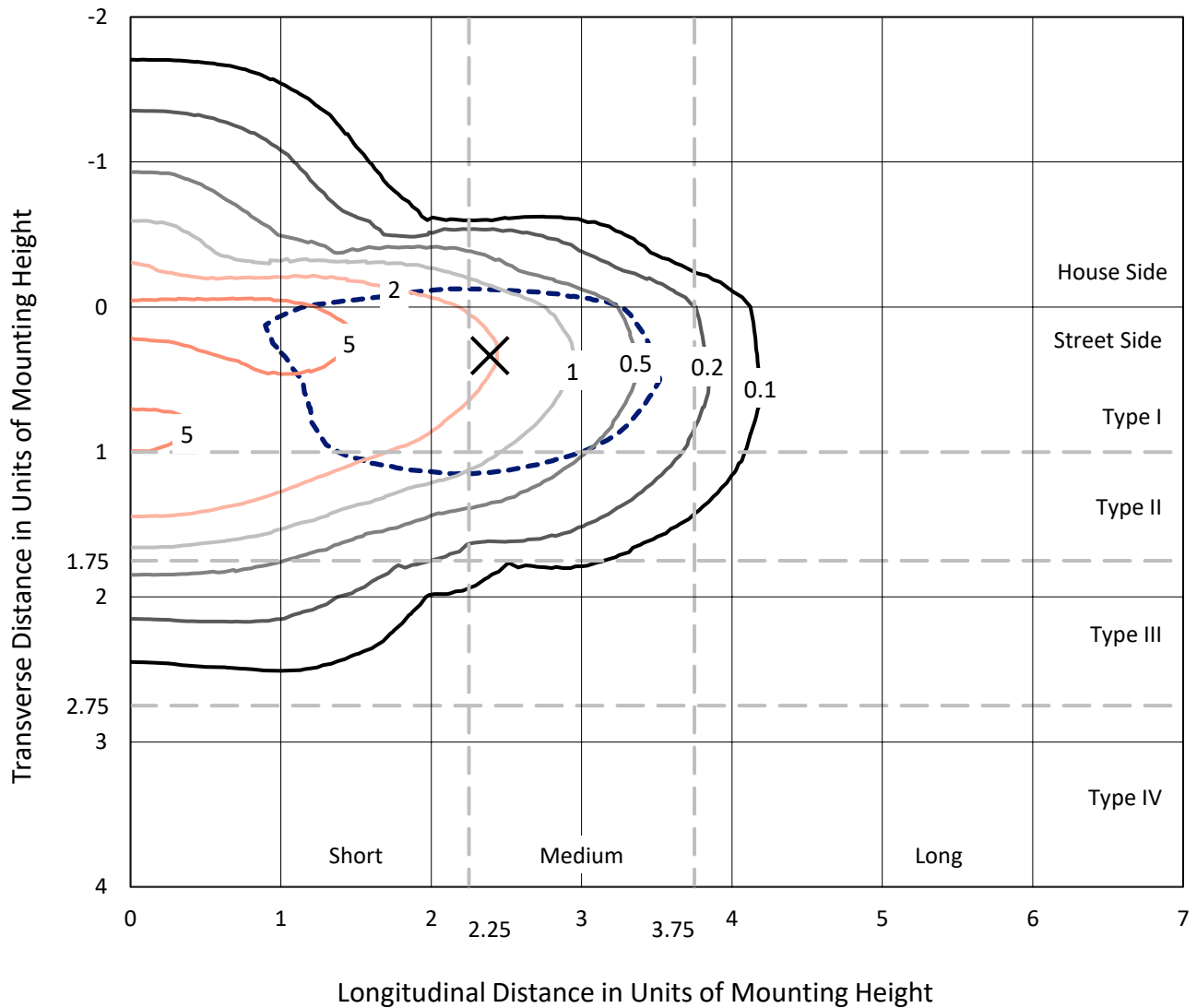
Lumens per Lamp: N/A  
Luminaire Lumens: 22405 lumens  
Efficiency: N/A  
Efficacy: 101.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 220.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

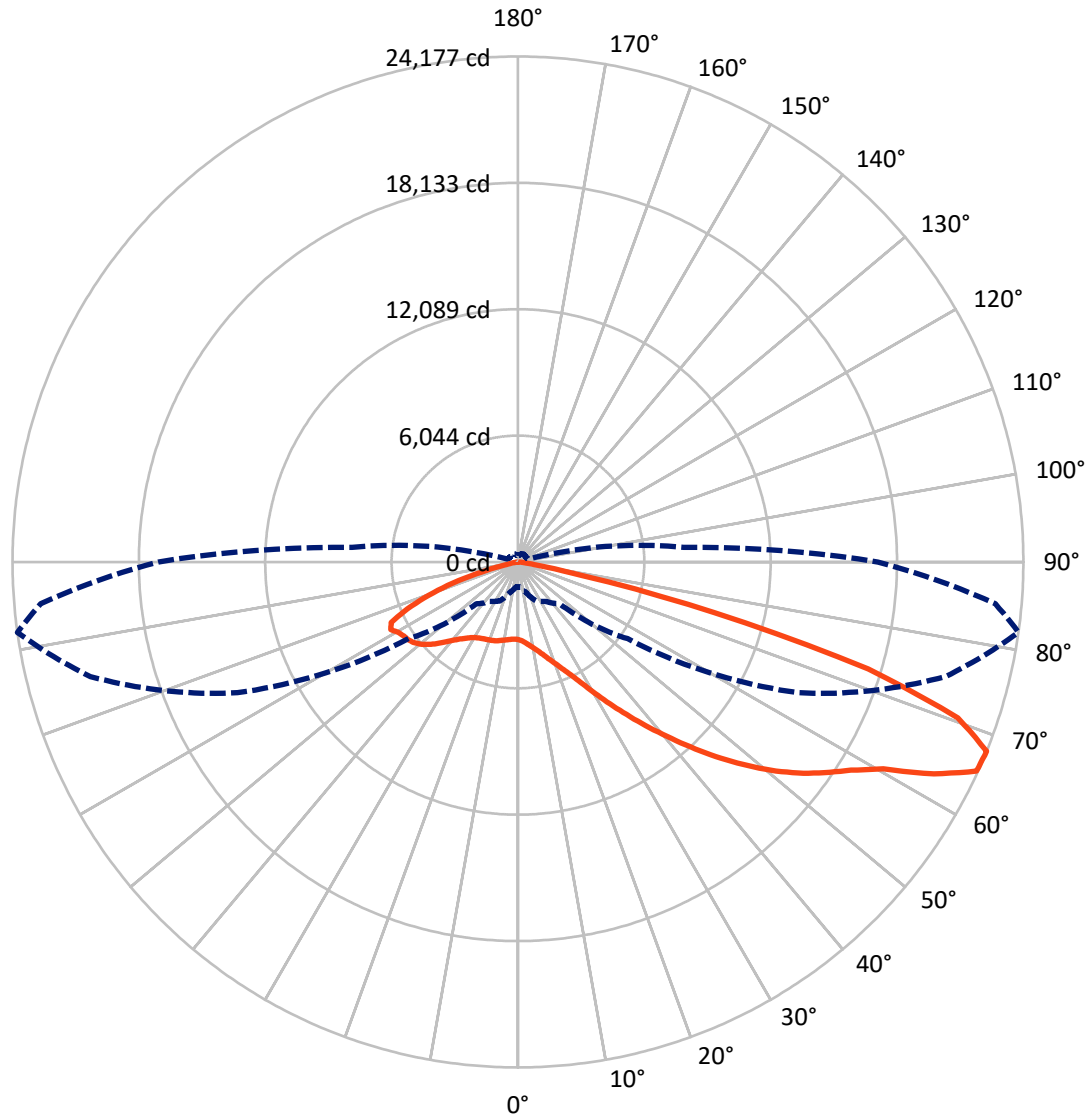
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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
<b>House Side</b>	Lumens	4058.5	0.0	4058.5
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	18346.5	0.0	18346.5
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	22405.0	0.0	22405.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	330.7	1.5
10°-20°	859.3	3.8
20°-30°	1376.4	6.1
30°-40°	2433.8	10.9
40°-50°	4264.3	19.0
50°-60°	5687.4	25.4
60°-70°	5294.7	23.6
70°-80°	2032.1	9.1
80°-90°	126.2	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°	22405.0	100.0
0°-180°	22405.0	100.0

**Coefficient of Utilization**



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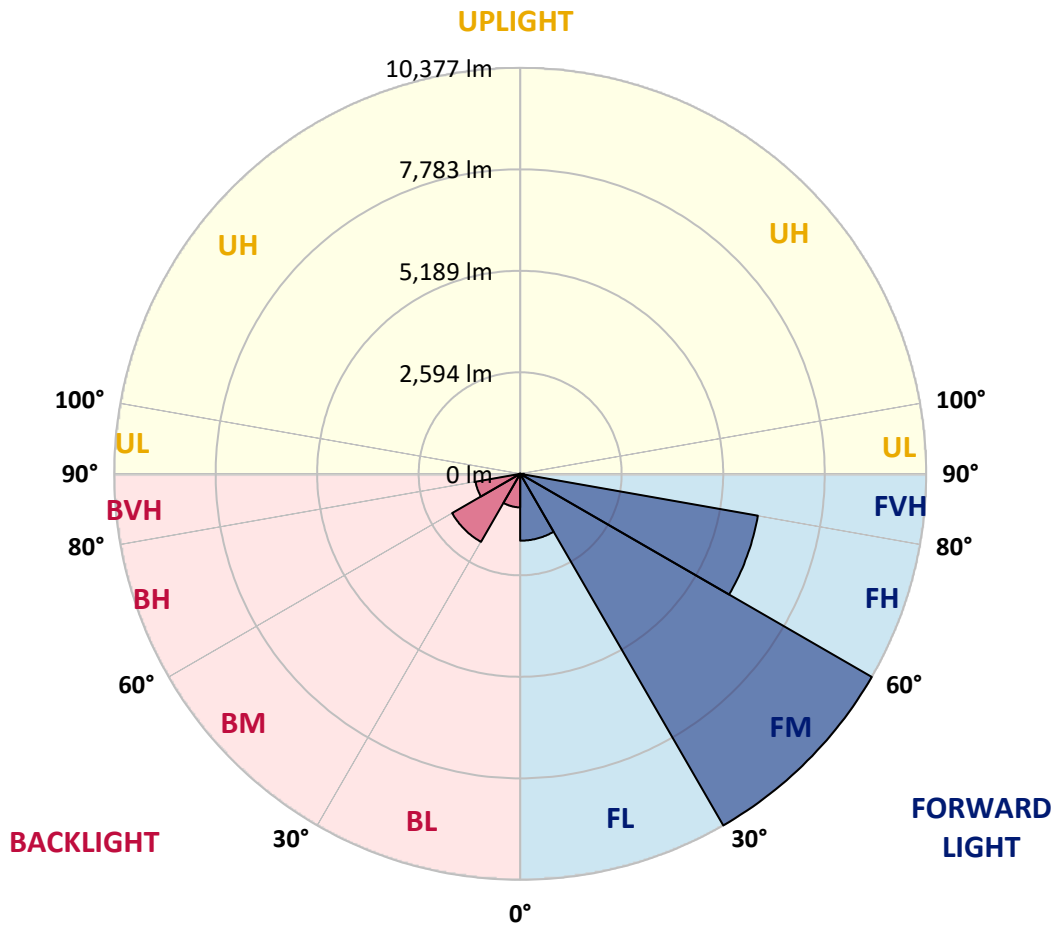
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1709.3	7.6			
FM (30°-60°)	10377.1	46.3			
FH (60°-80°)	6168.4	27.5			G3/7500
FVH (80°-90°)	91.8	0.4			G1/100
BL (0°-30°)	857.1	3.8	B2/1000		
BM (30°-60°)	2008.5	9.0	B2/2500		
BH (60°-80°)	1158.4	5.2	B3/2500		G3/2500
BVH (80°-90°)	34.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	3711.8	3711.8	3711.8	3711.8	3711.8	3711.8	3711.8	3711.8	3711.8	3711.8
2.5°	3923.1	3945.7	3932.7	3926.3	3915.0	3898.9	3886.0	3845.6	3803.7	3776.3
5°	4002.1	4024.7	4023.1	4029.5	4037.6	4042.4	4039.2	3994.0	3934.4	3887.6
7.5°	3934.4	3960.2	3981.1	4013.4	4069.9	4129.5	4158.6	4148.9	4087.6	4023.1
10°	3742.4	3769.8	3819.8	3895.6	4015.0	4144.1	4252.1	4302.1	4263.4	4192.5
12.5°	3390.7	3418.2	3516.6	3681.1	3881.1	4105.3	4311.8	4445.7	4455.4	4384.4
15°	2995.5	3023.0	3127.8	3334.3	3639.2	3998.9	4344.1	4597.3	4682.8	4621.5
17.5°	2750.3	2774.5	2853.6	3019.7	3337.5	3786.0	4332.8	4758.7	4953.8	4905.4
20°	2676.1	2697.1	2734.2	2850.4	3114.9	3565.0	4258.6	4910.3	5245.8	5218.4
22.5°	2755.2	2774.5	2785.8	2837.4	3003.6	3419.8	4165.0	5065.1	5584.6	5587.8
25°	2937.5	2956.8	2943.9	2976.2	3048.8	3374.6	4129.5	5247.4	6010.4	6045.9
27.5°	3237.5	3239.1	3208.5	3206.8	3218.1	3442.4	4166.6	5442.6	6547.6	6613.7
30°	3839.2	3815.0	3697.2	3569.8	3511.7	3645.6	4269.9	5673.3	7181.5	7299.3
32.5°	4766.7	4731.2	4515.1	4210.2	3903.7	3973.1	4455.4	5936.2	7871.9	8084.9
35°	5773.3	5763.6	5537.8	5084.5	4549.0	4439.3	4757.0	6281.4	8625.3	8964.0
37.5°	6708.9	6704.1	6575.0	6041.1	5389.4	5089.3	5241.0	6733.1	9431.8	9922.2
40°	7563.8	7578.4	7449.3	6971.8	6315.3	5923.3	5899.1	7291.2	10328.7	10965.9
42.5°	8302.6	8318.8	8188.1	7834.8	7229.9	6846.0	6707.3	7975.2	11204.6	12087.0
45°	8804.3	8904.3	8885.0	8602.7	8168.8	7770.3	7678.4	8833.4	12203.1	13275.8
47.5°	8946.3	9038.2	9183.4	9222.1	8957.6	8565.6	8675.3	9867.4	13212.9	14466.3
50°	8596.2	8681.7	8983.4	9385.0	9568.9	9447.9	9644.7	10975.6	14246.9	15653.6
52.5°	7905.8	7992.9	8373.6	9009.2	9759.3	10140.0	10617.4	12067.6	15248.7	16777.9
55°	6907.3	6999.3	7488.0	8207.5	9396.3	10425.5	11428.8	13158.1	16166.5	17789.3
57.5°	5549.1	5616.8	6125.0	7131.5	8483.3	10141.6	12027.3	14348.6	17031.1	18783.0
60°	3616.6	3676.3	4266.7	5389.4	6970.2	9193.1	12146.7	15676.1	18179.7	20075.1
62.5°	2405.1	2445.5	2795.5	3619.8	4908.7	7371.9	11448.2	16735.9	19863.8	22323.7
65°	1650.2	1690.5	2040.6	2614.8	3171.4	4876.4	9439.9	16595.6	21389.7	24109.4
67.5°	1177.6	1211.4	1508.3	2050.3	2295.4	2832.6	6399.2	14801.8	21170.4	24177.2
70°	843.7	863.0	1108.2	1597.0	1824.4	1701.8	3558.5	11320.8	18536.2	22325.3
72.5°	590.4	596.8	769.5	1216.3	1469.5	1242.1	1693.8	7547.7	14019.5	17523.1
75°	400.0	408.1	517.8	892.0	1179.2	948.5	896.9	4047.3	8230.1	9699.6
77.5°	245.2	248.4	333.9	609.8	882.4	722.7	577.5	1714.7	3184.3	3126.2
80°	138.7	138.7	212.9	379.1	601.7	466.2	404.9	729.1	1008.2	885.6
82.5°	77.4	79.0	154.9	235.5	398.4	275.8	222.6	337.1	435.5	385.5
85°	32.3	35.5	95.2	111.3	190.3	137.1	90.3	142.0	161.3	143.6
87.5°	3.2	4.8	29.0	21.0	22.6	27.4	12.9	27.4	22.6	22.6
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°
3711.8	0°	3711.8	3711.8	3711.8	3711.8	3711.8	3711.8	3711.8	3711.8	3711.8	3711.8
3766.6	2.5°	3735.9	3711.8	3650.5	3579.5	3485.9	3440.7	3379.5	3337.5	3302.0	3305.2
3860.2	5°	3808.5	3747.2	3610.1	3439.1	3226.2	3074.6	2913.3	2802.0	2711.6	2692.3
3989.2	7.5°	3908.5	3811.8	3571.4	3263.3	2903.6	2631.0	2387.4	2230.9	2119.6	2084.1
4145.7	10°	4037.6	3897.3	3521.4	3042.3	2524.5	2177.7	1916.4	1793.8	1718.0	1692.1
4329.6	12.5°	4187.6	3995.7	3455.3	2772.9	2134.1	1800.2	1634.1	1572.8	1548.6	1540.5
4555.4	15°	4376.3	4118.3	3355.3	2453.5	1803.4	1569.5	1498.6	1490.5	1493.7	1490.5
4826.4	17.5°	4600.6	4252.1	3192.3	2124.5	1580.8	1451.8	1426.0	1432.4	1440.5	1438.9
5129.7	20°	4845.8	4384.4	2984.2	1832.5	1429.2	1367.9	1353.4	1359.8	1366.3	1363.1
5479.7	22.5°	5124.8	4526.4	2753.6	1605.0	1327.6	1290.5	1274.4	1276.0	1276.0	1269.5
5923.3	25°	5458.7	4682.8	2511.6	1443.7	1250.2	1221.1	1201.8	1195.3	1185.6	1166.3
6462.1	27.5°	5857.2	4849.0	2279.3	1330.8	1188.9	1161.4	1138.9	1122.7	1098.5	1066.3
7108.9	30°	6305.6	5050.6	2082.5	1259.8	1140.5	1113.0	1087.2	1063.0	1027.5	987.2
7852.6	32.5°	6833.1	5266.8	1938.9	1213.1	1096.9	1067.9	1037.2	1008.2	969.5	929.1
8688.2	35°	7462.2	5528.1	1855.1	1180.8	1063.0	1024.3	990.4	958.2	929.1	893.7
9596.4	37.5°	8144.6	5805.6	1829.3	1164.7	1040.5	980.8	942.1	919.5	916.2	895.3
10578.7	40°	8891.4	6134.6	1848.6	1155.0	1016.3	938.8	896.9	892.0	900.1	863.0
11628.9	42.5°	9681.8	6525.0	1880.9	1143.7	982.4	896.9	856.6	856.6	850.1	798.5
12738.7	45°	10536.8	6975.1	1913.1	1116.3	942.1	854.9	824.3	813.0	785.6	735.6
13854.9	47.5°	11398.2	7433.2	1937.3	1066.3	893.7	819.5	792.0	766.2	725.9	680.7
14950.2	50°	12216.0	7844.5	1911.5	992.1	838.8	785.6	756.5	721.1	677.5	646.9
15987.5	52.5°	12946.8	8201.0	1801.8	905.0	780.7	750.1	724.3	687.2	651.7	619.4
16923.1	55°	13582.3	8489.8	1608.3	822.7	729.1	719.4	693.6	646.9	598.5	571.0
17850.6	57.5°	14192.1	8709.1	1366.3	754.9	682.3	685.6	646.9	604.9	559.7	530.7
19100.8	60°	15003.5	9002.7	1121.1	692.0	632.3	642.0	600.1	569.4	513.0	475.9
21244.6	62.5°	16300.4	9459.2	890.4	614.6	574.3	577.5	559.7	522.6	454.9	411.3
22833.5	65°	17329.6	9291.5	701.7	530.7	508.1	513.0	513.0	472.6	400.0	350.0
22919.0	67.5°	17213.4	7955.8	559.7	448.4	445.2	448.4	459.7	425.9	354.9	314.6
21173.6	70°	15856.8	6328.2	448.4	372.6	387.1	379.1	411.3	388.8	319.4	279.1
16414.9	72.5°	12938.7	4558.6	342.0	308.1	296.8	309.7	371.0	350.0	266.2	221.0
8694.6	75°	7560.6	2432.6	254.9	243.6	214.5	258.1	329.1	298.4	203.3	162.9
2664.8	77.5°	2461.6	848.5	187.1	179.1	159.7	208.1	280.7	251.6	166.1	129.0
780.7	80°	659.8	256.5	127.4	117.8	103.2	154.9	222.6	200.0	119.4	83.9
335.5	82.5°	264.5	108.1	74.2	66.1	56.5	106.5	175.8	161.3	88.7	53.2
104.9	85°	85.5	35.5	27.4	21.0	25.8	66.1	104.9	109.7	62.9	27.4
16.1	87.5°	11.3	4.8	4.8	6.5	4.8	11.3	32.3	30.6	17.7	3.2
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>
3711.8
3273.0
2648.7
2048.6
1672.8
1535.7
1488.9
1435.7
1361.5
1266.3
1163.0
1063.0
984.0
930.8
890.4
893.7
864.6
798.5
734.0
679.1
642.0
616.2
567.8
527.5
471.0
408.1
345.2
<b>308.1</b>
274.2
216.2
158.1
124.2
82.3
53.2
21.0
0.0
0.0

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