

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: P941925

Luminaire Tested: **GALN-SB5C-940-U-T2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941925  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB5C-940-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

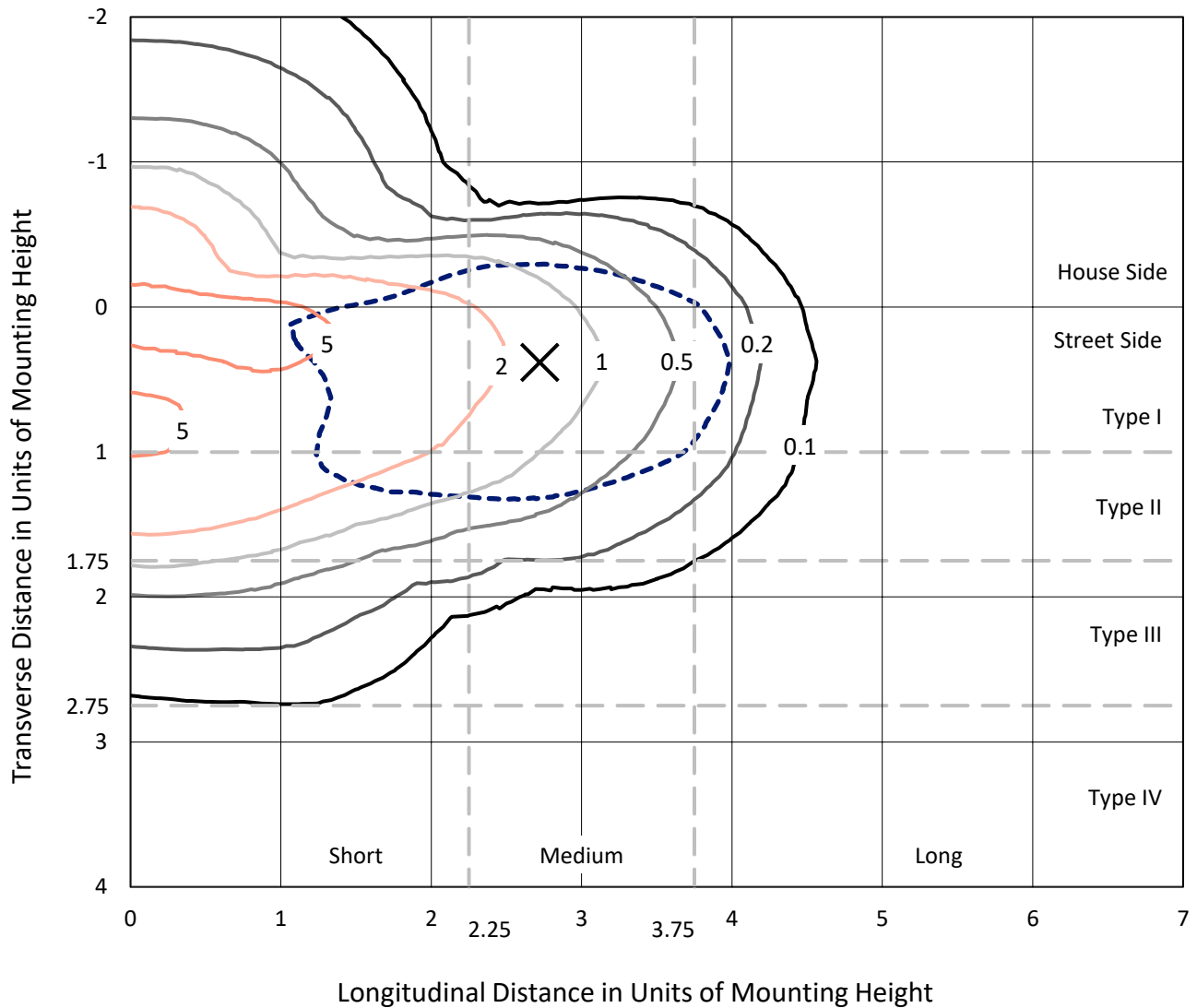
Lumens per Lamp: N/A  
Luminaire Lumens: 27163 lumens  
Efficiency: N/A  
Efficacy: 108.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 249.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

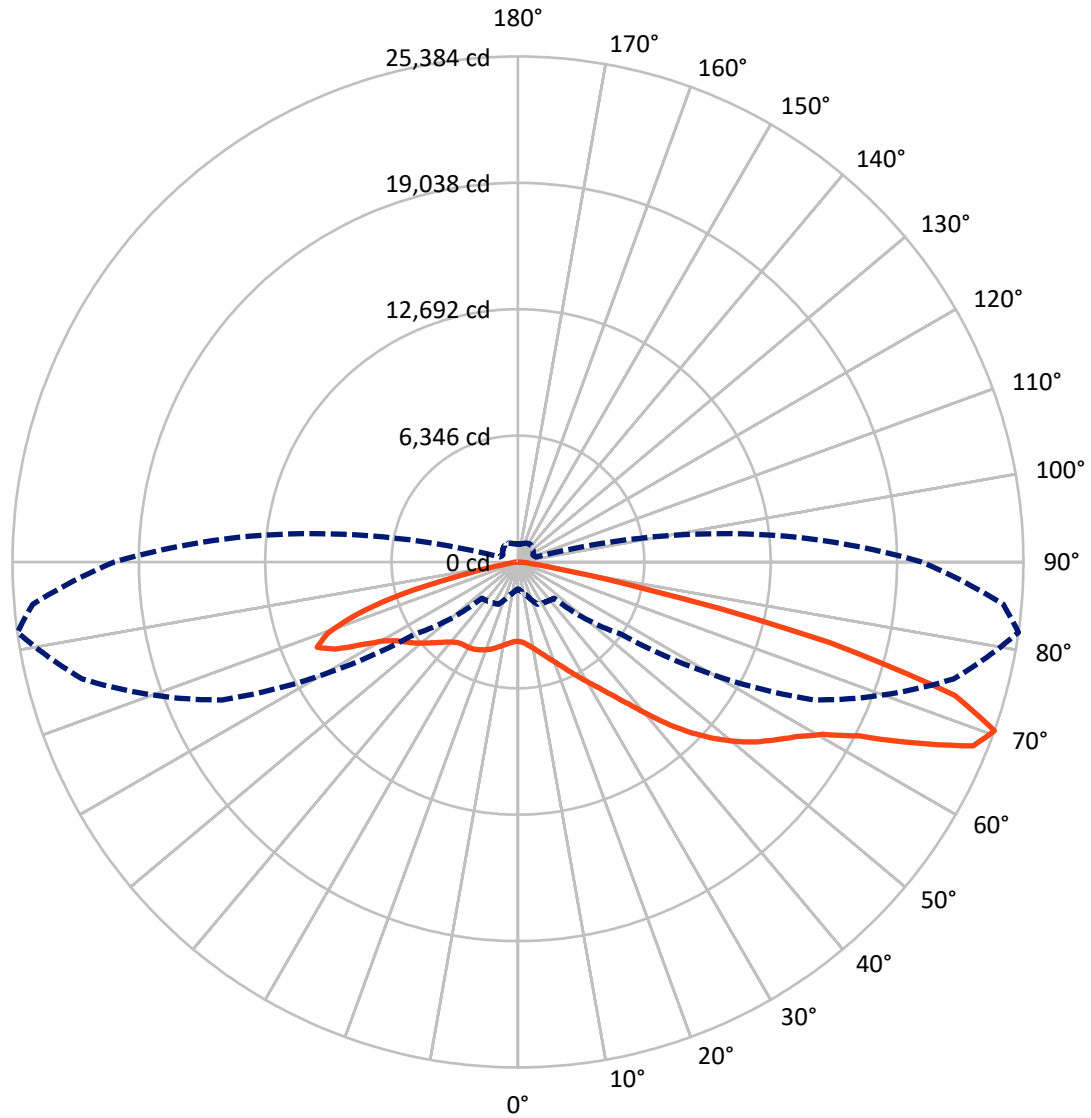
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6696.3	0.0	6696.3
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	20466.7	0.0	20466.7
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	27163.0	0.0	27163.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	376.0	1.4
10°-20°	1080.3	4.0
20°-30°	1807.2	6.7
30°-40°	2823.4	10.4
40°-50°	4496.6	16.6
50°-60°	6257.5	23.0
60°-70°	6545.6	24.1
70°-80°	3421.1	12.6
80°-90°	355.2	1.3
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°	27163.0	100.0
0°-180°	27163.0	100.0

**Coefficient of Utilization**



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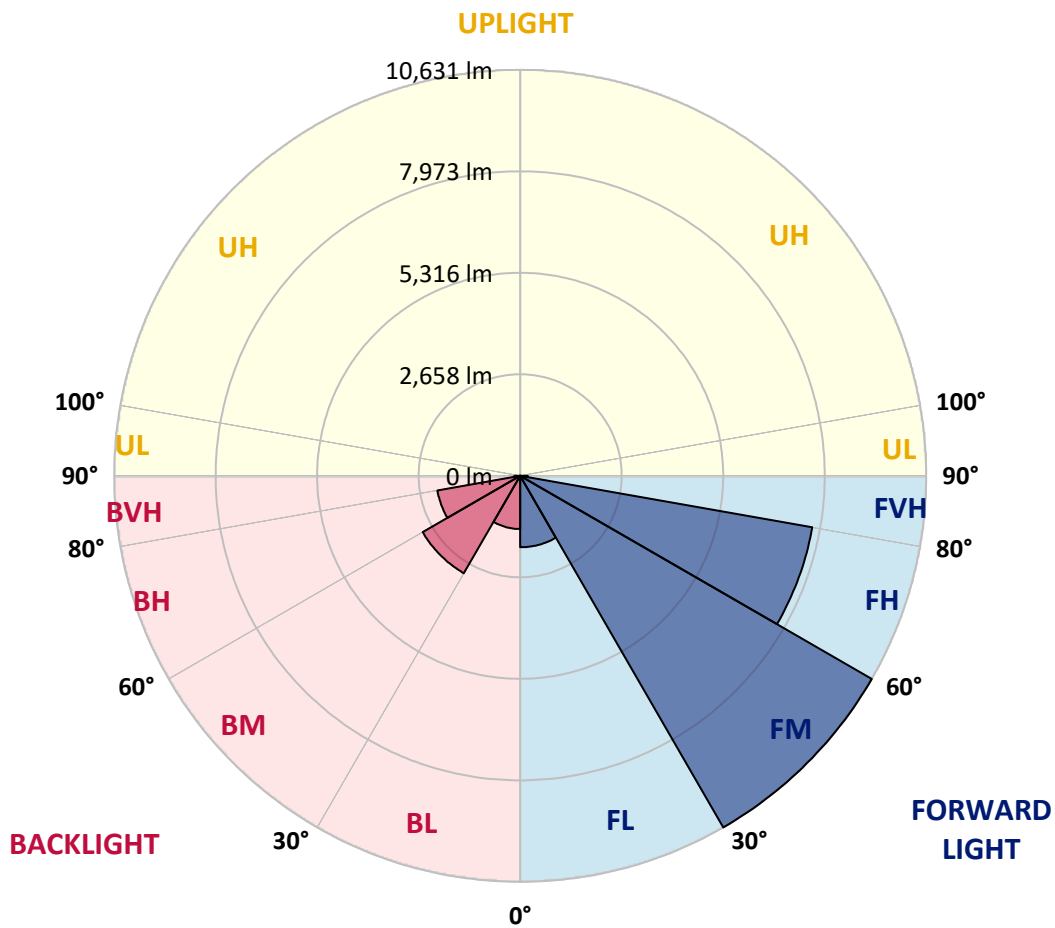
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1870.5	6.9			
FM (30°-60°)	10631.3	39.1			
FH (60°-80°)	7766.0	28.6			G4/12000
FVH (80°-90°)	198.9	0.7			G2/225
BL (0°-30°)	1393.1	5.1	B3/2500		
BM (30°-60°)	2946.1	10.8	B3/5000		
BH (60°-80°)	2200.8	8.1	B3/2500		G3/2500
BVH (80°-90°)	156.4	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	3982.4	3982.4	3982.4	3982.4	3982.4	3982.4	3982.4	3982.4	3982.4	3982.4
2.5°	4077.6	4100.6	4093.4	4086.2	4086.2	4076.1	4074.7	4060.3	4048.7	4030.0
5°	4129.5	4154.0	4151.1	4156.8	4175.6	4179.9	4184.2	4175.6	4152.5	4129.5
7.5°	4083.3	4110.7	4119.4	4154.0	4211.6	4263.5	4302.4	4318.3	4296.6	4263.5
10°	3927.7	3957.9	3988.2	4070.4	4172.7	4295.2	4399.0	4461.0	4456.6	4424.9
12.5°	3612.0	3643.7	3708.6	3868.6	4055.9	4272.1	4465.3	4595.0	4639.7	4616.6
15°	3359.8	3387.2	3436.2	3600.5	3844.1	4172.7	4489.8	4742.0	4855.9	4842.9
17.5°	3352.6	3364.1	3394.4	3472.2	3659.6	4017.0	4463.8	4886.2	5103.8	5102.4
20°	3479.4	3483.7	3501.0	3516.9	3623.5	3898.8	4397.5	5005.8	5382.0	5382.0
22.5°	3655.3	3652.4	3669.7	3655.3	3707.1	3888.7	4355.7	5111.0	5691.9	5714.9
25°	3919.0	3904.6	3900.3	3867.1	3877.2	3982.4	4401.9	5230.6	6059.4	6107.0
27.5°	4270.7	4247.6	4231.8	4155.4	4129.5	4175.6	4543.1	5374.8	6468.8	6550.9
30°	4729.1	4687.3	4664.2	4531.6	4437.9	4445.1	4756.4	5566.5	6896.8	7029.4
32.5°	5354.6	5289.7	5227.8	5010.1	4838.6	4782.4	5031.7	5831.7	7360.9	7572.8
35°	6055.1	6003.2	5936.9	5601.1	5337.3	5207.6	5403.6	6202.1	7904.3	8240.2
37.5°	6729.6	6685.0	6716.7	6264.1	5923.9	5735.1	5890.8	6699.4	8574.6	9070.4
40°	7427.2	7392.7	7397.0	6964.6	6568.2	6356.3	6481.7	7323.5	9342.8	10057.7
42.5°	8185.4	8159.5	8073.0	7689.6	7244.2	7046.7	7162.0	8044.1	10167.2	11182.0
45°	9034.3	9018.5	8937.8	8498.2	7987.9	7766.0	7921.6	8839.8	10996.0	12239.9
47.5°	9768.0	9781.0	9770.9	9400.5	8871.5	8545.7	8731.7	9670.0	11767.1	13234.4
50°	10121.1	10188.9	10288.3	10173.0	9844.4	9512.9	9548.9	10471.4	12502.2	14167.0
52.5°	9936.6	10064.9	10335.9	10520.4	10647.2	10578.0	10481.5	11267.0	13194.1	15008.7
55°	9249.1	9429.3	9879.0	10324.4	10971.5	11474.5	11601.4	12149.1	13868.6	15749.6
57.5°	7996.6	8289.2	8692.8	9593.6	10683.2	11908.4	12907.2	13372.8	14583.5	16540.9
60°	5849.0	6241.0	6742.6	8083.1	9674.3	11676.3	14018.5	15252.3	15599.7	17565.7
62.5°	3743.2	3985.3	4446.5	5709.2	7538.2	10487.2	14358.7	17601.7	17322.1	19246.3
65°	2562.7	2718.4	3140.7	3849.8	4873.2	7806.3	13447.7	19363.0	20057.8	21909.9
67.5°	1862.2	1980.4	2340.7	2962.0	3175.3	4619.5	10435.3	19282.3	22717.0	24654.2
70°	1357.7	1441.3	1744.0	2340.7	2443.1	2569.9	6321.7	16391.0	22659.4	25383.5
72.5°	1006.1	1063.7	1266.9	1816.1	1977.5	1735.4	3129.2	11912.7	19471.1	22959.2
75°	727.9	771.1	921.0	1389.5	1582.6	1321.7	1561.0	6961.7	13581.8	16150.3
77.5°	556.4	589.5	687.5	1017.6	1266.9	991.6	968.6	3202.7	6439.9	6471.6
80°	446.8	468.4	521.8	716.3	971.5	742.3	631.3	1292.9	2035.2	1722.4
82.5°	328.6	364.7	441.1	503.0	694.7	511.7	384.8	652.9	774.0	665.9
85°	187.4	211.9	266.6	360.3	443.9	312.8	220.5	289.7	360.3	295.5
87.5°	66.3	86.5	93.7	141.3	193.1	129.7	85.0	83.6	118.2	87.9
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°
3982.4	0°	3982.4	3982.4	3982.4	3982.4	3982.4	3982.4	3982.4	3982.4	3982.4	3982.4
4025.7	2.5°	4011.3	4004.1	3975.2	3936.3	3896.0	3857.0	3844.1	3816.7	3797.9	3787.9
4119.4	5°	4092.0	4068.9	4001.2	3914.7	3823.9	3725.9	3656.7	3593.3	3547.1	3503.9
4247.6	7.5°	4207.3	4166.9	4050.2	3898.8	3737.4	3574.5	3453.5	3361.2	3299.2	3258.9
4397.5	10°	4341.3	4279.4	4100.6	3874.3	3625.0	3391.5	3248.8	3169.5	3130.6	3109.0
4569.1	12.5°	4495.6	4407.6	4152.5	3818.1	3453.5	3186.8	3088.8	3065.7	3067.2	3068.6
4785.3	15°	4685.8	4563.3	4194.3	3695.6	3230.1	3029.7	3012.4	3049.9	3088.8	3107.5
5030.3	17.5°	4900.6	4727.6	4201.5	3493.8	3011.0	2928.8	2983.6	3064.3	3123.4	3149.3
5304.1	20°	5131.2	4894.8	4149.6	3208.4	2830.8	2846.7	2944.7	3048.4	3113.3	3146.5
5616.9	22.5°	5395.0	5073.5	4025.7	2908.6	2683.8	2757.3	2872.6	2973.5	3041.2	3074.4
5984.5	25°	5696.2	5273.9	3831.1	2656.4	2556.9	2656.4	2771.7	2855.3	2910.1	2940.3
6395.2	27.5°	6030.6	5482.9	3571.7	2456.1	2446.0	2552.6	2647.8	2712.6	2741.4	2764.5
6832.0	30°	6366.4	5673.1	3257.4	2304.7	2349.4	2450.3	2518.0	2546.9	2555.5	2559.8
7319.1	32.5°	6729.6	5837.4	2927.4	2179.3	2257.1	2350.8	2391.2	2404.2	2363.8	2336.4
7910.1	35°	7169.2	6013.3	2604.5	2079.9	2166.3	2247.1	2260.0	2248.5	2200.9	2144.7
8651.0	37.5°	7712.6	6232.4	2346.5	2009.2	2081.3	2134.6	2118.8	2115.9	2120.2	2053.9
9541.7	40°	8378.5	6517.8	2157.7	1954.5	2012.1	2023.6	1979.0	2003.5	2025.1	1924.2
10518.9	42.5°	9117.9	6862.2	2038.1	1917.0	1954.5	1927.1	1857.9	1885.3	1882.4	1749.8
11500.5	45°	9871.8	7237.0	1996.3	1889.6	1901.1	1846.4	1770.0	1777.2	1716.6	1597.0
12441.7	47.5°	10621.3	7639.1	2022.2	1866.5	1834.8	1772.9	1713.8	1682.0	1592.7	1503.3
13344.0	50°	11356.4	8061.4	2117.3	1820.4	1744.0	1708.0	1664.8	1608.5	1513.4	1437.0
14197.2	52.5°	12038.1	8486.6	2224.0	1744.0	1630.2	1651.8	1624.4	1559.5	1465.8	1388.0
15004.4	55°	12683.8	8911.8	2265.8	1638.8	1523.5	1602.8	1586.9	1467.3	1354.9	1291.4
15849.0	57.5°	13387.2	9423.5	2219.7	1504.8	1437.0	1546.6	1486.0	1353.4	1288.6	1241.0
16948.8	60°	14361.6	10226.3	2120.2	1339.0	1354.9	1463.0	1359.2	1304.4	1233.8	1180.5
18597.7	62.5°	15980.2	11723.9	1960.2	1174.7	1258.3	1339.0	1298.7	1243.9	1171.8	1119.9
21416.9	65°	18372.8	13805.2	1659.0	1046.4	1150.2	1217.9	1233.8	1179.0	1104.1	1049.3
23887.4	67.5°	20390.7	15111.1	1255.4	939.8	1039.2	1119.9	1164.6	1111.3	1032.0	978.7
24465.4	70°	20279.7	14162.7	958.5	834.5	941.2	1023.4	1081.0	1039.2	954.2	903.7
22222.7	72.5°	18012.5	11847.9	775.4	727.9	841.7	922.5	991.6	959.9	873.5	824.4
16280.0	75°	13233.0	8410.2	619.8	619.8	717.8	817.2	893.6	873.5	794.2	759.6
6834.9	77.5°	5578.0	3528.4	485.7	514.6	596.7	701.9	797.1	804.3	735.1	778.3
1807.4	80°	1483.1	972.9	370.4	405.0	468.4	579.4	693.3	690.4	615.5	575.1
671.7	82.5°	565.0	383.4	263.8	285.4	338.7	443.9	549.2	566.4	491.5	425.2
263.8	85°	217.6	164.3	162.9	171.5	197.5	294.0	415.1	429.5	370.4	314.2
73.5	87.5°	56.2	49.0	60.5	57.7	90.8	157.1	237.8	246.5	226.3	131.2
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>
3982.4
3799.4
3521.2
3267.5
3114.7
3071.5
3106.1
3155.1
3155.1
3083.0
2949.0
2773.1
2569.9
2345.1
2147.6
2058.2
1927.1
1748.4
1601.3
1503.3
1431.3
1389.5
1285.7
1236.7
1177.6
1119.9
1052.2
980.1
<i>908.0</i>
824.4
749.5
706.3
534.7
425.2
324.3
187.4
0.0

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