

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: P948280

Luminaire Tested: **GALN-SB3B-850-U-SL2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P948280  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB3B-850-U-SL2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

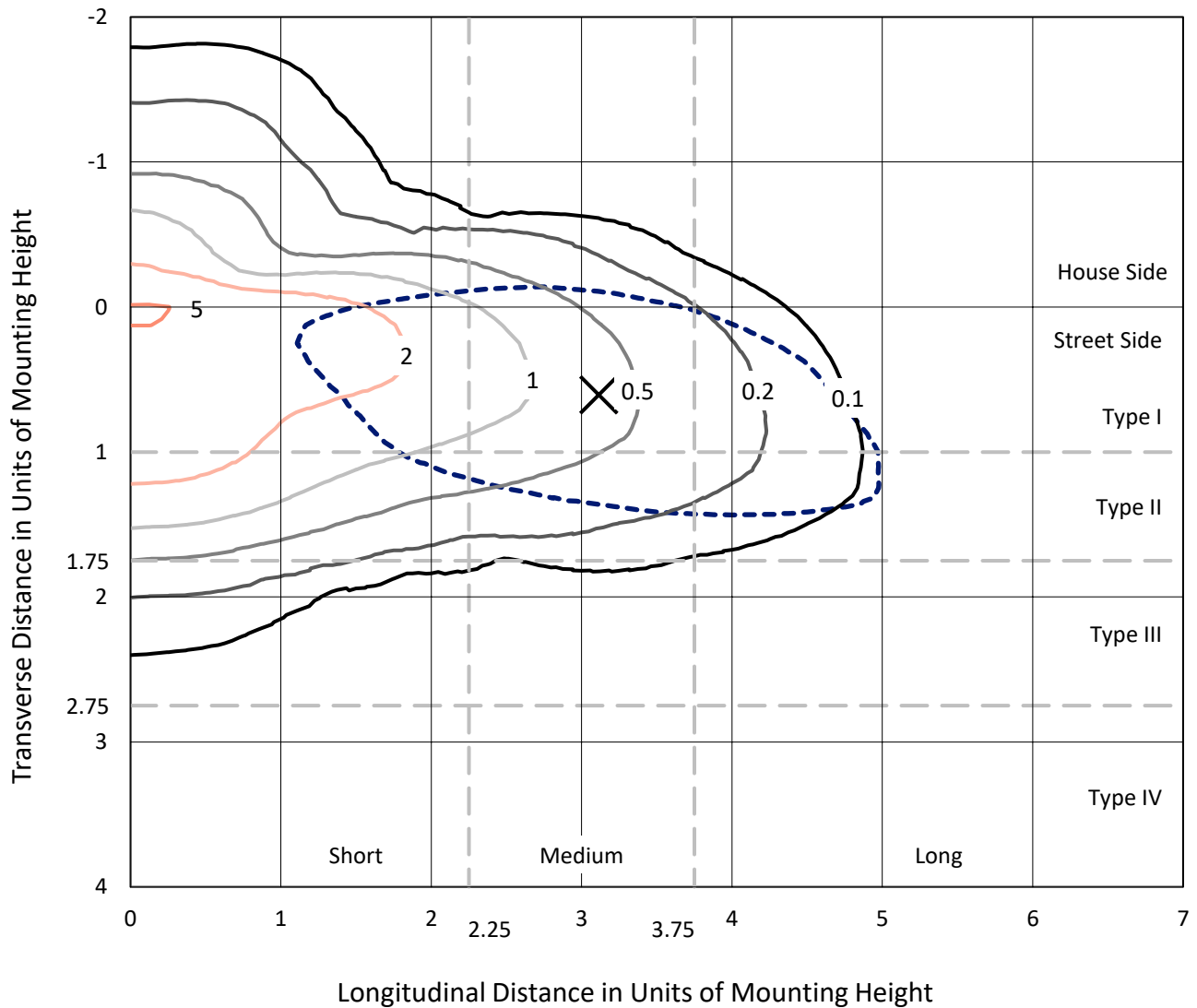
Lumens per Lamp: N/A  
Luminaire Lumens: 16063 lumens  
Efficiency: N/A  
Efficacy: 147.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 109.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

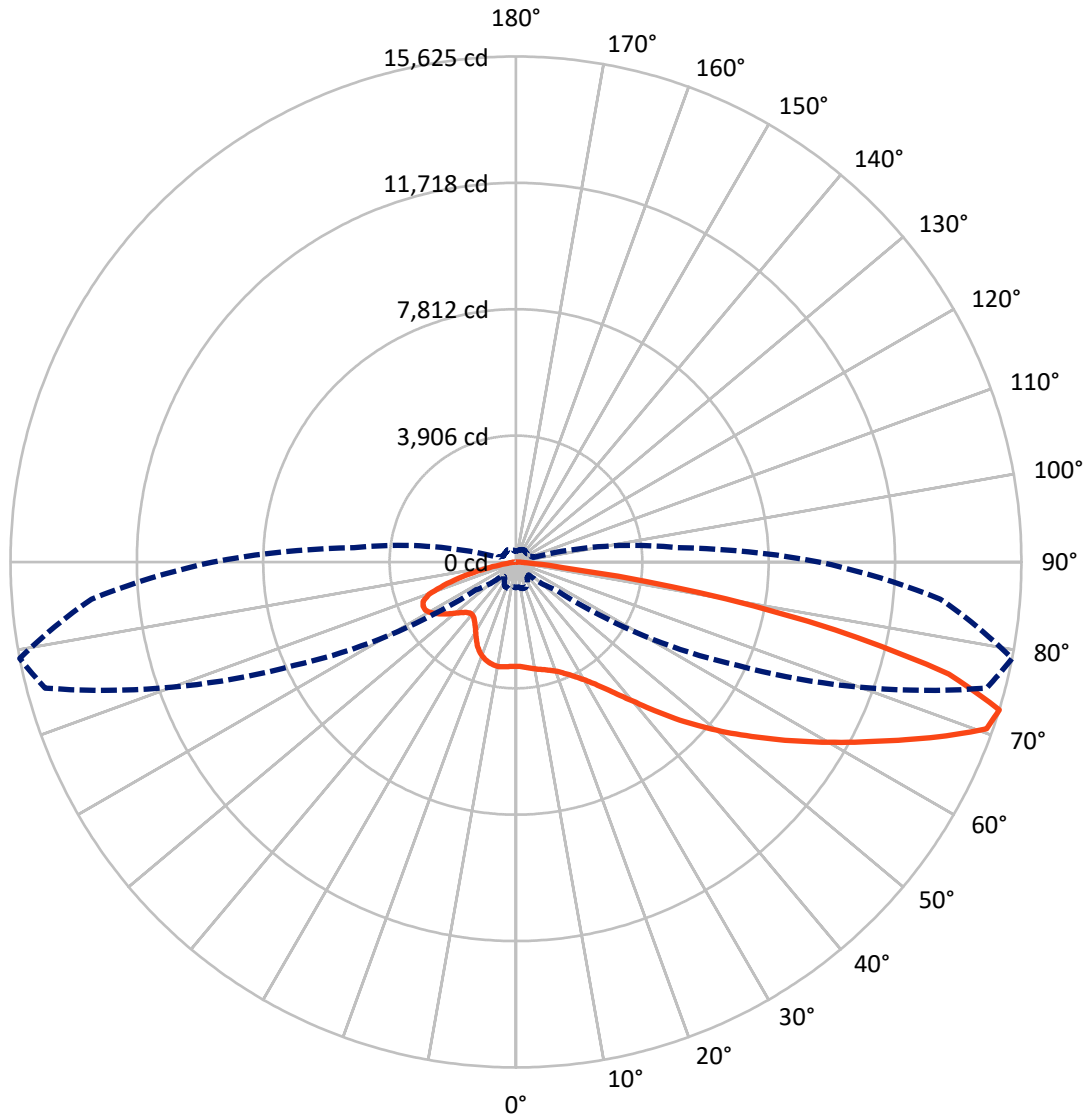
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3534.7	0.0	3534.7
	% Fixture	22.0	0.0	22.0
<b>Street Side</b>	Lumens	12528.3	0.0	12528.3
	% Fixture	78.0	0.0	78.0
<b>Total</b>	Lumens	16063.0	0.0	16063.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	292.7	1.8
10°-20°	765.2	4.8
20°-30°	1234.8	7.7
30°-40°	1853.2	11.5
40°-50°	2628.9	16.4
50°-60°	3320.0	20.7
60°-70°	3371.9	21.0
70°-80°	2298.1	14.3
80°-90°	298.2	1.9
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°	16063.0	100.0
0°-180°	16063.0	100.0

**Coefficient of Utilization**



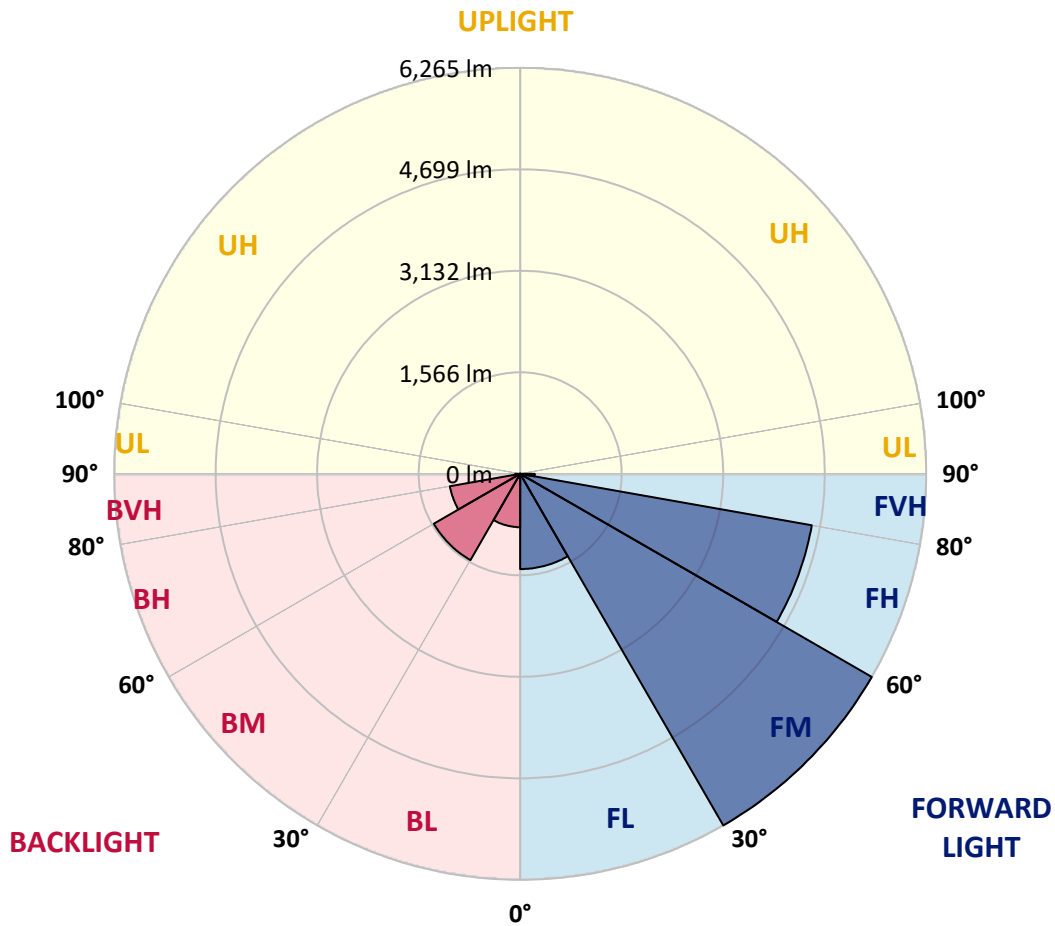
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1469.4	9.1			
FM (30°-60°)	6264.9	39.0			
FH (60°-80°)	4569.4	28.4			G2/5000
FVH (80°-90°)	224.6	1.4			G2/225
BL (0°-30°)	823.3	5.1	B2/1000		
BM (30°-60°)	1537.2	9.6	B2/2500		
BH (60°-80°)	1100.6	6.9	B3/2500		G3/2500
BVH (80°-90°)	73.5	0.5			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°	79°
0°	3224.5	3224.5	3224.5	3224.5	3224.5	3224.5	3224.5	3224.5	3224.5	3224.5
2.5°	3226.2	3210.9	3220.2	3216.8	3221.1	3226.2	3227.9	3230.4	3238.9	3238.1
5°	3219.4	3204.1	3216.8	3212.6	3223.6	3235.5	3245.7	3255.1	3268.7	3274.6
7.5°	3205.0	3194.8	3207.5	3220.2	3240.6	3258.5	3272.9	3294.2	3313.7	3317.1
10°	3120.8	3113.2	3142.9	3176.1	3232.1	3280.6	3312.0	3336.7	3357.9	3361.3
12.5°	3033.3	3024.0	3057.1	3102.1	3193.1	3280.6	3346.8	3379.1	3397.8	3408.9
15°	3018.9	3011.2	3029.9	3069.0	3144.6	3257.6	3370.6	3430.1	3446.3	3459.0
17.5°	3088.5	3074.1	3081.8	3095.3	3139.5	3236.4	3389.3	3487.9	3512.5	3526.1
20°	3250.0	3229.6	3217.7	3190.5	3182.9	3239.8	3387.6	3557.6	3589.9	3606.8
22.5°	3465.0	3451.4	3425.9	3357.0	3282.3	3281.4	3419.9	3646.8	3707.1	3723.3
25°	3724.9	3704.6	3672.3	3578.8	3435.2	3363.8	3474.3	3760.6	3861.7	3866.0
27.5°	4024.0	3993.4	3949.3	3826.1	3632.3	3493.0	3557.6	3891.5	4039.3	4037.6
30°	4339.3	4308.7	4261.9	4112.4	3868.5	3667.2	3673.1	4032.5	4250.0	4240.7
32.5°	4569.5	4546.6	4537.2	4421.7	4140.4	3872.8	3805.7	4188.9	4510.0	4501.5
35°	4746.3	4716.5	4727.6	4668.9	4437.0	4103.1	3968.0	4374.9	4826.1	4825.3
37.5°	4921.3	4894.9	4904.3	4865.2	4711.4	4395.3	4165.9	4602.7	5217.8	5236.5
40°	5081.0	5053.0	5090.4	5053.8	4924.7	4706.3	4391.1	4860.1	5671.5	5707.2
42.5°	5177.0	5154.9	5217.0	5217.8	5109.9	4968.9	4638.3	5143.9	6196.6	6276.5
45°	5210.2	5202.5	5296.0	5315.5	5273.9	5121.0	4861.0	5453.2	6762.5	6905.3
47.5°	5174.5	5160.0	5289.2	5361.4	5394.5	5192.3	5045.3	5787.9	7340.3	7549.3
50°	4994.4	4966.3	5158.3	5310.4	5428.5	5239.1	5231.4	6174.5	7997.1	8225.6
52.5°	4670.6	4649.4	4867.8	5132.0	5353.8	5262.0	5440.4	6596.8	8620.7	8916.4
55°	4256.8	4228.8	4469.3	4814.2	5167.7	5254.4	5649.5	7069.2	9356.6	9656.5
57.5°	3600.9	3544.8	3849.0	4256.8	4864.4	5245.0	5867.0	7539.1	10104.3	10463.7
60°	2644.2	2560.9	2933.9	3417.4	4271.3	5154.1	6136.3	8065.9	11001.5	11325.2
62.5°	1539.6	1491.2	1735.0	2186.2	3219.4	4618.8	6287.6	8678.5	11883.5	12223.3
65°	1195.5	1181.9	1203.1	1238.0	1792.0	3458.2	5821.1	9275.8	13005.0	13242.9
67.5°	1093.5	1083.3	1092.7	1027.3	909.1	1926.2	4605.2	9427.1	14206.5	14350.9
70°	972.0	960.1	990.7	934.6	715.4	876.0	2975.5	8878.2	15162.3	15433.4
72.5°	791.9	778.3	849.7	824.2	602.4	562.5	1494.6	7574.0	15062.1	15624.6
75°	608.4	600.7	685.7	706.9	491.1	442.7	717.1	5629.9	13254.8	13821.6
77.5°	472.4	466.5	509.8	587.1	395.9	343.3	441.0	3571.2	9988.7	10088.1
80°	354.3	337.3	377.3	454.6	308.4	250.7	299.1	2082.5	6313.9	5723.4
82.5°	221.8	213.3	246.4	303.3	217.5	172.5	194.6	1150.5	2530.3	1490.3
85°	126.6	123.2	134.2	173.3	118.1	99.4	111.3	508.1	462.2	317.8
87.5°	51.0	49.3	61.2	77.3	43.3	36.5	39.1	122.4	102.0	94.3
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°
3224.5	0°	3224.5	3224.5	3224.5	3224.5	3224.5	3224.5	3224.5	3224.5	3224.5	3224.5
3237.2	2.5°	3233.8	3233.8	3221.9	3203.3	3182.0	3168.4	3146.3	3140.4	3117.4	3110.6
3266.1	5°	3272.9	3266.1	3229.6	3176.9	3104.7	3038.4	2965.3	2919.5	2854.9	2831.9
3323.1	7.5°	3322.2	3303.5	3240.6	3125.1	2973.8	2825.2	2670.5	2553.3	2441.1	2401.2
3369.8	10°	3367.2	3340.9	3233.8	3031.6	2769.9	2512.5	2266.1	2093.6	1962.7	1909.2
3421.6	12.5°	3412.3	3363.8	3188.8	2876.1	2480.2	2131.0	1868.4	1734.2	1653.5	1588.9
3464.1	15°	3454.8	3386.8	3119.1	2668.0	2162.4	1808.1	1614.4	1507.3	1442.7	1400.3
3526.1	17.5°	3504.0	3406.3	3014.6	2403.7	1859.9	1584.6	1426.6	1362.0	1349.3	1344.2
3611.1	20°	3572.9	3424.2	2877.0	2108.0	1637.3	1406.2	1324.6	1318.7	1317.8	1315.3
3713.1	22.5°	3646.8	3445.4	2695.2	1839.5	1447.8	1294.9	1280.5	1268.6	1260.9	1260.1
3836.3	25°	3734.3	3452.2	2467.4	1619.5	1286.4	1242.2	1225.2	1207.4	1202.3	1202.3
3976.5	27.5°	3819.3	3429.3	2202.3	1428.3	1195.5	1193.8	1171.7	1165.7	1164.9	1167.4
4136.2	30°	3904.2	3385.9	1938.9	1251.6	1142.8	1142.8	1135.2	1139.4	1142.8	1151.3
4355.4	32.5°	4018.9	3340.0	1718.9	1120.7	1096.9	1088.4	1096.1	1104.6	1108.0	1119.0
4643.4	35°	4187.2	3307.8	1543.8	1049.3	1049.3	1038.3	1042.5	1040.8	1033.2	1028.1
4991.8	37.5°	4409.8	3306.1	1399.4	1016.2	1009.4	1007.7	1008.6	997.5	967.8	932.1
5413.2	40°	4677.4	3351.9	1288.1	993.3	988.2	998.4	993.3	963.5	882.0	819.9
5931.5	42.5°	5036.8	3482.8	1216.7	965.2	980.5	993.3	972.9	870.1	814.8	773.2
6522.1	45°	5460.0	3695.2	1180.2	935.5	966.1	981.4	882.8	837.8	793.6	743.5
7166.1	47.5°	5939.2	3962.9	1171.7	907.4	933.8	943.1	844.6	824.2	774.0	719.7
7813.6	50°	6460.9	4279.8	1194.6	874.3	887.1	854.8	831.8	813.1	761.3	707.8
8477.1	52.5°	7000.4	4629.0	1240.5	829.3	840.3	804.6	826.7	810.6	753.7	681.4
9162.8	55°	7530.6	4980.8	1284.7	776.6	792.7	759.6	812.3	800.4	718.8	637.3
9894.4	57.5°	8069.3	5330.8	1328.0	729.9	746.9	716.3	789.3	773.2	679.7	596.5
10693.1	60°	8629.2	5670.7	1348.4	684.8	696.7	676.3	754.5	726.5	635.6	554.8
11478.2	62.5°	9153.5	5953.6	1315.3	639.8	647.4	639.0	708.6	671.2	591.4	508.1
12296.4	65°	9679.4	6121.9	1213.3	595.6	597.3	593.1	644.0	611.8	539.5	467.3
13012.7	67.5°	10156.1	6216.2	1051.0	548.0	543.8	542.1	583.7	547.2	489.4	426.5
13557.3	70°	10257.2	5976.6	802.9	492.0	492.0	487.7	517.4	480.1	434.2	383.2
13167.3	72.5°	9368.5	5027.5	570.1	428.2	435.0	426.5	451.2	419.7	378.1	344.1
11348.2	75°	7554.4	3686.7	414.6	362.8	374.7	360.3	383.2	361.1	325.4	324.6
7820.4	77.5°	5190.6	2279.7	300.8	299.1	307.6	288.9	315.2	303.3	271.0	256.6
3403.8	80°	2215.1	909.1	219.2	231.1	231.1	214.1	244.7	248.1	220.1	213.3
656.8	82.5°	441.0	258.3	153.8	158.9	149.5	144.4	173.3	192.0	265.1	294.8
198.0	85°	132.5	95.2	92.6	86.7	76.5	77.3	102.0	192.9	237.9	135.9
65.4	87.5°	36.5	23.8	24.6	19.5	16.1	21.2	34.8	146.1	79.9	34.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

<u>180°</u>
3224.5
3121.7
2848.9
2406.3
1921.1
1610.1
1407.9
1347.6
1323.8
1269.4
1207.4
1174.2
1157.2
1128.4
1040.0
932.9
818.2
771.5
740.1
715.4
701.8
676.3
633.0
594.8
552.3
507.3
462.2
421.4
381.5
333.9
292.3
240.5
213.3
295.7
117.3
28.9
0.0

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