

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: P941692

Luminaire Tested: **GALN-SB5B-835-U-SL4**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941692  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB5B-835-U-SL4  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

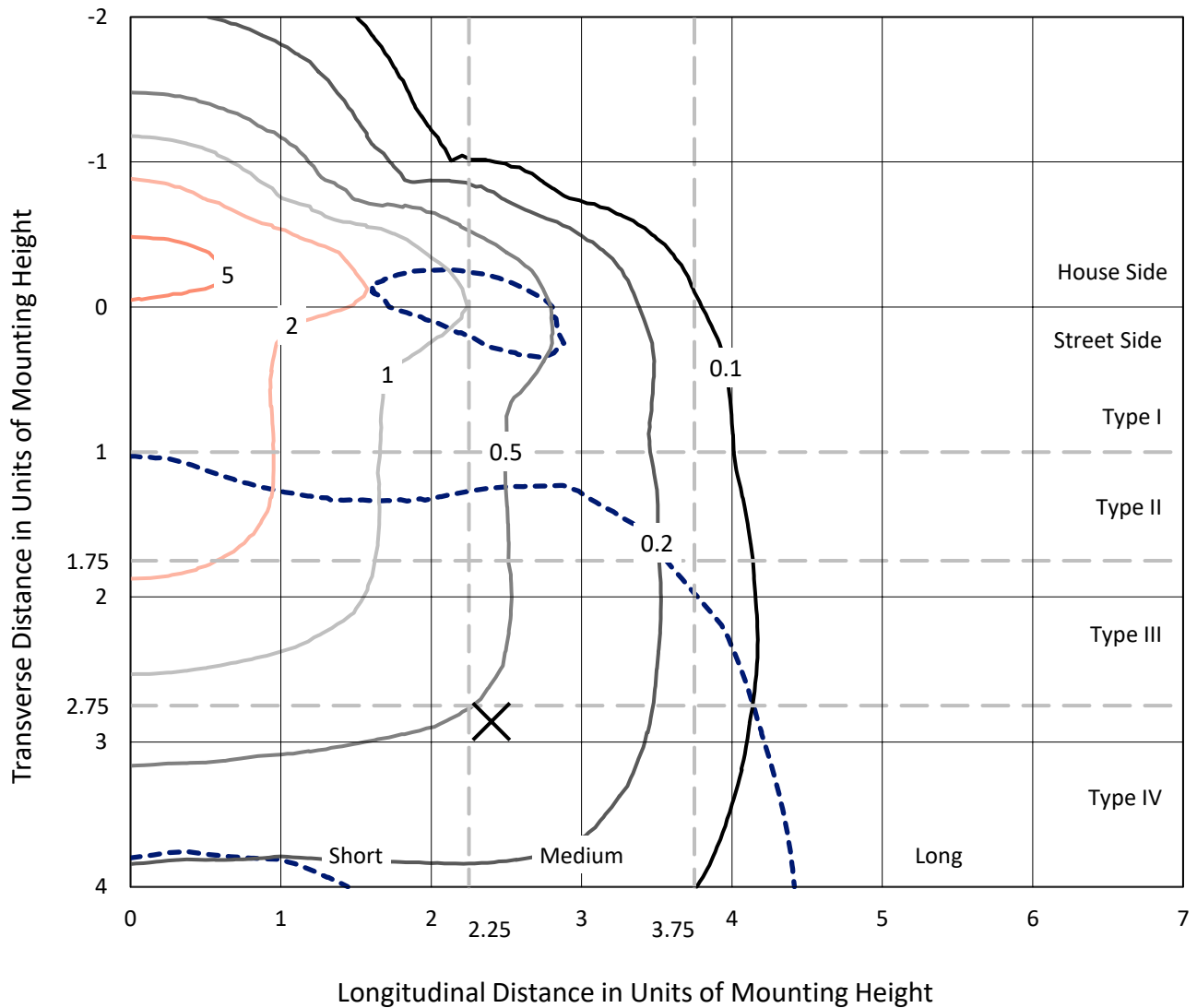
Lumens per Lamp: N/A  
Luminaire Lumens: 26153 lumens  
Efficiency: N/A  
Efficacy: 143.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 182.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

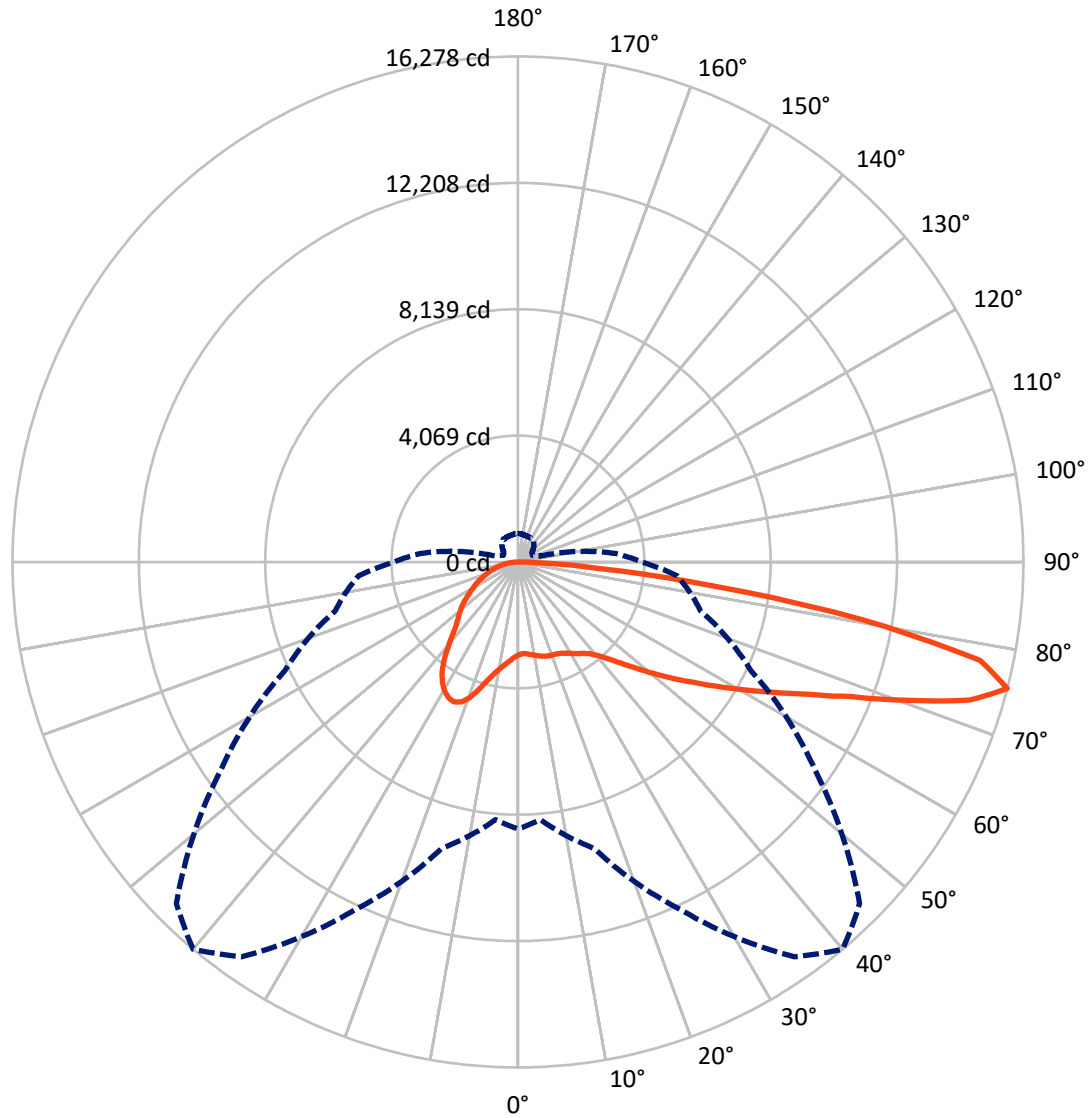
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8103.1	0.0	8103.1
	% Fixture	31.0	0.0	31.0
<b>Street Side</b>	Lumens	18049.9	0.0	18049.9
	% Fixture	69.0	0.0	69.0
<b>Total</b>	Lumens	26153.0	0.0	26153.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	298.5	1.1
10°-20°	1002.3	3.8
20°-30°	1830.1	7.0
30°-40°	2595.5	9.9
40°-50°	3504.8	13.4
50°-60°	4714.9	18.0
60°-70°	5984.2	22.9
70°-80°	5431.1	20.8
80°-90°	791.7	3.0
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°	26153.0	100.0
0°-180°	26153.0	100.0

**Coefficient of Utilization**



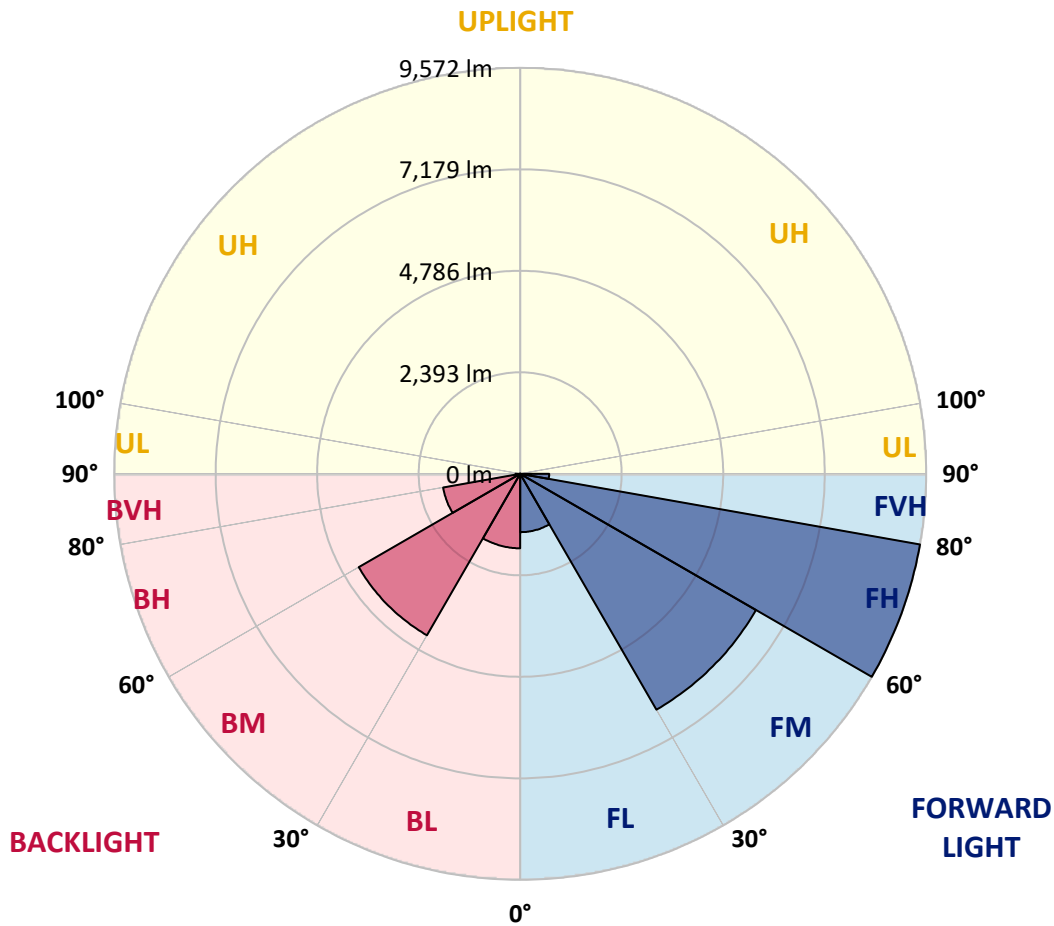
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1375.7	5.3			
FM (30°-60°)	6420.0	24.5			
FH (60°-80°)	9571.6	36.6			G4/12000
FVH (80°-90°)	682.7	2.6			G4/750
BL (0°-30°)	1755.2	6.7	B3/2500		
BM (30°-60°)	4395.2	16.8	B3/5000		
BH (60°-80°)	1843.7	7.0	B3/2500		G3/2500
BVH (80°-90°)	109.0	0.4			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 IV Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	2990.6	2990.6	2990.6	2990.6	2990.6	2990.6	2990.6	2990.6	2990.6	2990.6
2.5°	2944.9	2961.5	2957.3	2951.8	2951.8	2953.2	2951.8	2961.5	2971.2	2980.9
5°	2975.4	2992.0	2983.7	2976.8	2971.2	2969.8	2965.7	2964.3	2969.8	2982.3
7.5°	3035.0	3051.7	3039.2	3026.7	3015.6	3010.1	3004.5	2996.2	2992.0	2999.0
10°	3101.6	3118.2	3103.0	3080.8	3062.8	3055.8	3050.3	3042.0	3036.4	3040.6
12.5°	3168.2	3184.8	3164.0	3133.5	3109.9	3105.8	3098.8	3096.1	3094.7	3093.3
15°	3230.6	3244.5	3218.1	3182.1	3157.1	3150.1	3143.2	3147.4	3154.3	3162.6
17.5°	3279.2	3293.0	3254.2	3207.0	3183.4	3180.7	3176.5	3190.4	3209.8	3230.6
20°	3323.5	3337.4	3287.5	3223.7	3195.9	3195.9	3197.3	3226.4	3254.2	3284.7
22.5°	3386.0	3397.1	3336.0	3248.6	3208.4	3211.2	3222.3	3251.4	3286.1	3327.7
25°	3478.9	3487.2	3412.3	3295.8	3250.0	3258.3	3268.1	3281.9	3315.2	3363.8
27.5°	3628.7	3635.6	3537.2	3379.0	3309.7	3323.5	3337.4	3327.7	3343.0	3384.6
30°	3839.5	3843.7	3718.9	3509.4	3410.9	3417.9	3420.6	3380.4	3351.3	3384.6
32.5°	4089.2	4087.8	3939.4	3667.5	3526.1	3519.1	3495.5	3416.5	3348.5	3377.6
35°	4476.2	4461.0	4269.6	3889.5	3656.4	3613.4	3558.0	3456.7	3362.4	3370.7
37.5°	5117.1	5069.9	4805.0	4252.9	3850.6	3741.1	3659.2	3521.9	3392.9	3367.9
40°	5839.8	5780.1	5488.8	4750.9	4141.9	3965.8	3834.0	3614.8	3442.8	3380.4
42.5°	6697.0	6612.4	6298.9	5337.6	4510.9	4255.7	4057.3	3732.7	3516.3	3420.6
45°	7749.8	7637.5	7193.6	5999.3	4975.6	4635.8	4370.8	3911.7	3628.7	3498.3
47.5°	8813.8	8841.5	8210.4	6756.7	5533.2	5104.6	4763.4	4180.8	3792.4	3623.2
50°	9944.3	9963.7	9221.6	7595.9	6165.7	5634.5	5204.5	4481.8	4019.9	3800.7
52.5°	10826.5	10829.2	10139.8	8473.9	6824.6	6217.1	5680.3	4825.8	4283.4	4036.5
55°	11378.5	11371.6	10783.5	9304.8	7582.0	6828.8	6207.4	5217.0	4605.2	4313.9
57.5°	11779.4	11758.6	11227.3	10019.2	8389.3	7551.5	6803.8	5660.8	4985.3	4644.1
60°	11932.0	11919.5	11528.4	10636.4	9238.2	8350.5	7491.8	6157.4	5416.7	5033.9
62.5°	11990.3	12013.8	11823.8	11234.3	10146.8	9235.4	8247.8	6751.1	5902.2	5475.0
65°	12195.6	12238.6	12199.7	12016.6	11173.3	10271.6	9250.7	7457.2	6432.1	5948.0
67.5°	12602.0	12645.0	12661.6	12952.9	12427.2	11563.0	10501.9	8336.6	7052.1	6439.0
70°	12592.3	12579.8	12873.9	13697.8	13997.4	13351.0	12188.6	9418.5	7791.5	6846.8
72.5°	11461.8	11361.9	12056.8	13689.5	15304.1	15218.1	14248.5	10814.0	8429.5	6896.8
75°	8598.8	8332.4	9560.0	12337.0	15521.9	16277.9	15557.9	11679.5	8278.3	6093.6
77.5°	3677.3	3409.5	4856.3	9132.8	13892.0	15216.7	14356.7	10189.8	6608.2	4029.6
80°	962.7	961.3	1467.6	4140.6	9447.7	11237.1	9858.3	6580.5	3775.7	1439.8
82.5°	398.1	388.4	539.6	1610.4	4616.3	6305.8	5146.2	2935.1	1363.5	389.8
85°	148.4	147.0	262.2	556.2	1628.5	2600.8	1882.3	750.4	339.8	190.0
87.5°	41.6	40.2	56.9	192.8	396.7	602.0	321.8	123.5	95.7	74.9
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°
2990.6	0°	2990.6	2990.6	2990.6	2990.6	2990.6	2990.6	2990.6	2990.6	2990.6	2990.6
2996.2	2.5°	3000.3	3007.3	3019.8	3029.5	3042.0	3055.8	3075.2	3087.7	3100.2	3108.5
3003.1	5°	3012.8	3028.1	3060.0	3091.9	3129.3	3164.0	3204.2	3233.4	3257.0	3263.9
3028.1	7.5°	3040.6	3065.5	3119.6	3173.7	3233.4	3290.2	3348.5	3398.4	3438.7	3453.9
3072.5	10°	3089.1	3122.4	3198.7	3275.0	3354.1	3441.4	3516.3	3588.5	3645.4	3668.9
3125.2	12.5°	3150.1	3191.8	3291.6	3397.1	3506.6	3627.3	3724.4	3813.2	3883.9	3915.8
3198.7	15°	3229.2	3283.3	3410.9	3552.4	3713.3	3881.2	4004.6	4103.1	4182.2	4221.0
3275.0	17.5°	3315.2	3387.3	3548.3	3761.9	3992.1	4212.7	4356.9	4429.1	4510.9	4548.4
3345.7	20°	3398.4	3487.2	3717.5	4028.2	4334.7	4569.2	4685.7	4705.1	4710.7	4714.8
3412.3	22.5°	3484.4	3603.7	3929.7	4363.9	4692.6	4854.9	4871.6	4788.3	4671.8	4617.7
3477.5	25°	3578.8	3736.9	4207.1	4734.2	5000.6	5020.0	4892.4	4689.9	4469.3	4368.0
3530.2	27.5°	3670.3	3890.9	4540.0	5088.0	5222.5	5051.9	4777.2	4490.1	4223.8	4117.0
3567.7	30°	3761.9	4067.0	4907.6	5397.3	5323.8	4972.8	4595.5	4275.1	4007.4	3895.0
3601.0	32.5°	3854.8	4272.3	5330.7	5620.6	5305.7	4805.0	4369.4	4033.7	3797.9	3680.0
3630.1	35°	3960.2	4524.8	5731.6	5742.7	5185.1	4558.1	4071.2	3745.2	3539.9	3445.6
3664.8	37.5°	4097.6	4845.2	6085.3	5773.2	4974.2	4196.0	3700.8	3404.0	3234.8	3191.8
3716.1	40°	4268.2	5230.8	6355.8	5724.6	4662.1	3756.3	3295.8	3058.6	2962.9	2972.6
3785.5	42.5°	4490.1	5662.2	6545.8	5599.8	4227.9	3302.7	2940.7	2835.3	2881.0	2919.9
3889.5	45°	4778.6	6110.3	6663.7	5387.6	3736.9	2918.5	2731.2	2756.2	2790.9	2795.0
4057.3	47.5°	5147.6	6563.9	6741.4	5067.1	3236.2	2648.0	2598.1	2603.6	2596.7	2567.6
4308.4	50°	5608.1	7005.0	6810.8	4642.7	2810.3	2478.8	2412.2	2392.8	2297.1	2202.7
4642.7	52.5°	6132.5	7410.0	6839.9	4115.6	2478.8	2337.3	2229.1	2107.0	1928.1	1899.0
5063.0	55°	6715.0	7784.5	6765.0	3467.8	2200.0	2155.6	1991.9	1844.9	1825.4	1800.5
5616.4	57.5°	7411.4	8188.2	6612.4	2745.1	1914.2	1943.4	1783.8	1800.5	1765.8	1727.0
6328.0	60°	8172.9	8605.7	6344.7	2086.2	1618.8	1678.4	1729.7	1728.4	1718.6	1686.7
7078.5	62.5°	8858.1	8880.3	5817.6	1598.0	1359.4	1473.1	1613.2	1611.8	1603.5	1585.5
7862.2	65°	9266.0	8838.7	4938.1	1258.1	1145.8	1303.9	1455.1	1466.2	1467.6	1466.2
8451.7	67.5°	9193.8	8351.8	3731.4	1001.5	969.6	1131.9	1298.3	1313.6	1324.7	1327.5
8526.6	70°	8378.2	7282.4	2433.0	799.0	812.9	980.7	1149.9	1165.2	1174.9	1186.0
7398.9	72.5°	6530.6	5354.3	1392.7	646.4	675.5	850.3	1002.9	1020.9	1026.5	1047.3
5149.0	75°	3979.6	3148.8	751.8	509.1	554.8	726.9	857.2	878.0	887.8	912.7
2528.7	77.5°	1892.0	1363.5	428.6	396.7	446.7	593.7	724.1	747.7	721.3	735.2
697.7	80°	639.5	506.3	270.5	302.4	341.2	463.3	579.8	603.4	547.9	545.1
231.6	82.5°	223.3	205.3	172.0	201.1	220.6	331.5	438.3	468.8	407.8	406.4
104.0	85°	87.4	83.2	95.7	109.6	131.8	203.9	288.5	303.8	251.1	202.5
30.5	87.5°	18.0	19.4	23.6	25.0	40.2	70.7	104.0	127.6	101.3	86.0
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>
2990.6
3103.0
3266.7
3455.3
3670.3
3915.8
4218.2
4547.0
4725.9
4633.0
4383.3
4129.5
3907.5
3695.3
3466.4
3222.3
3005.9
2956.0
2822.8
2589.8
2215.2
1908.7
1804.6
1720.0
1675.6
1578.5
1466.2
1330.2
1191.5
1055.6
915.5
724.1
539.6
387.0
199.7
79.1
0.0

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