

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: P953204

Luminaire Tested: **GALN-SB6D-827-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P953204  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB6D-827-U-T2U  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

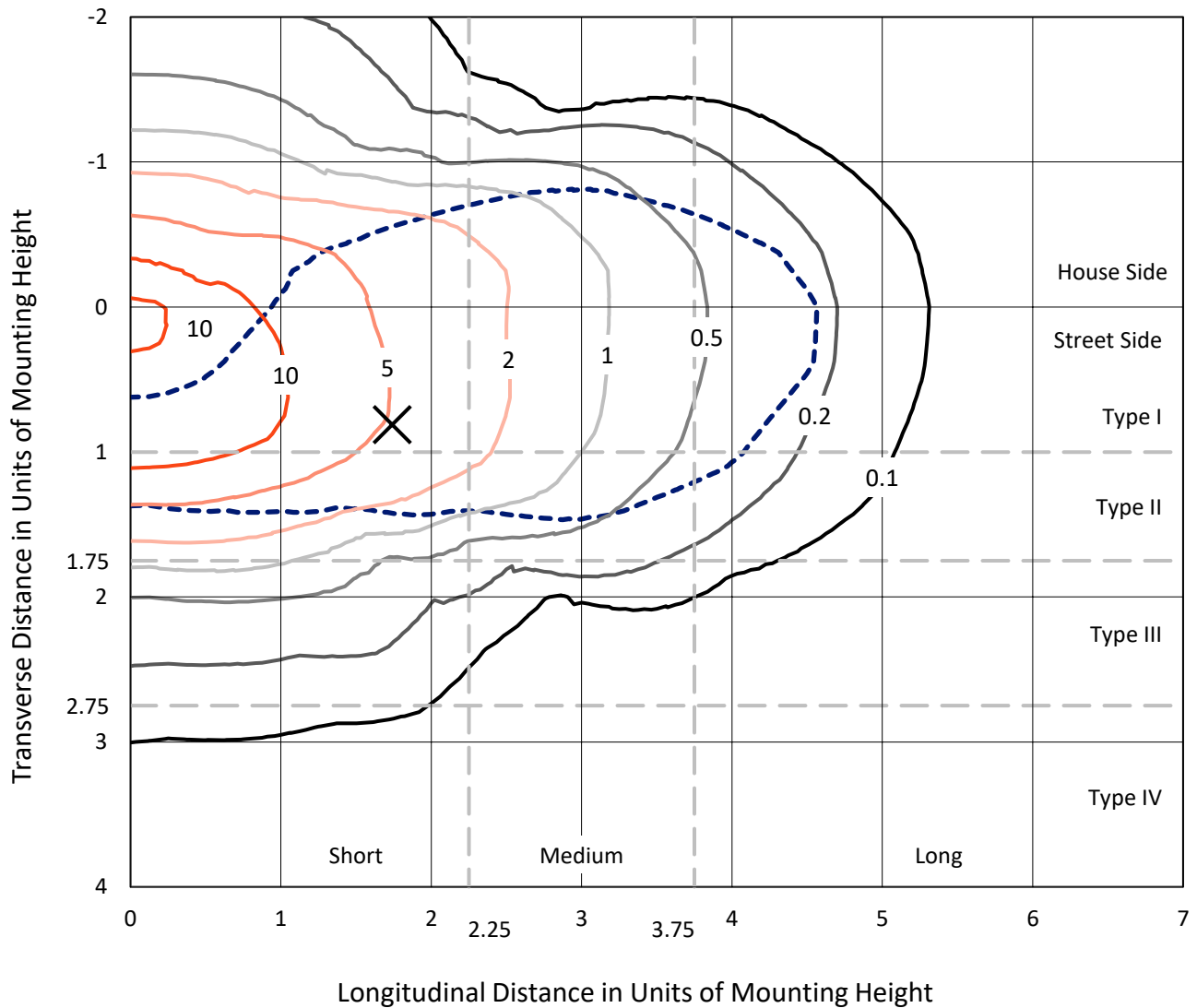
Lumens per Lamp: N/A  
Luminaire Lumens: 54378 lumens  
Efficiency: N/A  
Efficacy: 123.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 440.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

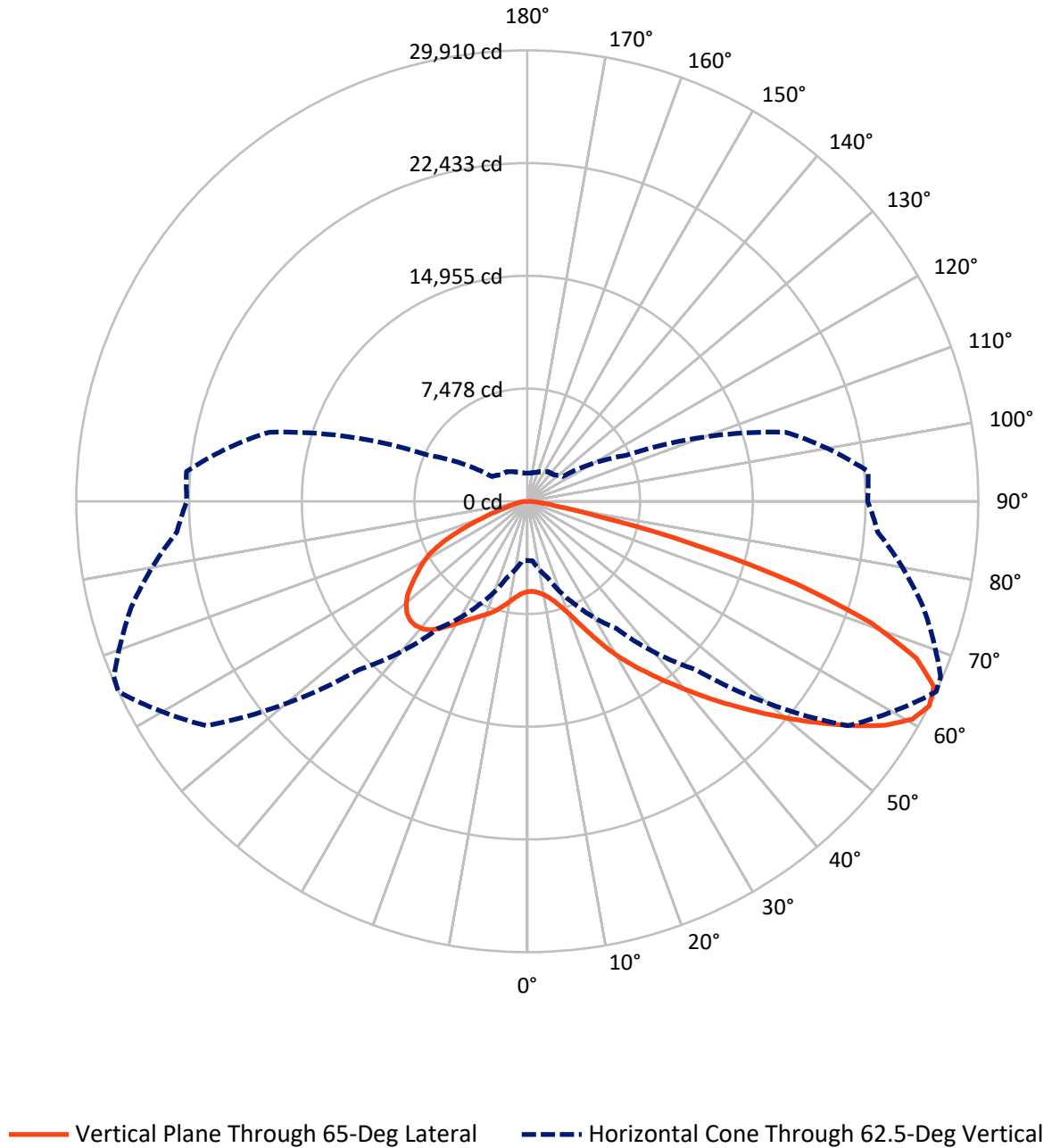
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	17159.3	0.0	17159.3
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	37218.7	0.0	37218.7
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	54378.0	0.0	54378.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	597.4	1.1
10°-20°	2025.9	3.7
20°-30°	4107.7	7.6
30°-40°	7108.3	13.1
40°-50°	10757.1	19.8
50°-60°	12612.0	23.2
60°-70°	10573.7	19.4
70°-80°	5837.5	10.7
80°-90°	758.3	1.4
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°	54378.0	100.0
0°-180°	54378.0	100.0



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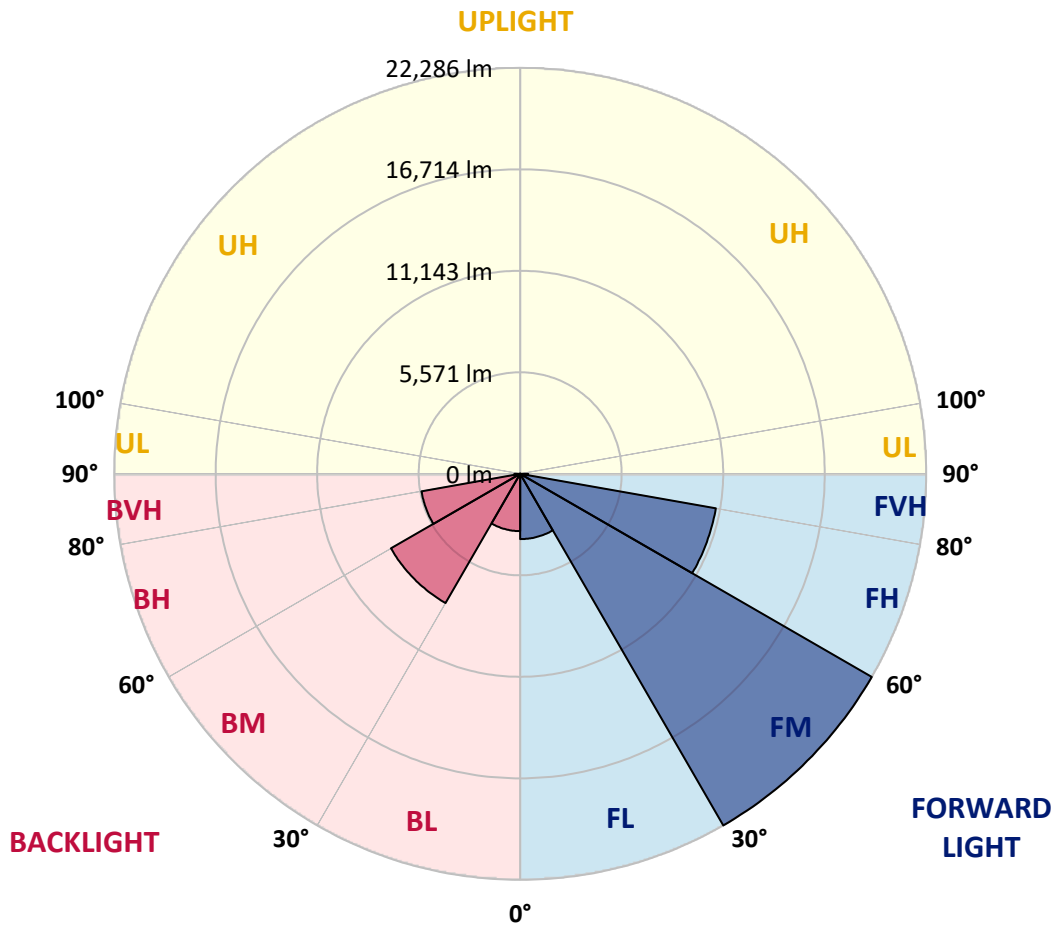
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3584.2	6.6			
FM (30°-60°)	22285.9	41.0			
FH (60°-80°)	10906.6	20.1			G4/12000
FVH (80°-90°)	441.9	0.8			G3/500
BL (0°-30°)	3146.8	5.8	B4/5000		
BM (30°-60°)	8191.6	15.1	B4/8500		
BH (60°-80°)	5504.6	10.1	B5		G5
BVH (80°-90°)	316.3	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	5992.2	5992.2	5992.2	5992.2	5992.2	5992.2	5992.2	5992.2	5992.2	5992.2
2.5°	5952.7	5935.8	5949.9	5949.9	5955.5	5952.7	5972.5	5978.1	5986.6	6003.5
5°	5893.5	5890.7	5916.0	5938.6	5961.2	5980.9	6006.3	6043.0	6048.6	6068.4
7.5°	5873.7	5856.8	5896.3	5924.5	5978.1	6026.1	6093.8	6155.8	6181.2	6189.7
10°	6026.1	5997.9	6034.5	6051.5	6096.6	6144.6	6223.6	6322.3	6350.5	6384.4
12.5°	6285.6	6254.6	6308.2	6333.6	6375.9	6418.2	6471.8	6567.7	6581.8	6643.9
15°	6641.1	6604.4	6638.3	6669.3	6739.8	6779.3	6832.9	6926.0	6926.0	6974.0
17.5°	7123.5	7075.6	7100.9	7112.2	7157.4	7216.6	7306.9	7388.7	7431.0	7414.1
20°	7842.9	7783.7	7783.7	7727.3	7710.3	7758.3	7876.8	7989.6	8034.8	7947.3
22.5°	8923.4	8838.8	8790.8	8599.0	8522.8	8528.5	8647.0	8785.2	8821.9	8666.7
25°	10297.4	10164.8	10099.9	9817.8	9645.7	9496.1	9589.2	9767.0	9817.8	9625.9
27.5°	11671.3	11679.8	11617.7	11279.1	10994.2	10720.5	10672.6	10858.8	10912.4	10695.2
30°	13598.2	13397.9	13279.4	12873.1	12466.9	12083.2	11885.7	11961.9	11976.0	11716.4
32.5°	15259.8	15209.1	14955.2	14599.7	14077.8	13476.9	13146.8	13025.5	13002.9	12633.3
35°	17152.9	17124.7	16856.6	16433.5	15869.2	15034.2	14438.9	14091.9	14063.7	13544.6
37.5°	19076.9	19076.9	18814.6	18351.9	17767.9	16724.0	15818.4	15268.3	15178.0	14500.9
40°	20611.7	20518.6	20566.5	20371.9	19703.2	18594.5	17350.4	16552.0	16430.6	15618.1
42.5°	21483.4	21452.4	21740.1	21957.4	21683.7	20797.9	19037.4	17942.8	17773.5	16848.2
45°	21678.1	21644.2	22157.7	22953.2	23336.9	22973.0	20871.2	19407.0	19201.1	18134.6
47.5°	21229.5	21161.8	21915.0	23170.5	24400.5	25040.9	22857.3	20995.3	20696.3	19387.3
50°	19881.0	19816.1	20955.8	22623.2	24758.8	26445.9	25012.7	22679.6	22222.6	20730.1
52.5°	16949.7	16980.8	18766.6	21057.4	24287.7	27320.5	26869.1	24454.1	23904.0	22104.1
55°	13203.2	13270.9	15465.8	17987.9	22403.1	27187.9	28135.8	26282.3	25734.9	23396.2
57.5°	9453.8	9752.9	11809.5	14306.3	18783.5	25086.1	28412.3	28020.1	27489.7	24806.8
60°	6127.6	6181.2	8297.1	10813.6	14303.5	21350.8	27850.8	29337.6	28922.9	26245.6
62.5°	3927.1	3963.8	5253.1	7563.6	10294.5	15795.9	25960.6	29910.3	29783.4	27196.3
65°	2886.1	2857.9	3529.3	4999.2	6934.5	9741.6	22290.3	29633.8	29884.9	27791.6
67.5°	2409.3	2369.8	2699.9	3461.6	5109.2	5532.4	16492.7	27836.7	28756.4	27723.9
70°	2194.9	2161.0	2361.3	2570.1	3986.3	3704.2	8314.1	24200.2	25616.5	26953.7
72.5°	1859.2	1799.9	2073.6	2282.3	3100.5	2840.9	3436.2	18588.9	20315.4	24485.2
75°	1441.6	1402.1	1636.3	2008.7	2330.3	2217.5	2172.3	11287.6	13172.2	18935.9
77.5°	1142.6	1089.0	1303.4	1565.8	2096.1	1673.0	1582.7	4860.9	6728.6	12088.8
80°	860.5	812.5	990.2	1238.5	1610.9	1261.1	1024.1	1983.3	2536.3	6124.8
82.5°	612.2	569.9	691.2	908.4	1083.3	1131.3	629.1	1111.6	1249.8	2361.3
85°	392.1	366.8	462.7	569.9	688.4	727.9	383.7	581.2	637.6	973.3
87.5°	214.4	174.9	248.3	265.2	318.8	290.6	183.4	211.6	228.5	352.6
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°
5992.2	0°	5992.2	5992.2	5992.2	5992.2	5992.2	5992.2	5992.2	5992.2	5992.2	5992.2
6003.5	2.5°	6014.8	6023.3	6051.5	6059.9	6079.7	6105.1	6122.0	6138.9	6138.9	6155.8
6093.8	5°	6096.6	6116.4	6175.6	6206.6	6257.4	6308.2	6339.2	6375.9	6398.5	6409.8
6237.7	7.5°	6254.6	6285.6	6370.3	6423.9	6511.3	6581.8	6629.8	6680.6	6691.9	6722.9
6438.0	10°	6469.0	6505.7	6601.6	6703.2	6807.5	6895.0	6940.1	6976.8	6990.9	6996.6
6694.7	12.5°	6714.4	6768.0	6892.2	7016.3	7126.3	7202.5	7213.8	7205.3	7165.8	7132.0
7010.7	15°	7016.3	7064.3	7202.5	7337.9	7445.1	7459.2	7388.7	7343.6	7295.6	7287.1
7363.3	17.5°	7377.4	7402.8	7529.8	7662.4	7670.8	7622.9	7518.5	7476.2	7431.0	7400.0
7823.2	20°	7797.8	7789.3	7879.6	7936.0	7876.8	7730.1	7572.1	7501.6	7456.4	7419.7
8387.4	22.5°	8300.0	8235.1	8223.8	8209.7	8051.7	7744.2	7529.8	7439.5	7369.0	7318.2
9174.5	25°	9030.6	8782.4	8610.3	8514.4	8158.9	7668.0	7394.4	7194.0	7061.5	6974.0
10136.6	27.5°	9944.7	9527.2	9092.7	8858.6	8158.9	7512.8	7067.1	6742.7	6525.4	6435.1
11067.6	30°	10816.5	10379.2	9738.8	9273.3	8139.1	7258.9	6539.5	6088.1	5834.2	5744.0
11863.1	32.5°	11561.3	11084.5	10424.3	9727.5	8091.2	6847.0	5885.0	5385.7	5140.2	5033.0
12650.2	35°	12252.5	11744.6	11112.7	10226.8	7964.2	6243.3	5165.6	4784.7	4511.1	4339.0
13451.5	37.5°	12960.6	12356.8	11764.4	10678.2	7735.7	5538.0	4612.7	4288.2	3966.6	3735.3
14303.5	40°	13730.8	13008.5	12461.2	10946.2	7360.5	4866.6	4183.8	3887.6	3546.2	3300.8
15285.2	42.5°	14630.7	13790.0	13237.1	11084.5	6847.0	4389.8	3904.5	3614.0	3292.3	3092.0
16337.5	45°	15570.2	14650.5	13945.2	11081.7	6274.3	4166.9	3814.3	3526.5	3171.0	2962.3
17418.1	47.5°	16554.8	15550.4	14557.4	10901.1	5777.8	4197.9	3763.5	3337.5	2945.3	2742.2
18509.9	50°	17542.2	16535.0	15149.8	10562.6	5566.2	4130.2	3574.5	3072.3	2609.6	2426.2
19534.0	52.5°	18521.2	17581.7	15660.5	10080.1	5351.8	3879.1	3331.8	2728.1	2471.4	2344.4
20591.9	55°	19505.7	18617.1	16216.2	9377.7	4815.8	3585.7	2925.6	2598.3	2361.3	2245.7
21627.3	57.5°	20493.2	19813.3	16743.8	8675.2	4141.5	3224.6	2702.7	2440.3	2251.3	2152.6
22493.4	60°	21520.1	21181.5	17288.3	8029.1	3475.7	2762.0	2539.1	2313.4	2121.5	2011.5
23325.6	62.5°	22578.0	22688.1	17714.3	7196.9	2863.5	2479.8	2392.4	2161.0	1974.8	1870.5
24014.0	65°	23644.4	24141.0	17993.6	6043.0	2321.8	2211.8	2234.4	1994.6	1805.6	1715.3
24519.0	67.5°	24448.5	25187.6	17914.6	4573.2	1904.3	1957.9	2036.9	1819.7	1641.9	1571.4
24437.2	70°	24538.8	25063.5	17135.9	3131.5	1594.0	1709.6	1816.9	1647.6	1464.2	1413.4
23286.1	72.5°	23336.9	23370.8	14966.4	2045.4	1348.5	1500.9	1585.5	1472.7	1294.9	1244.1
20371.9	75°	20185.7	19328.0	10988.6	1348.5	1128.5	1289.3	1368.3	1289.3	1117.2	1128.5
15242.9	77.5°	15293.7	13688.4	6672.1	959.2	942.3	1083.3	1190.5	1134.1	987.4	1108.7
7665.2	80°	7879.6	7405.6	2976.4	716.6	744.8	866.1	979.0	905.6	781.5	744.8
1712.5	82.5°	1805.6	2099.0	1173.6	513.5	538.8	623.5	747.6	679.9	561.4	474.0
713.8	85°	631.9	691.2	519.1	321.6	316.0	389.3	507.8	454.2	380.9	304.7
301.9	87.5°	200.3	262.4	194.7	129.8	135.4	174.9	234.2	214.4	177.7	115.7
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>
5992.2
6155.8
6415.4
6711.6
6982.5
7132.0
7287.1
7402.8
7422.6
7335.1
7007.9
6480.3
5797.6
5086.6
4395.4
3797.3
3348.8
3131.5
2996.1
2770.4
2437.5
2344.4
2234.4
2135.6
2003.0
1867.6
1712.5
1574.2
1416.2
1241.3
1089.0
976.1
679.9
468.3
321.6
121.3
0.0

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