

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: P944782

Luminaire Tested: **GALN-SB9D-927-U-SL4**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944782  
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-SB9D-927-U-SL4  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

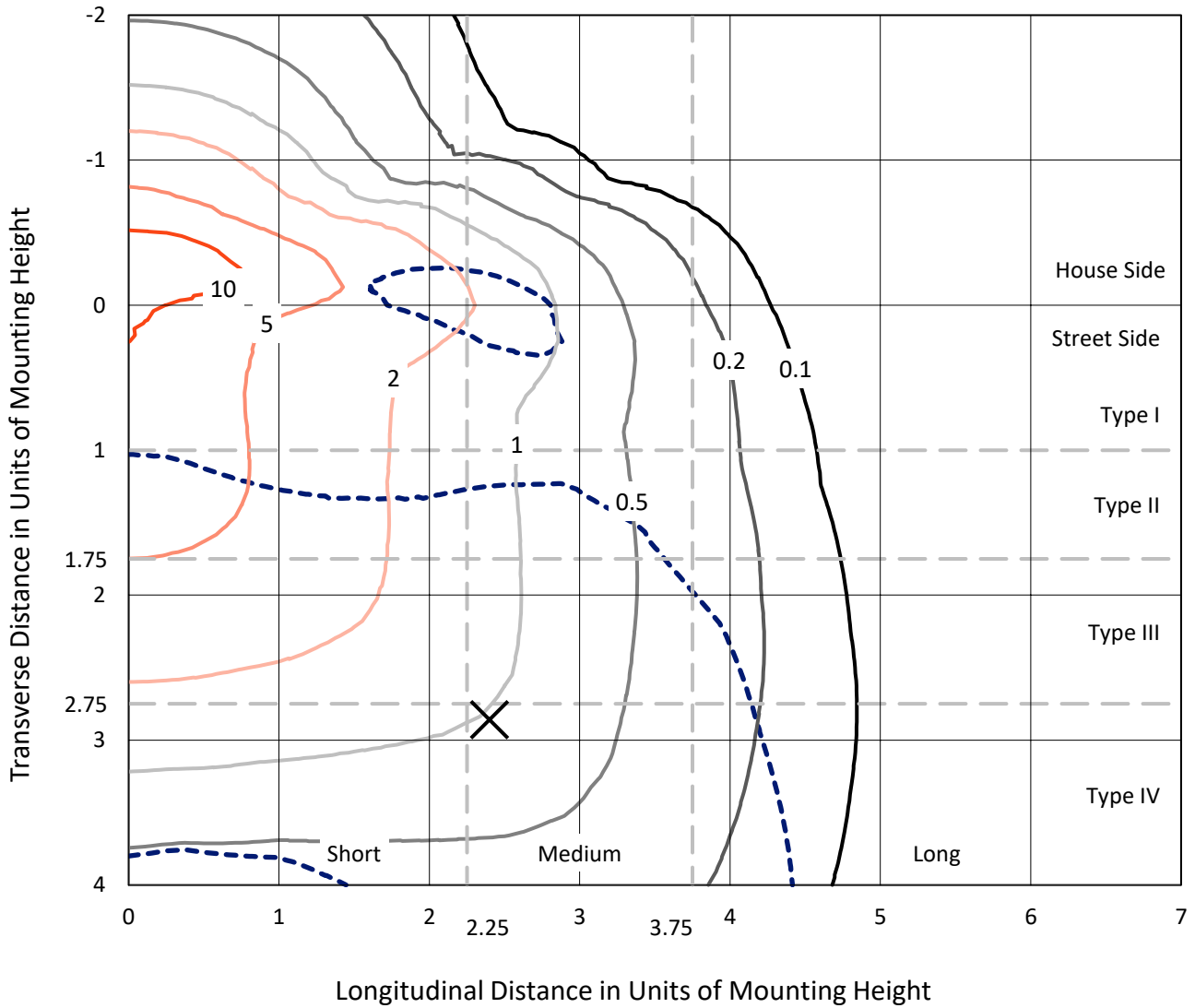
Lumens per Lamp: N/A  
Luminaire Lumens: 55925 lumens  
Efficiency: N/A  
Efficacy: 85.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 658  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

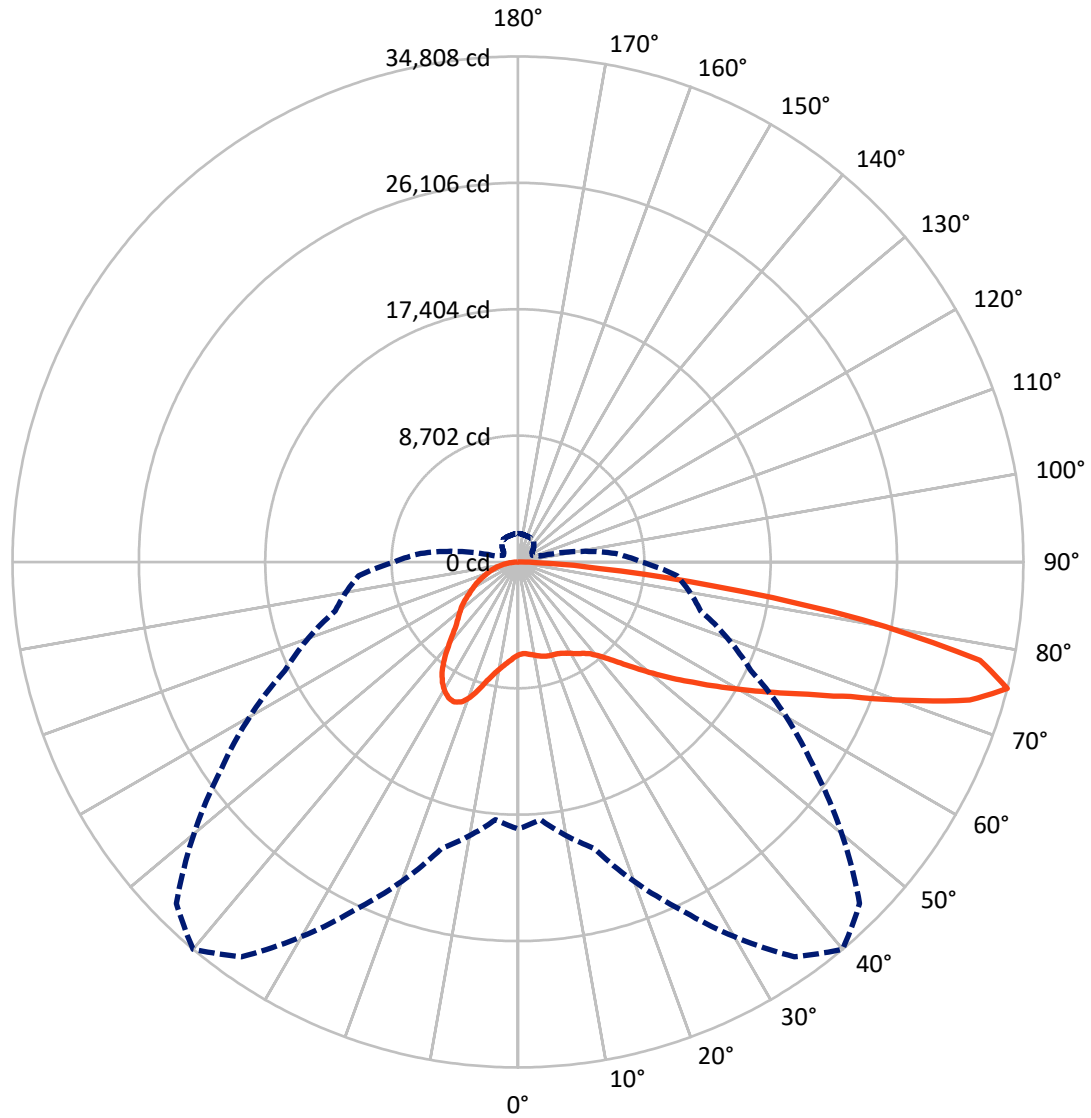
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.2 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	17327.4	0.0	17327.4
	% Fixture	31.0	0.0	31.0
<b>Street Side</b>	Lumens	38597.6	0.0	38597.6
	% Fixture	69.0	0.0	69.0
<b>Total</b>	Lumens	55925.0	0.0	55925.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	638.4	1.1
10°-20°	2143.2	3.8
20°-30°	3913.4	7.0
30°-40°	5550.3	9.9
40°-50°	7494.5	13.4
50°-60°	10082.1	18.0
60°-70°	12796.5	22.9
70°-80°	11613.7	20.8
80°-90°	1692.9	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°	55925.0	100.0
0°-180°	55925.0	100.0

**Coefficient of Utilization**



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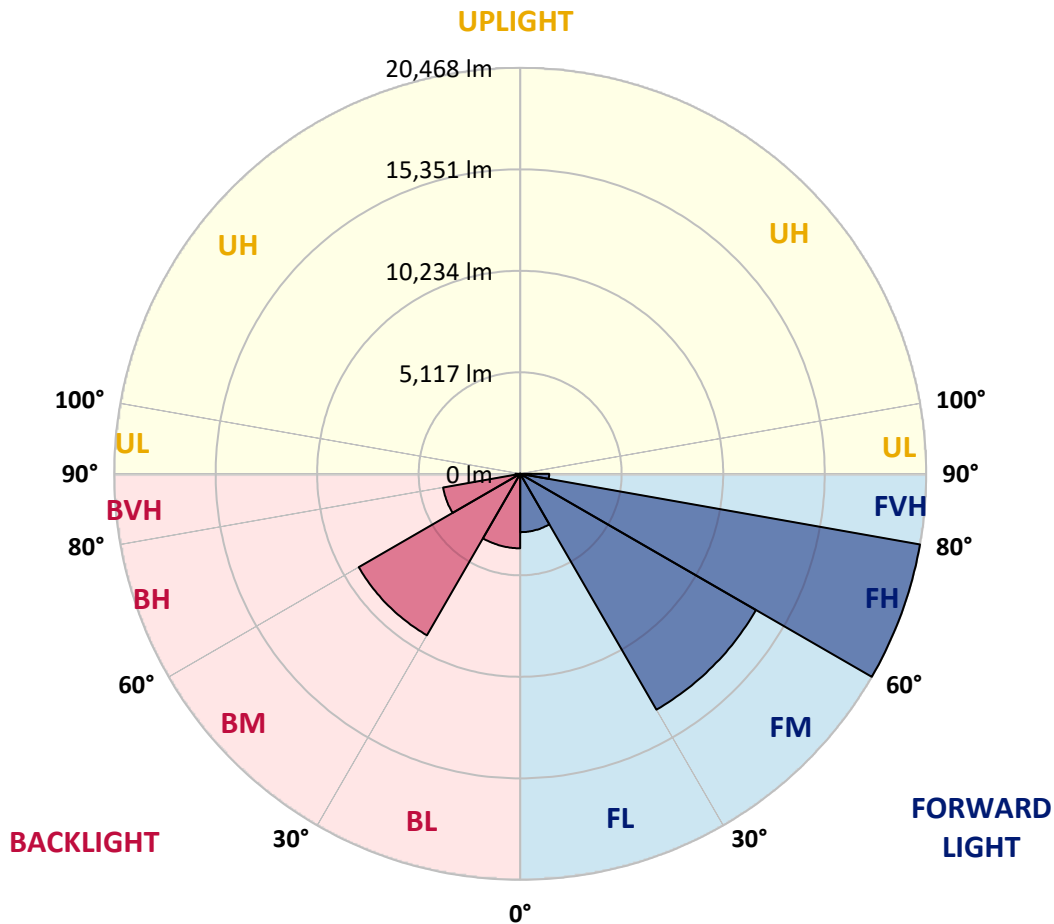
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2941.7	5.3			
FM (30°-60°)	13728.3	24.5			
FH (60°-80°)	20467.7	36.6			G5
FVH (80°-90°)	1459.8	2.6			G5
BL (0°-30°)	3753.3	6.7	B4/5000		
BM (30°-60°)	9398.6	16.8	B5		
BH (60°-80°)	3942.5	7.0	B4/5000		G4/5000
BVH (80°-90°)	233.1	0.4			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 IV Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	6395.1	6395.1	6395.1	6395.1	6395.1	6395.1	6395.1	6395.1	6395.1	6395.1
2.5°	6297.2	6332.8	6323.9	6312.0	6312.0	6315.0	6312.0	6332.8	6353.6	6374.3
5°	6362.5	6398.1	6380.3	6365.4	6353.6	6350.6	6341.7	6338.7	6350.6	6377.3
7.5°	6490.0	6525.6	6498.9	6472.2	6448.5	6436.6	6424.8	6407.0	6398.1	6412.9
10°	6632.4	6668.0	6635.4	6587.9	6549.3	6534.5	6522.6	6504.8	6493.0	6501.9
12.5°	6774.8	6810.4	6765.9	6700.6	6650.2	6641.3	6626.5	6620.5	6617.6	6614.6
15°	6908.2	6937.9	6881.6	6804.4	6751.0	6736.2	6721.4	6730.3	6745.1	6762.9
17.5°	7012.1	7041.7	6958.7	6857.8	6807.4	6801.5	6792.6	6822.2	6863.8	6908.2
20°	7107.0	7136.6	7029.9	6893.4	6834.1	6834.1	6837.1	6899.3	6958.7	7023.9
22.5°	7240.5	7264.2	7133.7	6946.8	6860.8	6866.7	6890.5	6952.7	7026.9	7115.9
25°	7439.2	7457.0	7296.8	7047.7	6949.8	6967.6	6988.3	7018.0	7089.2	7193.0
27.5°	7759.5	7774.4	7563.8	7225.6	7077.3	7107.0	7136.6	7115.9	7148.5	7237.5
30°	8210.4	8219.3	7952.3	7504.5	7293.9	7308.7	7314.6	7228.6	7166.3	7237.5
32.5°	8744.3	8741.4	8424.0	7842.6	7540.0	7525.2	7474.8	7305.7	7160.4	7222.7
35°	9571.9	9539.3	9129.9	8317.2	7818.9	7726.9	7608.3	7391.7	7190.0	7207.8
37.5°	10942.3	10841.4	10274.9	9094.3	8234.1	7999.8	7824.8	7531.1	7255.3	7201.9
40°	12487.6	12360.1	11737.2	10159.2	8857.0	8480.3	8198.5	7729.9	7362.1	7228.6
42.5°	14320.7	14139.8	13469.5	11413.9	9646.0	9100.3	8676.1	7982.0	7519.3	7314.6
45°	16572.1	16331.8	15382.6	12828.8	10639.7	9913.0	9346.5	8364.6	7759.5	7480.7
47.5°	18847.1	18906.5	17556.9	14448.3	11832.1	10915.6	10185.9	8940.1	8109.6	7747.7
50°	21264.6	21306.1	19719.2	16242.8	13184.7	12048.6	11129.1	9583.7	8596.0	8127.4
52.5°	23151.1	23157.0	21682.8	18120.4	14593.6	13294.4	12146.5	10319.4	9159.6	8631.6
55°	24331.6	24316.8	23059.1	19897.2	16213.2	14602.5	13273.7	11155.8	9847.7	9224.8
57.5°	25188.9	25144.4	24008.3	21424.8	17939.5	16147.9	14549.1	12105.0	10660.5	9930.8
60°	25515.1	25488.4	24652.0	22744.7	19754.8	17856.4	16020.4	13166.9	11583.0	10764.3
62.5°	25639.7	25690.1	25283.8	24023.1	21697.7	19748.9	17636.9	14436.4	12621.1	11707.5
65°	26078.7	26170.7	26087.6	25696.1	23892.6	21964.6	19781.5	15946.2	13754.2	12719.0
67.5°	26947.8	27039.8	27075.4	27698.3	26574.1	24726.1	22457.0	17826.8	15080.1	13769.0
70°	26927.0	26900.3	27529.2	29291.1	29931.8	28549.5	26063.9	20140.4	16661.1	14641.1
72.5°	24509.6	24296.0	25782.1	29273.3	32725.9	32542.0	30468.7	23124.4	18025.5	14747.9
75°	18387.4	17817.9	20443.0	26381.3	33191.6	34808.2	33268.7	24975.3	17702.2	13030.5
77.5°	7863.4	7290.9	10384.6	19529.4	29706.4	32539.1	30700.0	21789.6	14130.9	8616.8
80°	2058.5	2055.6	3138.2	8854.1	20202.7	24029.1	21080.7	14071.6	8074.0	3078.9
82.5°	851.3	830.5	1153.8	3443.7	9871.5	13484.3	11004.6	6276.5	2915.8	833.5
85°	317.4	314.4	560.6	1189.4	3482.3	5561.6	4025.1	1604.7	726.7	406.4
87.5°	89.0	86.0	121.6	412.3	848.3	1287.3	688.2	264.0	204.7	160.2
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°
6395.1	0°	6395.1	6395.1	6395.1	6395.1	6395.1	6395.1	6395.1	6395.1	6395.1	6395.1
6407.0	2.5°	6415.9	6430.7	6457.4	6478.2	6504.8	6534.5	6576.0	6602.7	6629.4	6647.2
6421.8	5°	6442.6	6475.2	6543.4	6611.6	6691.7	6765.9	6851.9	6914.2	6964.6	6979.4
6475.2	7.5°	6501.9	6555.3	6671.0	6786.6	6914.2	7035.8	7160.4	7267.2	7353.2	7385.8
6570.1	10°	6605.7	6676.9	6840.0	7003.2	7172.2	7359.1	7519.3	7673.5	7795.1	7845.6
6682.8	12.5°	6736.2	6825.2	7038.8	7264.2	7498.5	7756.6	7964.2	8154.0	8305.3	8373.5
6840.0	15°	6905.3	7021.0	7293.9	7596.4	7940.5	8299.4	8563.4	8774.0	8943.1	9026.1
7003.2	17.5°	7089.2	7243.4	7587.5	8044.3	8536.7	9008.3	9316.8	9471.0	9646.0	9726.1
7154.4	20°	7267.2	7457.0	7949.4	8613.8	9269.3	9770.6	10019.8	10061.3	10073.2	10082.1
7296.8	22.5°	7451.1	7706.2	8403.2	9331.6	10034.6	10381.7	10417.2	10239.3	9990.1	9874.4
7436.2	25°	7652.8	7990.9	8996.4	10123.6	10693.1	10734.6	10461.7	10028.7	9557.1	9340.5
7548.9	27.5°	7848.5	8320.2	9708.3	10880.0	11167.7	10802.9	10215.5	9601.5	9032.0	8803.6
7629.0	30°	8044.3	8696.9	10494.4	11541.4	11384.2	10633.8	9827.0	9141.8	8569.3	8329.1
7700.2	32.5°	8243.0	9135.9	11399.1	12019.0	11345.7	10274.9	9343.5	8625.7	8121.4	7869.3
7762.5	35°	8468.5	9675.7	12256.3	12280.0	11087.6	9746.9	8705.8	8008.7	7569.7	7368.0
7836.7	37.5°	8762.1	10360.9	13012.7	12345.3	10636.7	8972.7	7913.8	7279.0	6917.1	6825.2
7946.4	40°	9127.0	11185.5	13591.1	12241.5	9969.4	8032.4	7047.7	6540.4	6335.8	6356.5
8094.7	42.5°	9601.5	12108.0	13997.4	11974.5	9040.9	7062.5	6288.3	6062.9	6160.8	6243.8
8317.2	45°	10218.5	13066.1	14249.6	11520.7	7990.9	6240.9	5840.4	5893.8	5968.0	5976.9
8676.1	47.5°	11007.5	14036.0	14415.7	10835.5	6920.1	5662.5	5555.7	5567.5	5552.7	5490.4
9213.0	50°	11992.3	14979.2	14564.0	9927.8	6009.5	5300.6	5158.2	5116.7	4912.0	4710.3
9927.8	52.5°	13113.5	15845.4	14626.3	8800.7	5300.6	4998.0	4766.7	4505.6	4123.0	4060.7
10826.6	55°	14359.3	16646.2	14466.1	7415.5	4704.4	4609.5	4259.4	3945.0	3903.5	3850.1
12010.1	57.5°	15848.3	17509.4	14139.8	5870.1	4093.3	4155.6	3814.5	3850.1	3776.0	3692.9
13531.7	60°	17476.8	18402.2	13567.3	4461.1	3461.5	3589.1	3698.8	3695.9	3675.1	3606.9
15136.5	62.5°	18942.1	18989.5	12440.2	3417.0	2906.9	3150.1	3449.7	3446.7	3428.9	3390.4
16812.3	65°	19814.1	18900.5	10559.6	2690.3	2450.1	2788.2	3111.5	3135.3	3138.2	3135.3
18073.0	67.5°	19659.9	17859.4	7979.0	2141.6	2073.4	2420.4	2776.4	2809.0	2832.7	2838.6
18233.1	70°	17915.8	15572.5	5202.7	1708.5	1738.2	2097.1	2459.0	2491.6	2512.4	2536.1
15821.6	72.5°	13964.8	11449.5	2978.1	1382.2	1444.5	1818.3	2144.6	2183.1	2195.0	2239.5
11010.5	75°	8510.0	6733.2	1607.7	1088.6	1186.5	1554.3	1833.1	1877.6	1898.4	1951.8
5407.4	77.5°	4045.9	2915.8	916.6	848.3	955.1	1269.5	1548.3	1598.8	1542.4	1572.1
1492.0	80°	1367.4	1082.7	578.4	646.6	729.7	990.7	1239.9	1290.3	1171.6	1165.7
495.4	82.5°	477.6	439.0	367.8	430.1	471.6	708.9	937.3	1002.6	872.1	869.1
222.5	85°	186.9	178.0	204.7	234.3	281.8	436.0	617.0	649.6	536.9	433.1
65.3	87.5°	38.6	41.5	50.4	53.4	86.0	151.3	222.5	272.9	216.5	183.9
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>
6395.1
6635.4
6985.4
7388.8
7848.5
8373.5
9020.2
9723.2
10105.8
9907.1
9373.1
8830.3
8355.7
7901.9
7412.5
6890.5
6427.7
6320.9
6036.2
5537.9
4737.0
4081.5
3859.0
3678.1
3583.2
3375.5
3135.3
2844.6
2548.0
2257.3
1957.7
1548.3
1153.8
827.6
427.1
169.1
0.0

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