

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: P943848

Luminaire Tested: **GALN-SB8C-735-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943848  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB8C-735-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

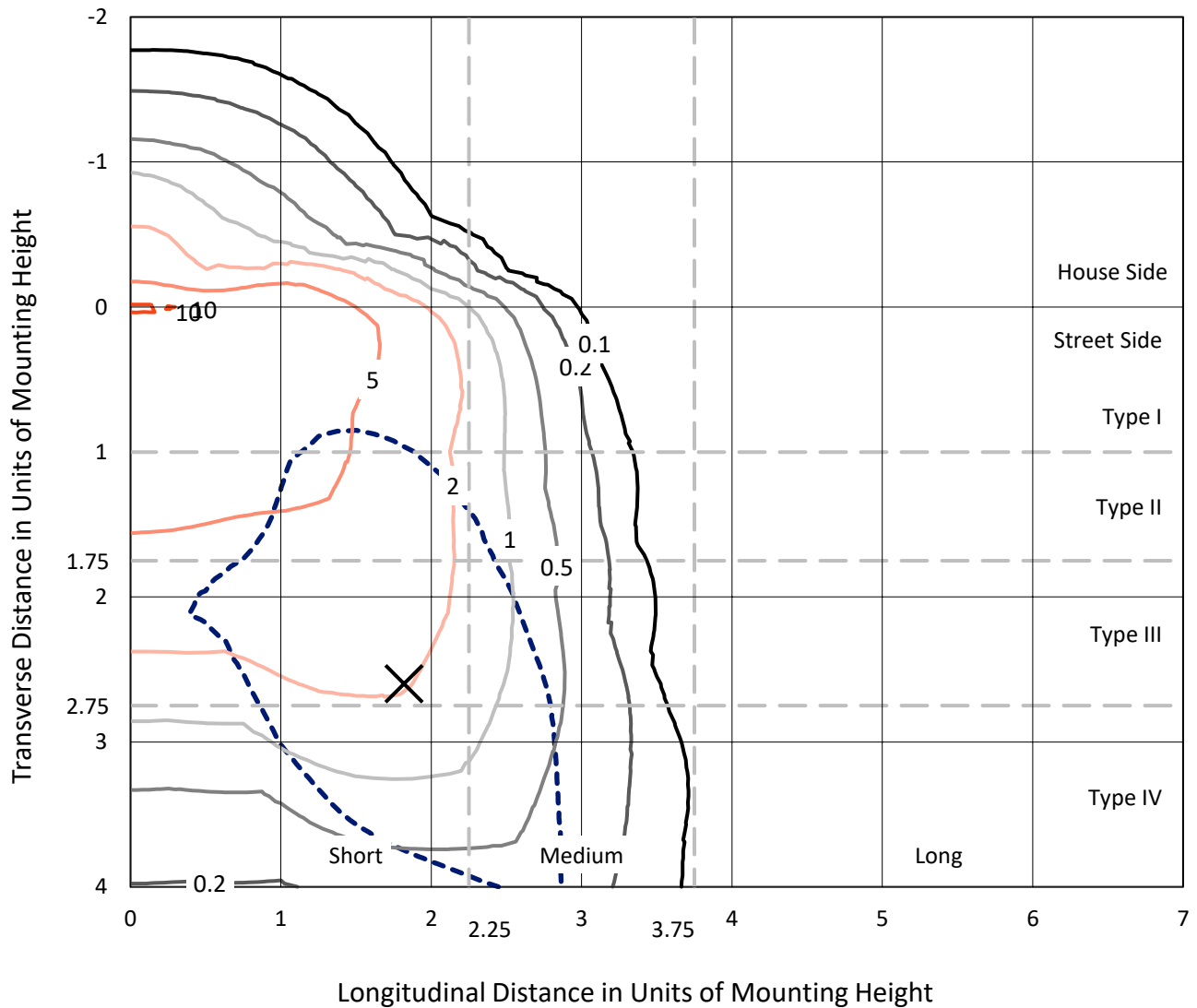
Lumens per Lamp: N/A  
Luminaire Lumens: 45851 lumens  
Efficiency: N/A  
Efficacy: 114.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 399.8  
Input Voltage (V): NR  
Input Current (Ain): 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

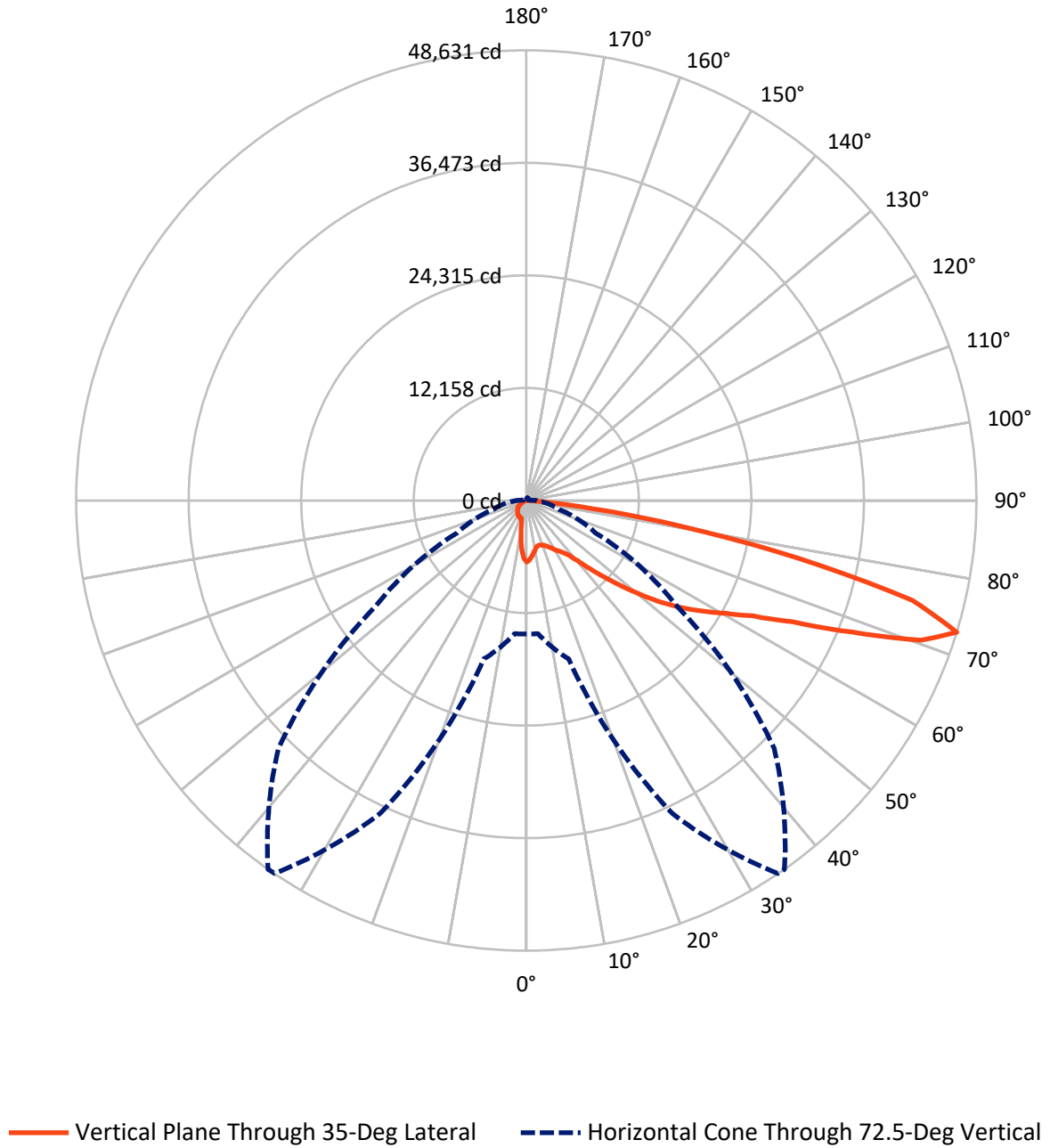
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc  
 Type IV - 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	5160.3	0.0	5160.3
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	40690.7	0.0	40690.7
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	45851.0	0.0	45851.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	546.1	1.2
10°-20°	1277.5	2.8
20°-30°	2075.2	4.5
30°-40°	3462.5	7.6
40°-50°	6551.1	14.3
50°-60°	10409.6	22.7
60°-70°	12877.4	28.1
70°-80°	8004.7	17.5
80°-90°	646.9	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°	45851.0	100.0
0°-180°	45851.0	100.0

**Coefficient of Utilization**



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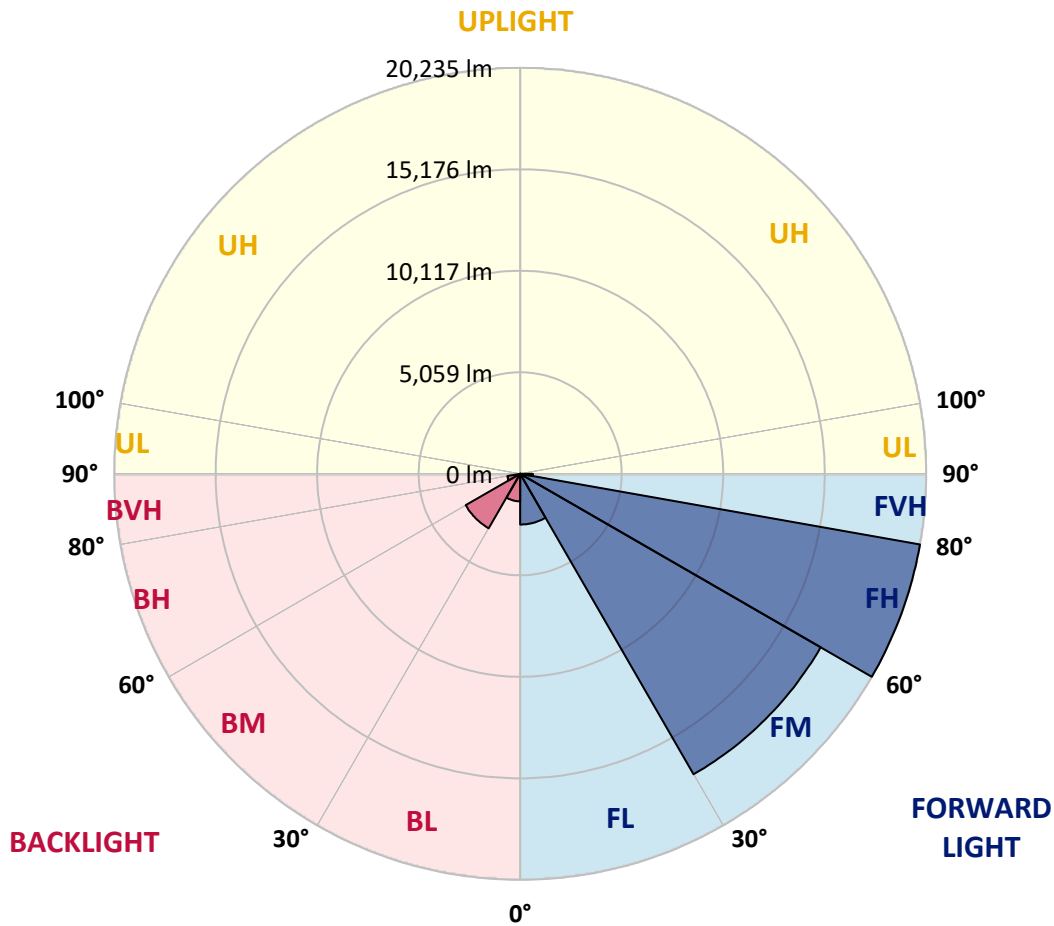
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2527.6	5.5			
FM (30°-60°)	17290.4	37.7			
FH (60°-80°)	20234.6	44.1			G5
FVH (80°-90°)	638.1	1.4			G4/750
BL (0°-30°)	1371.2	3.0	B3/2500		
BM (30°-60°)	3132.8	6.8	B3/5000		
BH (60°-80°)	647.5	1.4	B2/1000		G2/1000
BVH (80°-90°)	8.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	6645.3	6645.3	6645.3	6645.3	6645.3	6645.3	6645.3	6645.3	6645.3	6645.3
2.5°	6349.7	6403.5	6413.5	6430.3	6430.3	6450.5	6484.1	6531.1	6608.4	6648.7
5°	5852.5	5892.8	5943.2	5983.5	6060.8	6070.9	6201.9	6329.5	6507.6	6642.0
7.5°	5351.9	5398.9	5466.1	5563.5	5664.3	5694.6	5892.8	6107.8	6390.0	6642.0
10°	4999.1	5002.5	5063.0	5160.4	5321.7	5358.6	5600.5	5906.2	6259.0	6601.7
12.5°	4800.9	4824.4	4851.3	4925.2	5079.8	5103.3	5362.0	5721.4	6128.0	6578.2
15°	4800.9	4817.7	4834.5	4871.5	4995.8	5015.9	5244.4	5603.9	6060.8	6588.2
17.5°	4851.3	4878.2	4864.7	4908.4	5039.4	5052.9	5254.5	5570.3	6057.4	6652.1
20°	4972.3	4992.4	4965.5	4992.4	5123.4	5150.3	5358.6	5634.1	6114.5	6762.9
22.5°	5163.8	5173.8	5110.0	5130.2	5264.5	5298.1	5540.0	5815.5	6252.3	6941.0
25°	5405.6	5425.8	5328.4	5351.9	5479.6	5519.9	5798.7	6087.6	6470.6	7186.2
27.5°	5684.5	5694.6	5610.6	5607.2	5771.8	5829.0	6111.2	6423.6	6762.9	7495.3
30°	6003.7	6033.9	5953.3	5939.8	6148.1	6195.2	6474.0	6836.8	7193.0	7959.0
32.5°	6255.6	6279.1	6232.1	6265.7	6477.4	6514.3	6914.1	7421.4	7868.3	8617.4
35°	6618.5	6631.9	6524.4	6584.9	6826.8	6920.8	7515.5	8241.2	8718.2	9443.9
37.5°	7932.1	7932.1	7475.2	7176.2	7408.0	7492.0	8338.6	9272.6	9766.4	10552.6
40°	9749.6	9719.4	9050.8	8439.4	8409.2	8573.8	9511.1	10572.8	11120.4	11883.0
42.5°	11688.2	11641.1	10730.7	10125.9	10025.1	10082.2	10865.0	12175.3	12733.0	13505.7
45°	13408.3	13394.8	12561.7	11748.6	11567.2	11748.6	12554.9	14050.0	14449.8	15262.8
47.5°	14849.6	14849.6	14241.5	13710.6	13616.6	13724.1	14842.8	16129.6	16092.6	17134.1
50°	16509.2	16495.8	15917.9	15689.5	15786.9	15938.1	17476.8	18320.1	17792.6	18971.8
52.5°	17671.7	17752.3	17554.1	17517.1	18014.3	18276.4	20151.1	20463.5	19314.5	20715.5
55°	18592.2	18686.3	18914.7	19173.4	20130.9	20473.6	22741.3	22496.1	20587.8	22227.3
57.5°	19895.7	19761.3	20114.1	20624.8	22173.6	22586.8	25251.0	24414.4	21612.5	23453.6
60°	21478.1	21498.3	21558.7	22203.8	24212.8	24743.7	27723.7	26228.6	22271.0	24206.1
62.5°	23379.7	23409.9	23534.2	24525.3	26950.9	27451.5	30357.6	27713.6	22573.4	23994.5
65°	23248.6	23376.3	24763.8	28153.7	31113.5	31607.4	33431.7	28755.1	22116.4	22059.3
67.5°	21179.1	21387.4	23708.9	32487.6	37389.3	37940.3	37147.4	28960.0	20144.3	17154.3
70°	18464.5	18538.4	21330.3	36384.8	44656.2	45213.9	40473.5	26705.7	15286.3	9568.2
72.5°	14419.5	14436.3	17712.0	37288.5	48600.4	48630.6	37863.0	19825.2	8221.0	3675.4
75°	10300.6	10199.8	11862.9	30240.0	42758.0	43100.7	28385.5	9299.5	3141.3	1736.9
77.5°	5523.2	5634.1	6712.5	17933.7	29537.9	30122.4	15487.9	2681.0	1599.2	1182.6
80°	1706.7	1800.8	2751.5	8210.9	16731.0	17083.7	5741.6	1192.7	1115.4	843.3
82.5°	537.5	557.7	1283.4	3450.3	6944.4	7105.6	1663.0	675.3	762.6	557.7
85°	154.5	157.9	571.1	1286.7	1716.8	1750.4	467.0	262.1	436.8	346.0
87.5°	16.8	53.8	215.0	215.0	151.2	147.8	50.4	57.1	124.3	43.7
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°
6645.3	0°	6645.3	6645.3	6645.3	6645.3	6645.3	6645.3	6645.3	6645.3	6645.3	6645.3
6675.6	2.5°	6658.8	6662.1	6618.5	6544.6	6463.9	6396.7	6312.7	6245.6	6198.5	6185.1
6736.1	5°	6705.8	6682.3	6558.0	6332.9	6064.1	5832.3	5573.6	5368.7	5234.3	5177.2
6799.9	7.5°	6776.4	6709.2	6437.1	5993.6	5479.6	5022.6	4559.0	4199.5	3971.1	3856.9
6860.4	10°	6836.8	6702.5	6235.5	5503.1	4716.9	4024.8	3399.9	2966.6	2724.7	2610.4
6930.9	12.5°	6894.0	6699.1	5973.4	4921.9	3856.9	3010.2	2429.0	2214.0	2146.8	2123.3
7045.1	15°	7001.5	6709.2	5644.2	4256.7	3000.1	2274.5	2062.8	2059.5	2072.9	2066.2
7219.8	17.5°	7149.3	6719.3	5271.3	3551.1	2314.8	2005.7	1995.6	2025.9	2046.0	2035.9
7438.2	20°	7340.8	6759.6	4874.8	2852.3	1988.9	1938.5	1962.0	1988.9	2005.7	1988.9
7730.5	22.5°	7609.6	6830.1	4441.4	2291.3	1884.8	1898.2	1918.3	1948.6	1965.4	1941.9
8103.4	25°	7938.8	6941.0	4014.8	1992.3	1834.4	1851.2	1881.4	1915.0	1935.1	1911.6
8573.8	27.5°	8365.5	7119.1	3621.7	1925.1	1784.0	1794.0	1837.7	1888.1	1915.0	1884.8
9242.3	30°	8983.6	7411.3	3282.4	1955.3	1753.7	1730.2	1790.7	1861.2	1891.5	1864.6
10152.8	32.5°	9803.4	7824.6	3074.1	2002.3	1740.3	1656.3	1713.4	1804.1	1854.5	1837.7
11342.1	35°	10878.5	8452.8	2993.4	2056.1	1730.2	1579.0	1619.3	1716.8	1804.1	1820.9
12840.5	37.5°	12182.0	9326.3	3016.9	2079.6	1700.0	1515.2	1535.4	1619.3	1733.6	1787.3
14527.0	40°	13663.6	10344.3	3151.3	2056.1	1666.4	1461.4	1464.8	1528.6	1629.4	1710.1
16341.2	42.5°	15192.2	11533.6	3399.9	1968.7	1636.1	1414.4	1404.3	1448.0	1515.2	1572.3
18152.1	45°	16647.0	12756.5	3645.2	1847.8	1599.2	1367.4	1343.9	1360.6	1374.1	1397.6
19915.9	47.5°	17916.9	13616.6	3574.6	1736.9	1548.8	1313.6	1273.3	1266.6	1226.3	1222.9
21491.6	50°	18793.8	13804.7	3174.8	1626.1	1474.9	1253.1	1189.3	1149.0	1078.4	1044.8
22670.8	52.5°	19072.6	13062.2	2593.6	1515.2	1353.9	1172.5	1081.8	1018.0	930.6	900.4
23349.4	55°	18703.1	11607.5	2072.9	1380.8	1185.9	1065.0	964.2	880.2	809.7	772.7
23423.3	57.5°	17799.3	9756.4	1639.5	1222.9	1007.9	944.1	843.3	759.3	698.8	661.8
22603.6	60°	16300.9	7747.3	1296.8	1034.8	860.1	813.0	708.9	655.1	601.4	557.7
20487.0	62.5°	14026.5	5530.0	1018.0	819.7	719.0	665.2	604.7	564.4	500.6	440.1
16680.6	65°	10945.7	3383.1	786.2	601.4	577.9	551.0	514.0	477.1	399.8	339.3
10881.8	67.5°	6904.0	1602.5	561.1	453.5	456.9	443.5	426.7	396.4	339.3	285.6
4874.8	70°	3040.5	776.1	369.6	346.0	339.3	339.3	352.8	342.7	288.9	238.5
1693.3	72.5°	1034.8	416.6	275.5	262.1	245.3	241.9	295.6	285.6	231.8	184.8
843.3	75°	540.9	278.8	201.6	188.1	147.8	178.1	235.2	221.7	164.6	120.9
557.7	77.5°	352.8	198.2	137.7	120.9	84.0	117.6	174.7	154.5	97.4	60.5
366.2	80°	221.7	131.0	80.6	57.1	40.3	63.8	94.1	67.2	37.0	13.4
215.0	82.5°	117.6	67.2	30.2	20.2	16.8	20.2	23.5	16.8	6.7	0.0
110.9	85°	47.0	23.5	10.1	6.7	3.4	0.0	6.7	3.4	0.0	0.0
20.2	87.5°	16.8	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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>
6645.3
6208.6
5197.3
3873.7
2613.8
2116.6
2062.8
2032.6
1985.5
1938.5
1908.3
1884.8
1861.2
1837.7
1820.9
1800.8
1736.9
1595.8
1411.0
1219.5
1048.2
897.0
772.7
655.1
547.6
430.0
329.2
278.8
228.5
174.7
110.9
53.8
10.1
0.0
0.0
0.0
0.0

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