

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: P955622

Luminaire Tested: **GALN-SB8C-735-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955622  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)  
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-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

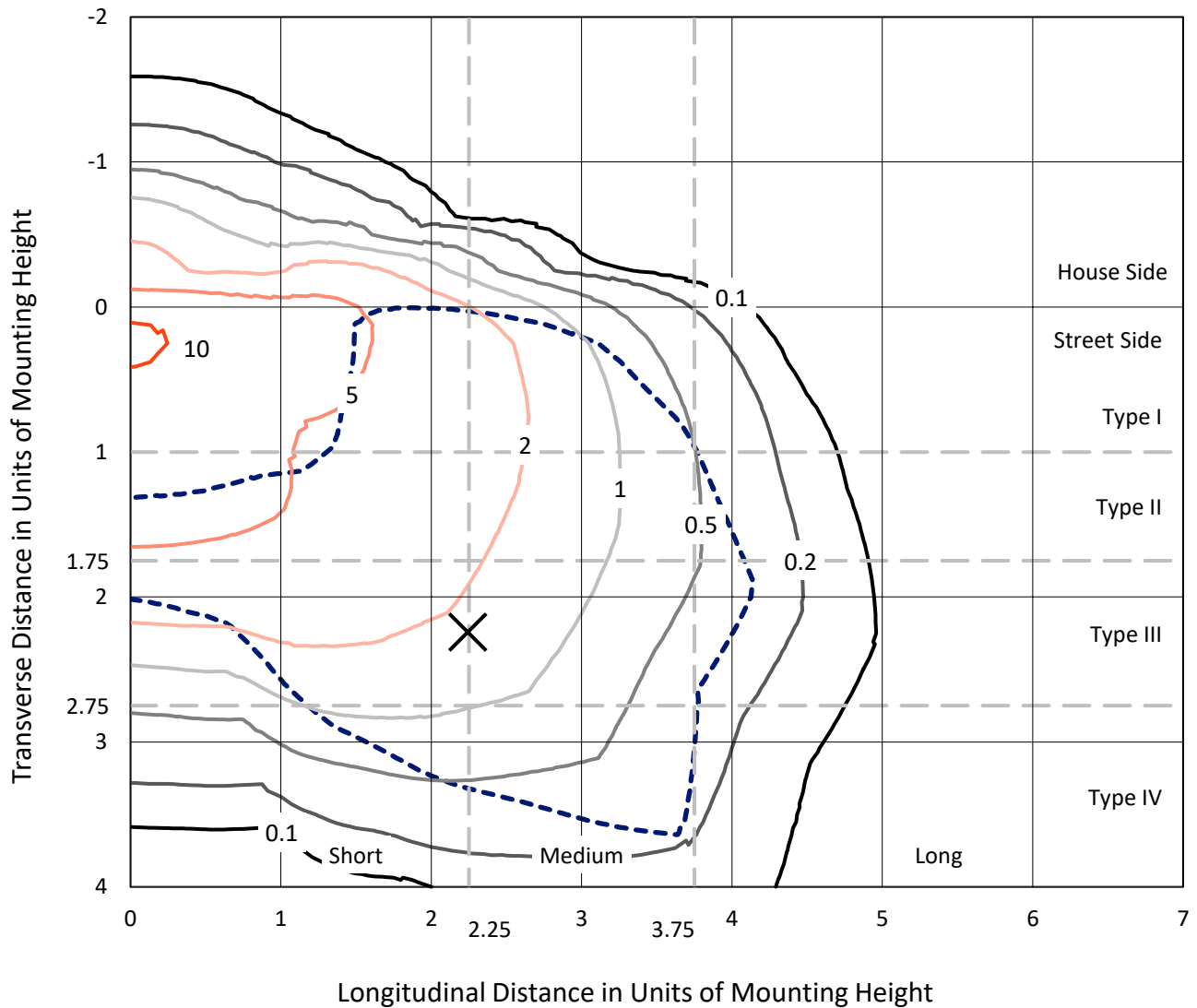
Lumens per Lamp: N/A  
Luminaire Lumens: 46647 lumens  
Efficiency: N/A  
Efficacy: 116.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 399.8  
Input Voltage (V): NR  
Input Current (Ain): 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

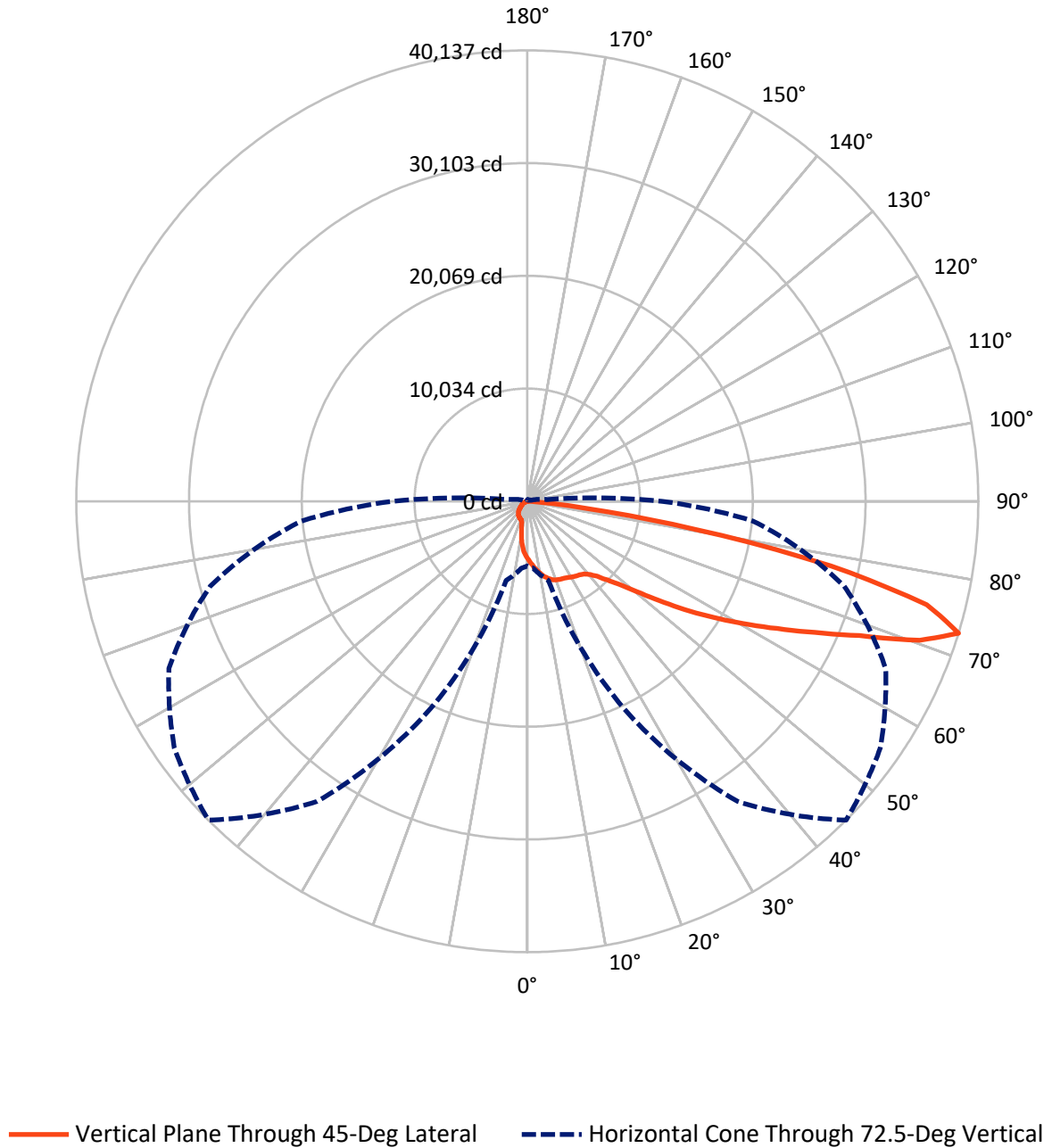
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 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	4901.3	0.0	4901.3
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	41745.7	0.0	41745.7
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	46647.0	0.0	46647.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	481.5	1.0
10°-20°	1407.2	3.0
20°-30°	2310.8	5.0
30°-40°	3277.3	7.0
40°-50°	5417.0	11.6
50°-60°	9731.1	20.9
60°-70°	13512.2	29.0
70°-80°	9801.3	21.0
80°-90°	708.6	1.5
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°	46647.0	100.0
0°-180°	46647.0	100.0

**Coefficient of Utilization**



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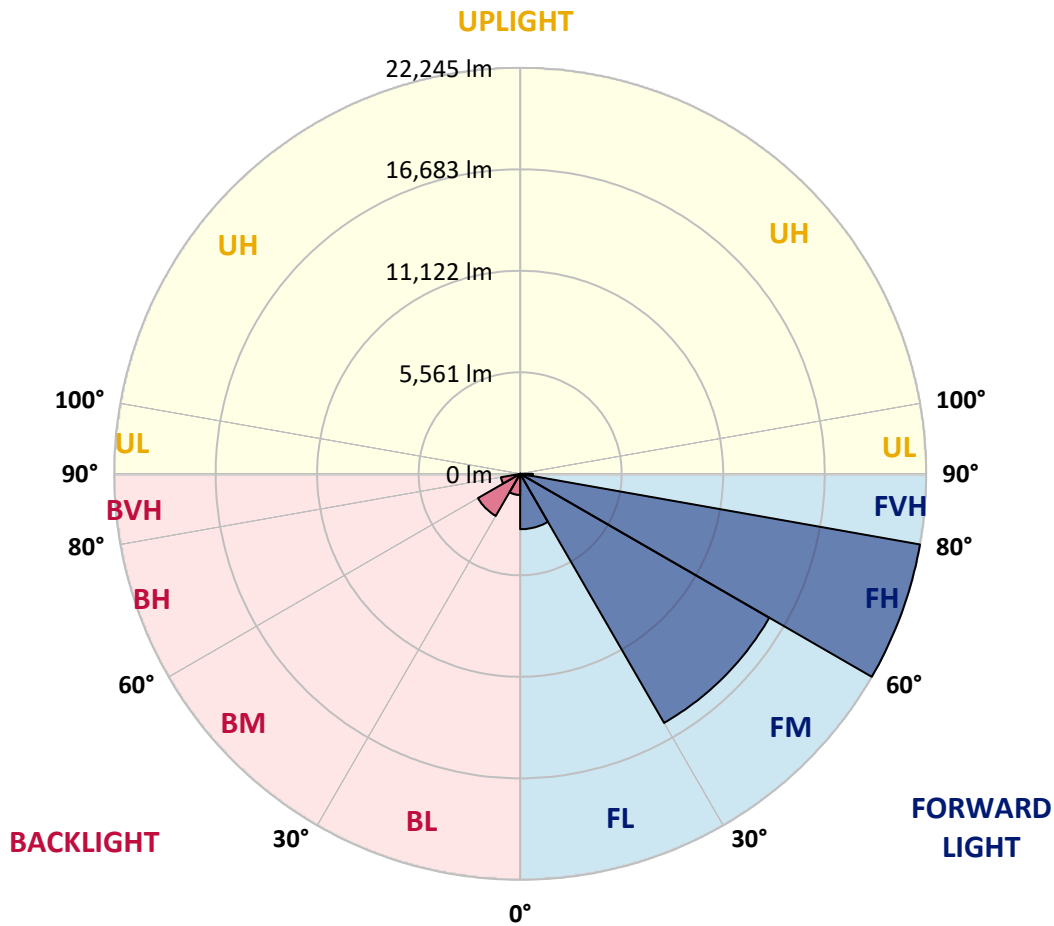
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3038.6	6.5			
FM (30°-60°)	15759.8	33.8			
FH (60°-80°)	22244.6	47.7			G5
FVH (80°-90°)	702.6	1.5			G4/750
BL (0°-30°)	1160.9	2.5	B3/2500		
BM (30°-60°)	2665.6	5.7	B3/5000		
BH (60°-80°)	1068.8	2.3	B3/2500		G3/2500
BVH (80°-90°)	6.0	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°	35°	45°	46°	55°	65°	75°
0°	5110.3	5110.3	5110.3	5110.3	5110.3	5110.3	5110.3	5110.3	5110.3	5110.3
2.5°	5581.5	5591.1	5584.7	5546.5	5482.8	5447.8	5428.7	5365.0	5323.6	5250.4
5°	6094.1	6132.3	6110.0	6033.6	5912.6	5826.7	5801.2	5670.7	5552.9	5415.9
7.5°	6638.6	6657.7	6616.3	6517.6	6355.2	6208.7	6186.5	6005.0	5817.1	5607.0
10°	7109.8	7132.1	7068.4	6925.1	6740.5	6559.0	6527.1	6326.6	6103.7	5845.8
12.5°	7504.6	7526.9	7444.1	7272.2	7068.4	6880.6	6848.7	6638.6	6393.4	6106.9
15°	7803.9	7845.3	7733.9	7549.2	7329.5	7141.7	7125.7	6918.8	6680.0	6361.6
17.5°	7979.0	8020.4	7915.4	7692.5	7504.6	7345.4	7326.3	7154.4	6931.5	6625.8
20°	8007.7	8045.9	7934.5	7740.2	7584.2	7456.9	7447.3	7323.1	7160.8	6867.8
22.5°	7921.7	7969.5	7867.6	7711.6	7603.3	7536.5	7523.7	7453.7	7361.3	7113.0
25°	7832.6	7870.8	7794.4	7657.5	7600.1	7593.8	7603.3	7590.6	7571.5	7361.3
27.5°	7826.2	7867.6	7781.6	7651.1	7619.2	7686.1	7695.7	7756.2	7772.1	7587.4
30°	7880.3	7909.0	7826.2	7689.3	7673.4	7826.2	7829.4	7937.6	7963.1	7778.4
32.5°	7998.1	8030.0	7947.2	7746.6	7724.3	7937.6	7947.2	8090.5	8131.9	7982.2
35°	8275.1	8313.4	8217.8	7905.8	7826.2	8042.7	8071.4	8240.1	8322.9	8198.7
37.5°	8966.1	8854.6	8724.1	8227.4	8058.6	8208.3	8256.0	8453.5	8599.9	8456.6
40°	10682.2	10332.0	9924.4	8775.0	8466.2	8561.7	8599.9	8797.3	8997.9	8857.8
42.5°	13258.1	12844.2	12188.3	10035.9	9080.7	9128.5	9157.1	9329.0	9612.4	9501.0
45°	15553.7	15404.1	14735.4	12188.3	10230.1	9994.5	10029.5	10118.7	10535.8	10494.4
47.5°	17317.6	17231.7	16715.9	14659.0	12172.3	11054.8	11153.5	11194.9	11796.6	11943.1
50°	18674.0	18642.2	18180.5	16856.0	14710.0	12618.1	12653.1	12564.0	13465.0	13828.0
52.5°	19954.0	20062.2	19721.5	18896.9	17419.5	14665.4	14659.0	14238.7	15455.0	16002.7
55°	21109.7	21148.0	21183.0	20979.2	20145.0	16996.1	16935.6	16247.8	17763.4	18330.1
57.5°	22195.5	22211.4	22523.4	22940.5	22981.9	19498.7	19387.2	18562.6	20285.1	20689.5
60°	22924.6	22997.8	23656.9	24815.9	25322.1	22080.9	22020.4	21179.8	22851.4	23039.2
62.5°	21873.9	22319.7	23981.7	26280.5	27531.8	24943.3	24914.6	24125.0	25551.4	25398.6
65°	17706.1	18460.7	21383.6	27270.7	29700.1	28140.0	28181.4	27340.8	28324.6	27827.9
67.5°	12385.7	13181.7	16639.4	27350.3	32123.1	31893.9	32132.7	30814.5	31269.8	30155.4
70°	8564.9	8975.6	11226.7	25637.4	34011.2	37064.6	37058.3	35081.0	34199.1	31215.7
72.5°	5759.8	5973.1	7291.3	20339.2	32623.0	40137.2	39952.5	38341.4	35186.1	29193.9
75°	2429.4	2585.4	3375.0	11430.5	25809.3	36720.8	36220.9	33883.9	31263.4	22988.3
77.5°	770.5	837.4	1330.9	4091.4	14216.4	27601.9	27073.3	21160.7	20953.7	11532.4
80°	366.2	426.7	748.2	1642.9	5594.2	15012.4	14939.2	9599.7	9013.8	3113.9
82.5°	159.2	187.9	413.9	878.8	2502.6	5355.4	5463.7	3266.8	2703.2	1181.3
85°	50.9	66.9	191.0	404.4	1057.1	1330.9	1315.0	776.9	1088.9	643.2
87.5°	0.0	0.0	63.7	92.3	108.3	76.4	86.0	66.9	302.5	178.3
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°
5110.3	0°	5110.3	5110.3	5110.3	5110.3	5110.3	5110.3	5110.3	5110.3	5110.3	5110.3
5174.0	2.5°	5135.7	5084.8	4995.7	4912.9	4839.6	4766.4	4721.8	4658.2	4651.8	4651.8
5256.7	5°	5170.8	5088.0	4928.8	4760.0	4565.8	4381.1	4196.5	4018.2	3960.9	3919.5
5390.5	7.5°	5272.7	5142.1	4890.6	4569.0	4199.7	3795.3	3511.9	3206.3	3088.5	3024.8
5568.8	10°	5419.1	5240.8	4858.7	4295.2	3696.6	3145.8	2741.4	2410.3	2282.9	2228.8
5763.0	12.5°	5581.5	5361.8	4801.4	3954.5	3145.8	2486.7	2091.9	1939.0	1919.9	1919.9
5995.4	15°	5775.7	5508.3	4702.7	3553.3	2569.5	1967.7	1827.6	1834.0	1853.1	1865.8
6221.5	17.5°	5976.3	5664.3	4546.7	3104.4	2060.0	1770.3	1773.5	1783.0	1798.9	1811.7
6466.7	20°	6192.8	5820.3	4339.8	2626.8	1767.1	1713.0	1722.5	1732.1	1744.8	1751.2
6695.9	22.5°	6425.3	5966.8	4094.6	2158.7	1668.4	1665.2	1668.4	1678.0	1693.9	1693.9
6963.4	25°	6673.6	6129.1	3814.4	1818.0	1617.5	1617.5	1623.8	1630.2	1642.9	1642.9
7221.3	27.5°	6928.3	6278.8	3518.3	1639.7	1572.9	1569.7	1569.7	1579.3	1585.6	1588.8
7476.0	30°	7208.5	6453.9	3222.2	1601.5	1537.9	1521.9	1512.4	1518.8	1525.1	1528.3
7743.4	32.5°	7495.1	6622.7	2957.9	1617.5	1502.8	1474.2	1442.3	1436.0	1436.0	1448.7
8020.4	35°	7813.5	6807.3	2754.1	1671.6	1483.7	1404.1	1353.2	1324.5	1327.7	1346.8
8351.6	37.5°	8195.5	7030.2	2604.5	1719.3	1471.0	1324.5	1241.7	1206.7	1184.4	1206.7
8806.9	40°	8695.4	7358.2	2496.2	1757.6	1455.1	1232.2	1120.8	1063.4	1022.1	1034.8
9513.7	42.5°	9430.9	7874.0	2454.8	1760.7	1420.1	1123.9	996.6	920.2	859.7	862.9
10577.2	45°	10462.5	8689.1	2668.2	1719.3	1343.6	1006.1	866.0	764.2	725.9	716.4
12166.0	47.5°	11876.2	9876.7	3161.7	1633.4	1232.2	891.5	738.7	652.7	624.1	608.1
14251.5	50°	13770.7	11401.8	3709.3	1537.9	1120.8	783.3	633.6	579.5	560.4	544.5
16725.4	52.5°	15967.6	12949.2	4158.3	1442.3	1009.3	687.7	566.7	534.9	519.0	506.3
19113.4	55°	17983.1	14015.9	4132.8	1340.5	901.1	611.3	519.0	499.9	480.8	468.0
21170.2	57.5°	19237.6	14165.5	3406.9	1229.0	776.9	550.8	474.4	461.7	439.4	423.5
22950.1	60°	19813.9	13312.2	2388.0	1082.6	652.7	493.5	426.7	420.3	391.6	369.3
24634.4	62.5°	19918.9	11726.6	1592.0	901.1	544.5	439.4	378.9	369.3	331.1	292.9
26003.5	65°	19492.3	9459.6	1101.7	703.7	464.9	382.1	324.8	305.7	264.3	226.1
26328.3	67.5°	18142.3	6641.8	767.3	506.3	394.8	302.5	257.9	251.5	219.7	187.9
24672.6	70°	15668.3	3785.7	512.6	378.9	312.0	207.0	203.8	210.1	178.3	152.8
20157.7	72.5°	12013.1	1732.1	318.4	277.0	213.3	140.1	162.4	165.6	136.9	114.6
12576.7	75°	7071.6	741.9	200.6	178.3	108.3	92.3	117.8	121.0	92.3	73.2
4597.7	77.5°	2407.1	280.2	127.4	105.1	54.1	50.9	76.4	76.4	50.9	28.7
923.4	80°	547.6	105.1	63.7	41.4	25.5	22.3	25.5	22.3	12.7	3.2
283.4	82.5°	156.0	41.4	25.5	15.9	9.6	9.6	3.2	0.0	0.0	0.0
98.7	85°	44.6	19.1	6.4	6.4	0.0	0.0	0.0	0.0	0.0	0.0
35.0	87.5°	19.1	3.2	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>
5110.3
4667.7
3938.6
3034.3
2228.8
1919.9
1865.8
1811.7
1754.4
1700.2
1646.1
1592.0
1534.7
1458.3
1356.4
1200.4
1028.4
850.1
703.7
598.6
541.3
503.1
461.7
420.3
363.0
273.8
213.3
178.3
140.1
101.9
63.7
22.3
0.0
0.0
0.0
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0.0

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