

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: P943974

Luminaire Tested: **GALN-SB8C-950-U-T2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943974  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB8C-950-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 90 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

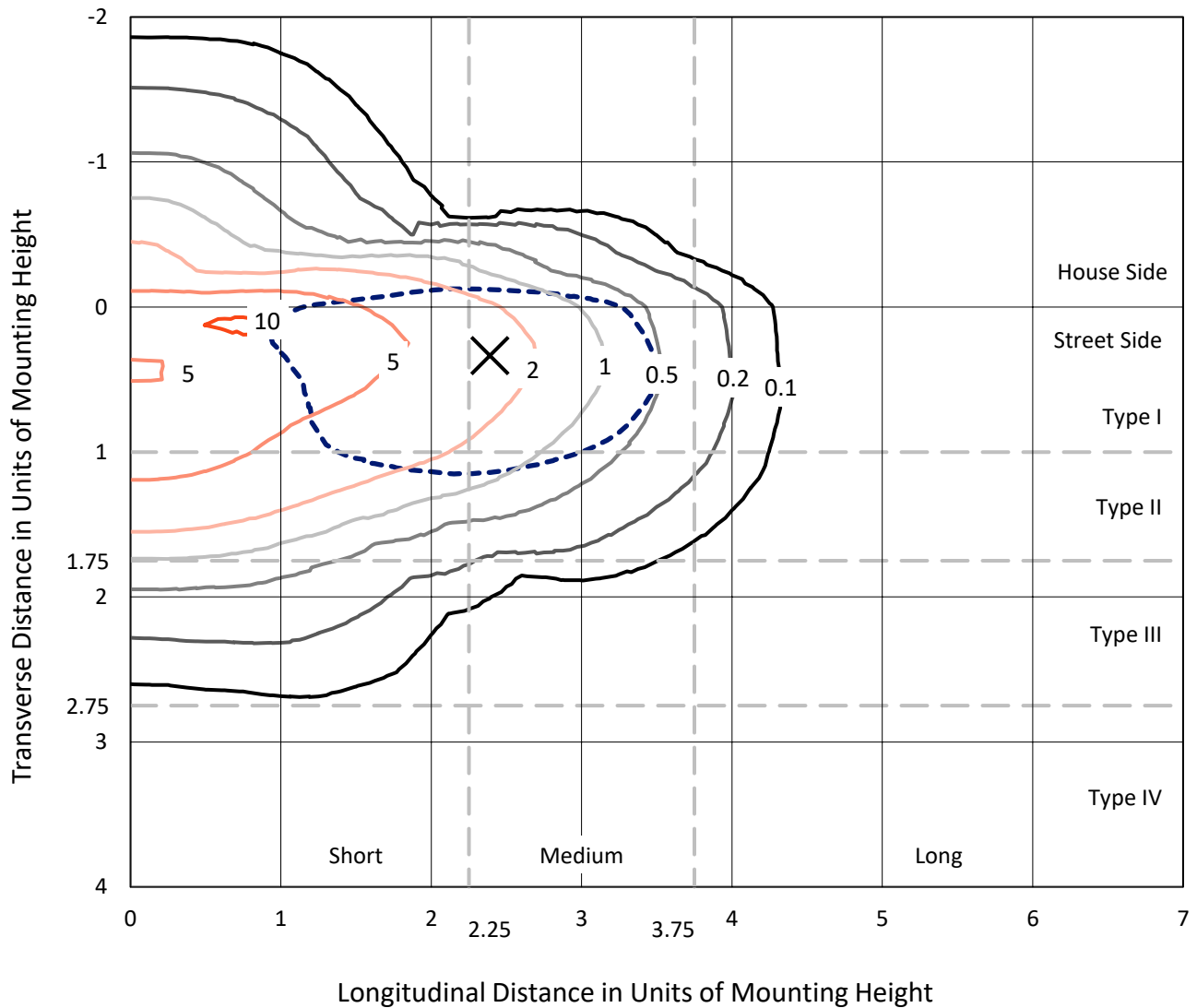
Lumens per Lamp: N/A  
Luminaire Lumens: 30763 lumens  
Efficiency: N/A  
Efficacy: 76.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 399.8  
Input Voltage (V): NR  
Input Current (Ain): 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

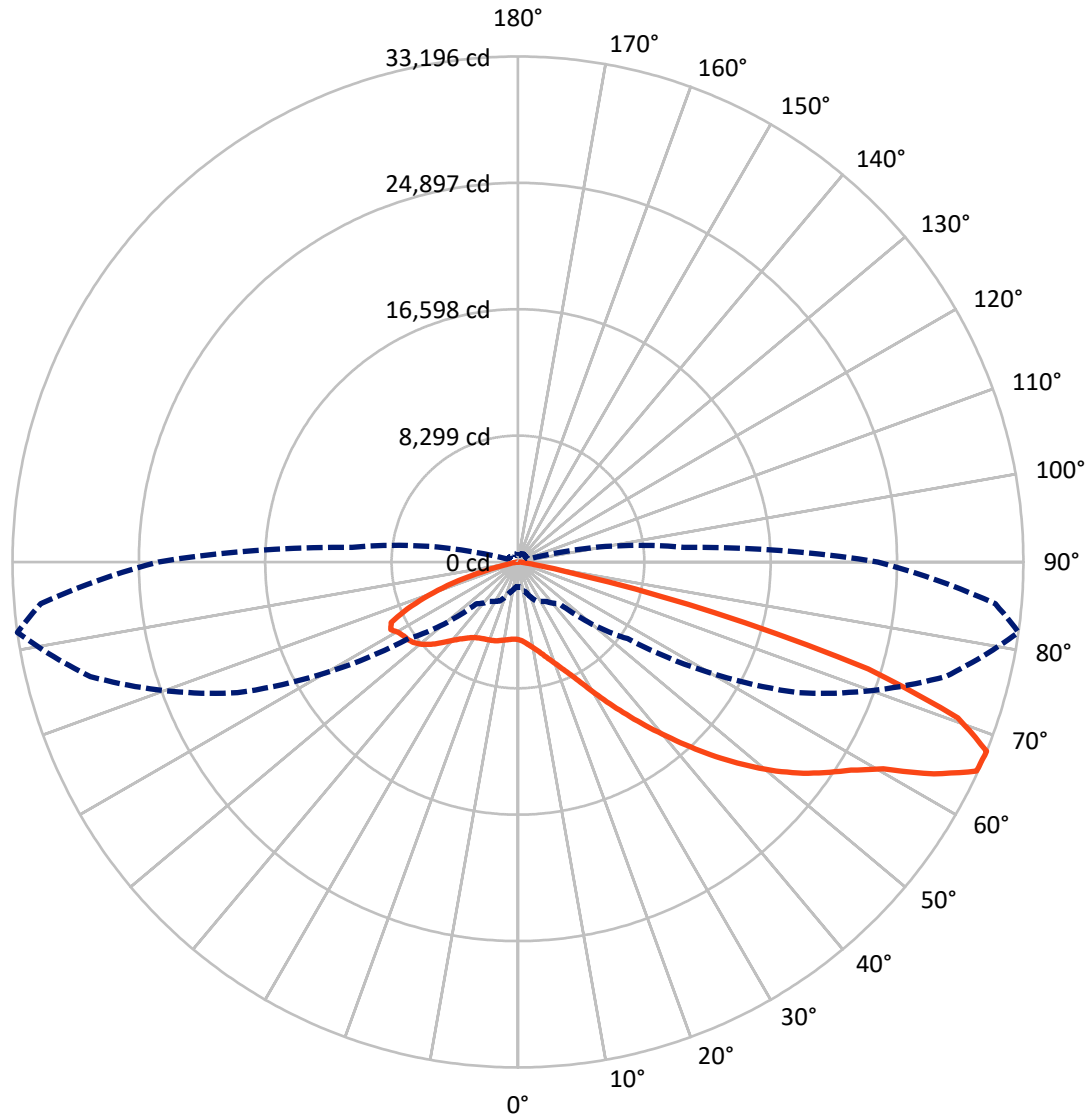
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5572.4	0.0	5572.4
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	25190.5	0.0	25190.5
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	30763.0	0.0	30763.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	454.1	1.5
10°-20°	1179.9	3.8
20°-30°	1889.8	6.1
30°-40°	3341.8	10.9
40°-50°	5855.1	19.0
50°-60°	7809.1	25.4
60°-70°	7269.8	23.6
70°-80°	2790.2	9.1
80°-90°	173.3	0.6
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°	30763.0	100.0
0°-180°	30763.0	100.0



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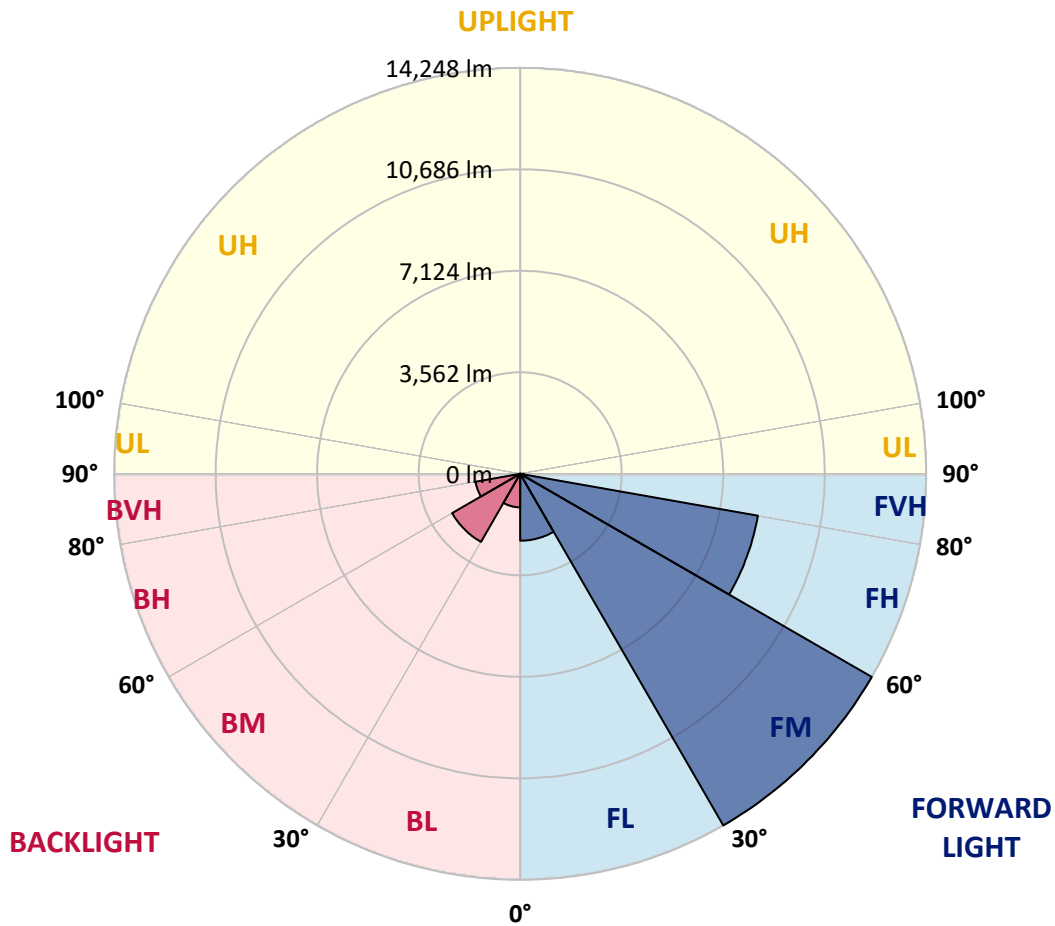
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2346.9	7.6			
FM (30°-60°)	14248.2	46.3			
FH (60°-80°)	8469.5	27.5			G4/12000
FVH (80°-90°)	126.0	0.4			G2/225
BL (0°-30°)	1176.9	3.8	B3/2500		
BM (30°-60°)	2757.8	9.0	B3/5000		
BH (60°-80°)	1590.5	5.2	B3/2500		G3/2500
BVH (80°-90°)	47.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	5096.4	5096.4	5096.4	5096.4	5096.4	5096.4	5096.4	5096.4	5096.4	5096.4
2.5°	5386.5	5417.5	5399.8	5391.0	5375.5	5353.3	5335.6	5280.2	5222.6	5185.0
5°	5495.1	5526.1	5523.9	5532.7	5543.8	5550.4	5546.0	5484.0	5402.0	5337.8
7.5°	5402.0	5437.5	5466.3	5510.6	5588.1	5670.0	5709.9	5696.6	5612.4	5523.9
10°	5138.5	5176.1	5244.8	5348.9	5512.8	5690.0	5838.4	5907.0	5853.9	5756.4
12.5°	4655.6	4693.3	4828.4	5054.3	5328.9	5636.8	5920.3	6104.1	6117.4	6020.0
15°	4113.0	4150.6	4294.6	4578.1	4996.7	5490.6	5964.6	6312.3	6429.7	6345.6
17.5°	3776.3	3809.6	3918.1	4146.2	4582.5	5198.3	5949.1	6533.8	6801.8	6735.4
20°	3674.4	3703.2	3754.2	3913.7	4276.9	4894.8	5847.2	6742.0	7202.7	7165.1
22.5°	3783.0	3809.6	3825.1	3895.9	4124.1	4695.5	5718.8	6954.7	7667.8	7672.3
25°	4033.3	4059.8	4042.1	4086.4	4186.1	4633.5	5670.0	7204.9	8252.6	8301.3
27.5°	4445.2	4447.4	4405.4	4403.1	4418.6	4726.5	5721.0	7472.9	8990.1	9080.9
30°	5271.4	5238.1	5076.5	4901.5	4821.7	5005.6	5862.7	7789.7	9860.5	10022.2
32.5°	6544.9	6496.2	6199.4	5780.8	5360.0	5455.2	6117.4	8150.7	10808.5	11100.9
35°	7927.0	7913.7	7603.6	6981.2	6245.9	6095.3	6531.6	8624.7	11842.8	12308.0
37.5°	9211.6	9204.9	9027.8	8294.6	7399.8	6987.9	7196.1	9244.8	12950.3	13623.6
40°	10385.5	10405.4	10228.2	9572.6	8671.2	8133.0	8099.7	10011.2	14181.7	15056.6
42.5°	11399.9	11422.0	11242.6	10757.6	9927.0	9399.9	9209.4	10950.3	15384.4	16595.9
45°	12088.7	12226.0	12199.4	11811.8	11216.0	10669.0	10542.7	12128.6	16755.4	18228.3
47.5°	12283.6	12409.8	12609.2	12662.3	12299.1	11760.9	11911.5	13548.3	18141.9	19862.8
50°	11803.0	11920.4	12334.5	12886.0	13138.5	12972.4	13242.6	15069.9	19561.6	21493.0
52.5°	10855.0	10974.6	11497.3	12370.0	13399.9	13922.6	14578.2	16569.4	20937.1	23036.7
55°	9484.0	9610.3	10281.4	11269.2	12901.5	14314.6	15692.3	18066.6	22197.3	24425.5
57.5°	7619.1	7712.1	8409.8	9791.9	11647.9	13924.8	16514.0	19701.2	23384.5	25789.8
60°	4965.7	5047.7	5858.3	7399.8	9570.4	12622.5	16677.9	21524.0	24961.4	27563.9
62.5°	3302.4	3357.7	3838.3	4970.1	6739.8	10121.9	15718.8	22979.2	27273.8	30651.4
65°	2265.8	2321.2	2801.8	3590.3	4354.4	6695.5	12961.3	22786.5	29369.0	33103.3
67.5°	1616.8	1663.4	2070.9	2815.1	3151.7	3889.3	8786.3	20323.5	29067.8	33196.3
70°	1158.4	1184.9	1521.6	2192.7	2505.0	2336.7	4886.0	15543.9	25450.9	30653.6
72.5°	810.6	819.5	1056.5	1670.0	2017.7	1705.4	2325.6	10363.3	19249.3	24060.0
75°	549.3	560.4	711.0	1224.8	1619.1	1302.3	1231.5	5557.1	11300.2	13317.9
77.5°	336.7	341.1	458.5	837.2	1211.5	992.3	792.9	2354.4	4372.1	4292.4
80°	190.5	190.5	292.4	520.5	826.1	640.1	555.9	1001.1	1384.3	1216.0
82.5°	106.3	108.5	212.6	323.4	547.1	378.7	305.7	462.9	598.0	529.4
85°	44.3	48.7	130.7	152.8	261.4	188.3	124.0	194.9	221.5	197.1
87.5°	4.4	6.6	39.9	28.8	31.0	37.7	17.7	37.7	31.0	31.0
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°
5096.4	0°	5096.4	5096.4	5096.4	5096.4	5096.4	5096.4	5096.4	5096.4	5096.4	5096.4
5171.7	2.5°	5129.6	5096.4	5012.2	4914.8	4786.3	4724.3	4640.1	4582.5	4533.8	4538.2
5300.2	5°	5229.3	5145.1	4956.9	4722.1	4429.7	4221.5	4000.0	3847.2	3723.2	3696.6
5477.3	7.5°	5366.6	5233.7	4903.7	4480.7	3986.7	3612.4	3278.0	3063.1	2910.3	2861.6
5692.2	10°	5543.8	5351.1	4835.0	4177.2	3466.3	2990.1	2631.3	2462.9	2358.8	2323.4
5944.7	12.5°	5749.8	5486.2	4744.2	3807.3	2930.3	2471.8	2243.7	2159.5	2126.3	2115.2
6254.8	15°	6008.9	5654.5	4606.9	3368.8	2476.2	2155.1	2057.6	2046.5	2051.0	2046.5
6626.9	17.5°	6316.8	5838.4	4383.2	2917.0	2170.6	1993.4	1957.9	1966.8	1977.9	1975.7
7043.2	20°	6653.4	6020.0	4097.5	2516.1	1962.4	1878.2	1858.3	1867.1	1876.0	1871.6
7523.9	22.5°	7036.6	6214.9	3780.8	2203.8	1822.8	1771.9	1749.7	1752.0	1752.0	1743.1
8133.0	25°	7495.1	6429.7	3448.5	1982.3	1716.5	1676.6	1650.1	1641.2	1627.9	1601.3
8872.7	27.5°	8042.1	6657.9	3129.6	1827.3	1632.4	1594.7	1563.7	1541.5	1508.3	1464.0
9760.9	30°	8657.9	6934.7	2859.4	1729.8	1565.9	1528.3	1492.8	1459.6	1410.9	1355.5
10781.9	32.5°	9382.1	7231.5	2662.3	1665.6	1506.1	1466.2	1424.2	1384.3	1331.1	1275.8
11929.2	35°	10245.9	7590.3	2547.1	1621.3	1459.6	1406.4	1359.9	1315.6	1275.8	1227.0
13176.2	37.5°	11182.8	7971.3	2511.6	1599.1	1428.6	1346.6	1293.5	1262.5	1258.0	1229.2
14525.0	40°	12208.3	8423.1	2538.2	1585.8	1395.4	1289.0	1231.5	1224.8	1235.9	1184.9
15966.9	42.5°	13293.6	8959.1	2582.5	1570.3	1348.8	1231.5	1176.1	1176.1	1167.2	1096.4
17490.7	45°	14467.5	9577.0	2626.8	1532.7	1293.5	1173.9	1131.8	1116.3	1078.6	1010.0
19023.4	47.5°	15650.2	10206.1	2660.0	1464.0	1227.0	1125.1	1087.5	1052.1	996.7	934.7
20527.3	50°	16773.1	10770.9	2624.6	1362.1	1151.7	1078.6	1038.8	990.0	930.2	888.2
21951.5	52.5°	17776.4	11260.3	2474.0	1242.5	1072.0	1029.9	994.5	943.5	894.8	850.5
23236.1	55°	18649.1	11656.8	2208.2	1129.6	1001.1	987.8	952.4	888.2	821.7	784.1
24509.6	57.5°	19486.3	11958.0	1876.0	1036.6	936.9	941.3	888.2	830.6	768.6	728.7
26226.1	60°	20600.4	12361.1	1539.3	950.2	868.2	881.5	823.9	781.8	704.3	653.4
29169.7	62.5°	22381.1	12987.9	1222.6	843.9	788.5	792.9	768.6	717.6	624.6	564.8
31351.3	65°	23794.2	12757.6	963.5	728.7	697.7	704.3	704.3	649.0	549.3	480.6
31468.7	67.5°	23634.7	10923.7	768.6	615.7	611.3	615.7	631.2	584.7	487.3	431.9
29072.2	70°	21772.1	8688.9	615.7	511.6	531.6	520.5	564.8	533.8	438.5	383.2
22538.4	72.5°	17765.4	6259.2	469.5	423.0	407.5	425.3	509.4	480.6	365.5	303.4
11938.1	75°	10381.0	3340.0	349.9	334.4	294.6	354.4	451.8	409.7	279.1	223.7
3658.9	77.5°	3379.9	1165.0	256.9	245.8	219.3	285.7	385.4	345.5	228.1	177.2
1072.0	80°	905.9	352.2	175.0	161.7	141.8	212.6	305.7	274.6	163.9	115.2
460.7	82.5°	363.2	148.4	101.9	90.8	77.5	146.2	241.4	221.5	121.8	73.1
144.0	85°	117.4	48.7	37.7	28.8	35.4	90.8	144.0	150.6	86.4	37.7
22.1	87.5°	15.5	6.6	6.6	8.9	6.6	15.5	44.3	42.1	24.4	4.4
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>
5096.4
4493.9
3636.8
2812.9
2296.8
2108.5
2044.3
1971.2
1869.3
1738.7
1596.9
1459.6
1351.1
1278.0
1222.6
1227.0
1187.2
1096.4
1007.8
932.5
881.5
846.1
779.6
724.3
646.7
560.4
474.0
423.0
376.5
296.8
217.1
170.5
113.0
73.1
28.8
0.0
0.0

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