

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: P953206

Luminaire Tested: **GALN-SB6D-827-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953206
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
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-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55086 lumens
Efficiency: N/A
Efficacy: 125.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

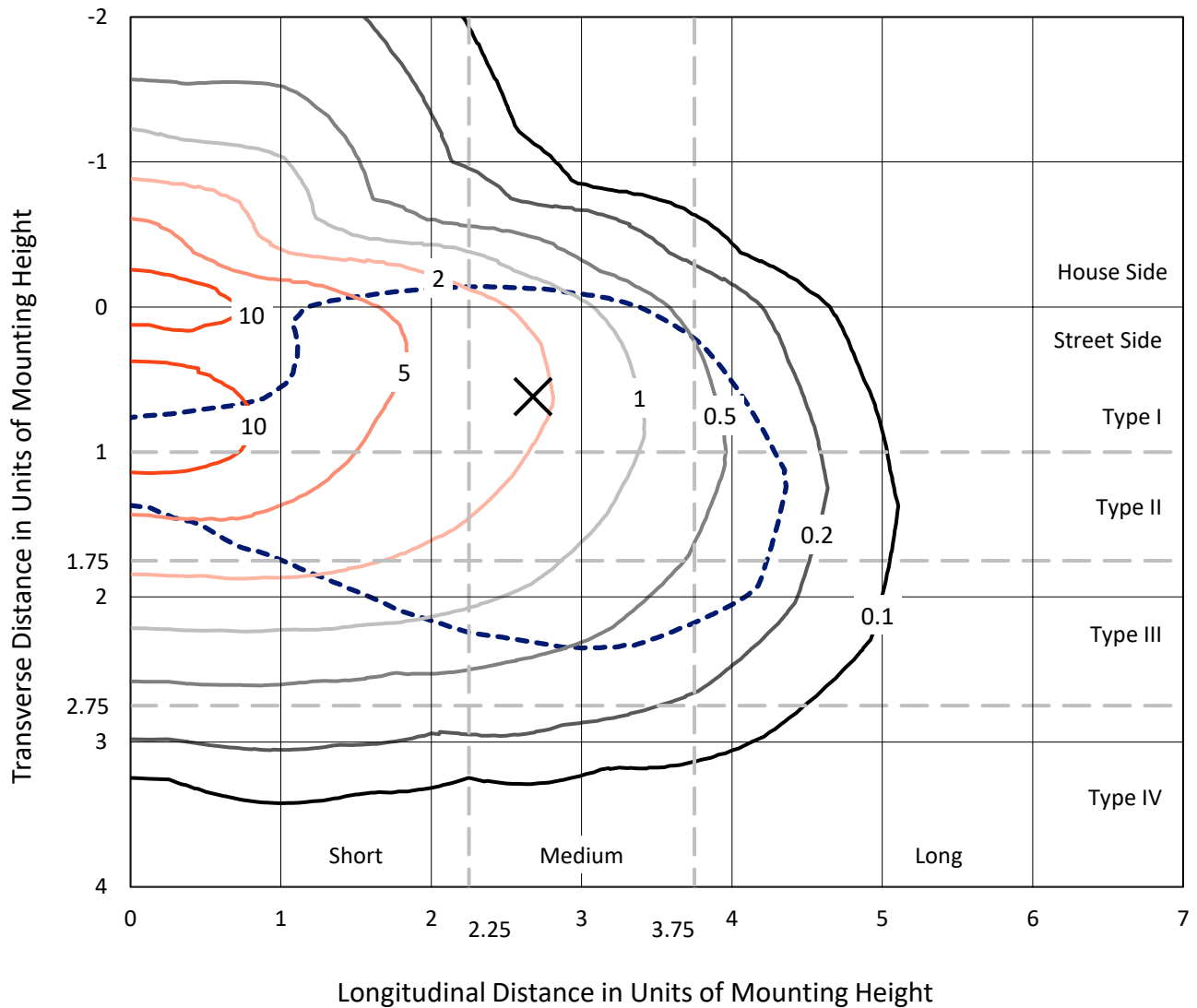
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

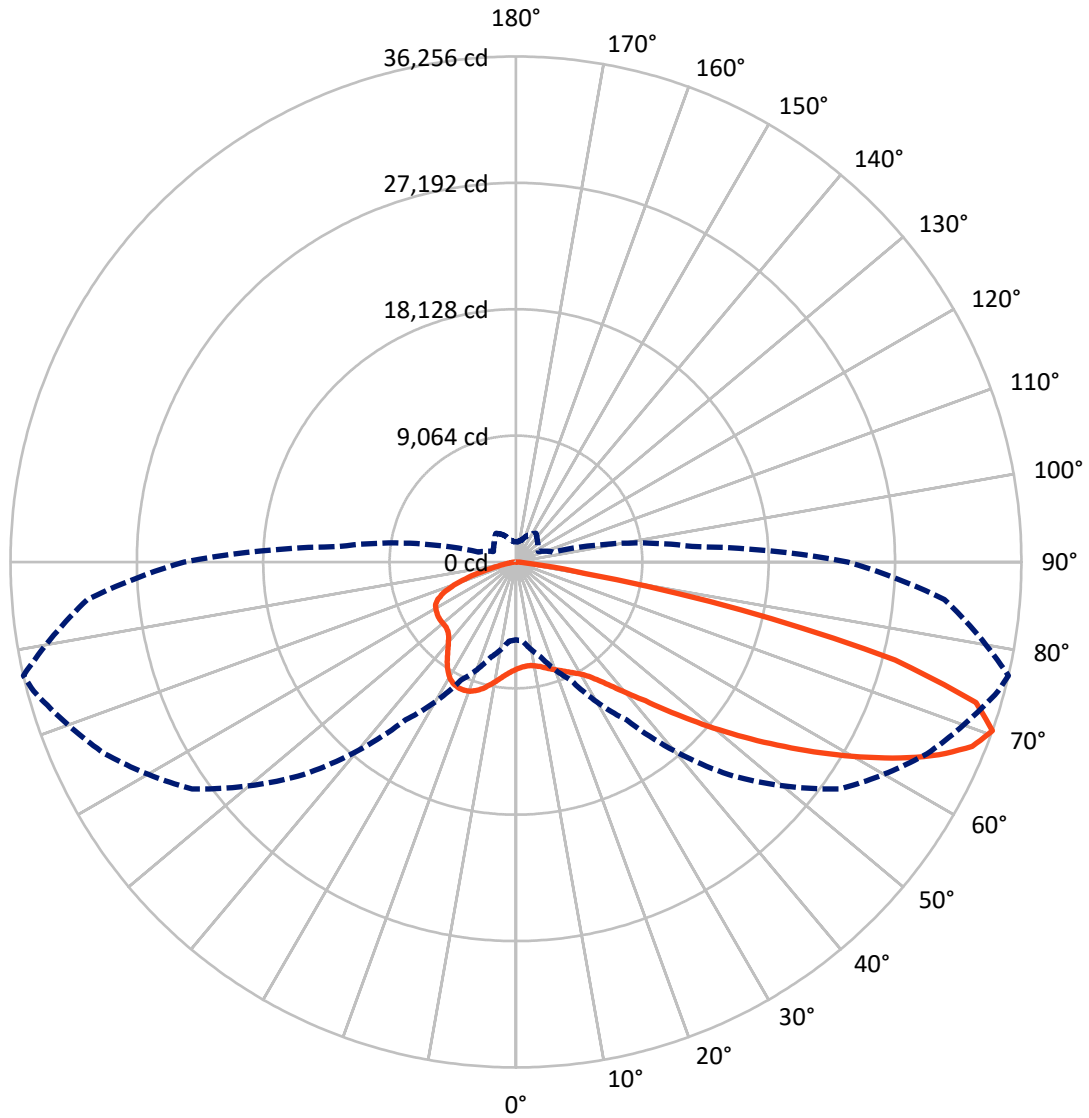
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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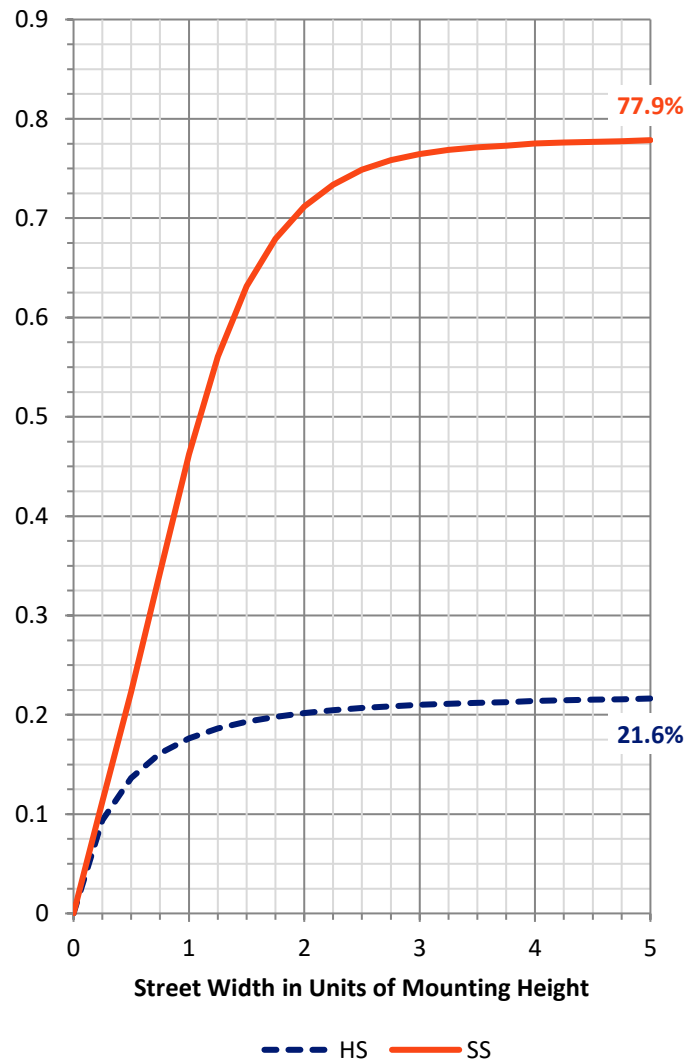
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12063.0	0.0	12063.0
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	43023.0	0.0	43023.0
	% Fixture	78.1	0.0	78.1
Total	Lumens	55086.0	0.0	55086.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	732.9	1.3
10°-20°	2115.3	3.8
20°-30°	3617.5	6.6
30°-40°	5817.4	10.6
40°-50°	9082.4	16.5
50°-60°	12132.0	22.0
60°-70°	12930.8	23.5
70°-80°	7960.1	14.5
80°-90°	697.5	1.3
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°	55086.0	100.0
0°-180°	55086.0	100.0



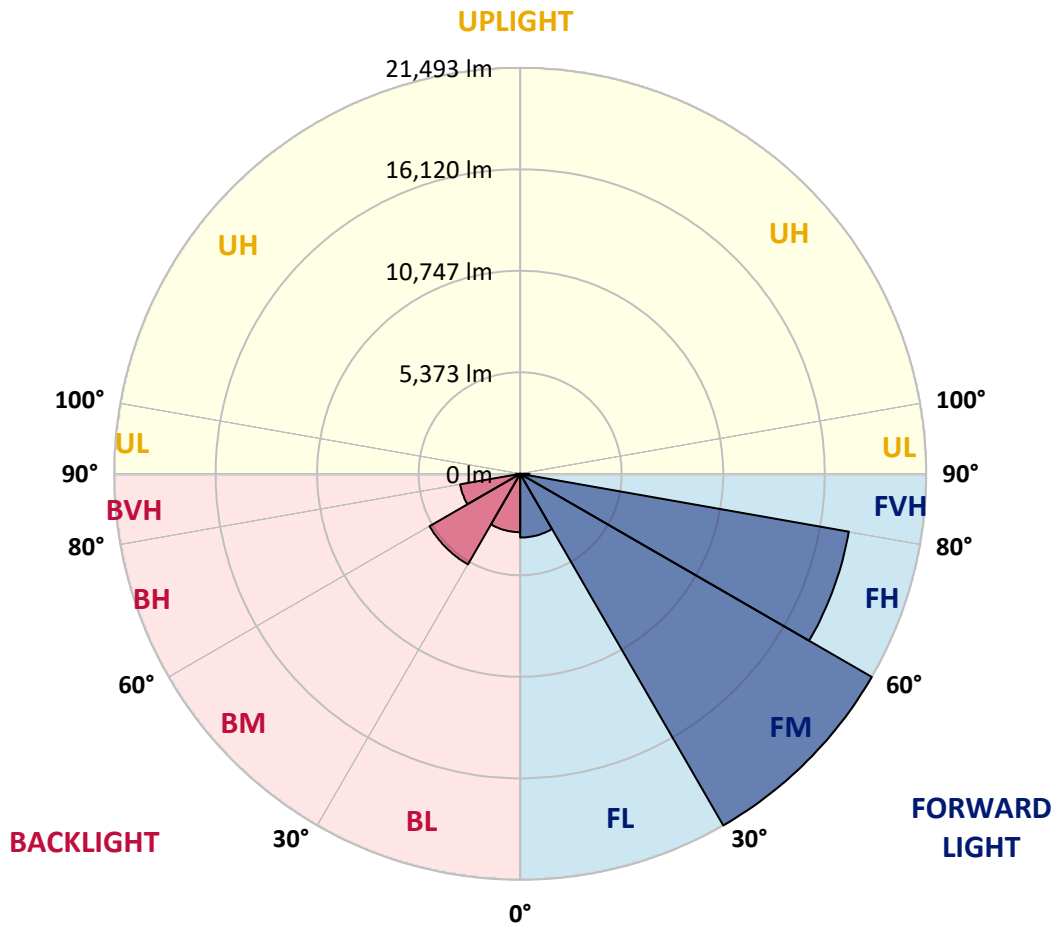
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3374.9	6.1			
FM (30°-60°)	21493.4	39.0			
FH (60°-80°)	17667.0	32.1			G5
FVH (80°-90°)	487.8	0.9			G3/500
BL (0°-30°)	3090.9	5.6	B4/5000		
BM (30°-60°)	5538.4	10.1	B4/8500		
BH (60°-80°)	3223.9	5.9	B4/5000		G4/5000
BVH (80°-90°)	209.8	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	7685.0	7685.0	7685.0	7685.0	7685.0	7685.0	7685.0	7685.0	7685.0	7685.0
2.5°	7084.1	7081.3	7117.9	7129.2	7196.9	7244.9	7335.2	7431.1	7555.2	7569.3
5°	6675.0	6675.0	6717.3	6762.5	6849.9	6945.8	7084.1	7250.5	7464.9	7498.8
7.5°	6328.0	6350.6	6387.2	6474.7	6576.3	6714.5	6926.1	7163.1	7445.2	7498.8
10°	6048.7	6074.1	6119.2	6189.8	6342.1	6533.9	6810.4	7115.1	7493.2	7577.8
12.5°	5961.2	5986.6	6012.0	6065.6	6206.7	6432.4	6762.5	7137.7	7608.8	7693.5
15°	6164.4	6195.4	6175.6	6161.5	6234.9	6440.8	6785.0	7219.5	7752.7	7874.0
17.5°	6632.7	6644.0	6598.8	6466.2	6454.9	6565.0	6892.2	7332.3	7933.3	8065.9
20°	7388.8	7369.0	7275.9	7013.5	6864.0	6841.5	7075.6	7501.6	8119.5	8260.5
22.5°	8415.7	8393.1	8206.9	7792.2	7459.3	7239.2	7340.8	7721.7	8328.2	8486.2
25°	9696.5	9665.5	9391.8	8827.6	8311.3	7766.8	7701.9	8012.3	8585.0	8731.7
27.5°	11191.8	11166.4	10870.2	10125.4	9380.6	8489.0	8150.5	8353.6	8853.0	9019.4
30°	12799.9	12873.2	12348.5	11547.2	10605.0	9431.3	8754.2	8774.0	9200.0	9349.5
32.5°	14690.1	14817.0	14185.1	13169.4	11883.0	10455.4	9516.0	9360.8	9705.0	9829.1
35°	16563.4	16707.3	16182.5	15059.7	13578.5	11662.9	10311.6	10035.1	10376.4	10511.9
37.5°	18182.8	18374.6	18103.8	17127.6	15392.6	13118.7	11349.8	10827.8	11203.1	11372.3
40°	19460.8	19754.2	19734.4	19125.0	17531.1	14884.7	12667.3	11806.8	12230.0	12413.4
42.5°	20499.0	20752.9	20972.9	20941.9	19762.6	16890.6	14216.1	13079.2	13400.8	13612.4
45°	21215.6	21486.4	21960.4	22471.0	21909.6	19037.6	15990.7	14588.5	14881.9	15200.7
47.5°	21856.0	22163.5	22778.5	23588.2	23732.1	21193.0	17934.5	16346.1	16614.2	16944.2
50°	21912.4	22177.6	23131.2	24279.4	25027.0	23263.8	20022.2	18318.2	18569.3	18921.9
52.5°	20549.8	20967.3	22631.8	24259.7	25622.3	24996.0	22095.8	20369.2	20651.3	21074.5
55°	15951.2	16563.4	21167.6	23503.6	25410.7	26116.0	24067.8	22550.0	22911.1	23354.0
57.5°	13739.3	14007.4	16803.2	22126.8	24445.9	26406.6	25732.3	24753.4	25334.5	25819.8
60°	12348.5	12571.4	14224.6	19985.5	23176.3	25946.7	27018.8	26807.2	27811.6	28389.9
62.5°	10858.9	11070.5	12574.2	16687.5	21551.3	25182.2	27831.3	28703.1	30350.7	30982.6
65°	9380.6	9561.1	11002.8	14021.5	19486.2	24417.6	28251.7	30342.2	32700.7	33355.3
67.5°	7733.0	7882.5	9245.1	11829.4	16975.3	23371.0	28460.5	31631.5	34746.1	35307.6
70°	5580.4	5696.0	7103.8	9355.2	13824.0	21571.0	28375.8	32545.6	35806.9	36255.5
72.5°	2637.8	2742.2	4395.5	6074.1	9764.2	18067.1	26663.3	31820.5	34729.2	34506.3
75°	1407.8	1498.1	2525.0	3331.9	5157.2	12385.1	21819.3	27411.0	29162.9	28079.6
77.5°	953.6	1024.1	1563.0	2000.2	2355.7	5879.4	14024.3	18978.3	18258.9	16470.3
80°	756.1	829.4	1280.8	1354.2	1139.8	2124.4	5794.8	8785.3	6311.1	5047.2
82.5°	581.2	663.0	1077.7	981.8	620.7	871.8	1687.1	2778.9	1616.6	1230.1
85°	355.5	442.9	846.4	626.3	349.8	397.8	572.7	773.0	493.7	411.9
87.5°	180.6	253.9	428.8	228.5	158.0	93.1	152.3	152.3	129.8	112.8
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°
7685.0	0°	7685.0	7685.0	7685.0	7685.0	7685.0	7685.0	7685.0	7685.0	7685.0	7685.0
7645.5	2.5°	7713.2	7769.6	7865.6	7955.8	8026.4	8094.1	8161.8	8198.5	8209.7	8254.9
7687.8	5°	7803.5	7907.9	8094.1	8269.0	8379.0	8446.7	8494.7	8522.9	8528.5	8542.6
7803.5	7.5°	7969.9	8136.4	8395.9	8570.9	8652.7	8647.0	8627.3	8556.8	8528.5	8503.2
7972.8	10°	8204.1	8424.2	8743.0	8864.3	8813.5	8678.1	8503.2	8297.2	8201.3	8108.2
8204.1	12.5°	8494.7	8774.0	9087.1	9081.5	8830.4	8483.4	8077.1	7761.2	7560.9	7417.0
8489.0	15°	8847.3	9169.0	9408.8	9216.9	8666.8	8043.3	7448.0	7036.1	6855.6	6697.6
8776.8	17.5°	9211.3	9555.5	9665.5	9174.6	8254.9	7391.6	6717.3	6392.9	6215.1	6130.5
9087.1	20°	9566.8	9908.1	9817.8	8932.0	7628.6	6652.4	6051.5	5873.8	5837.1	5856.8
9389.0	22.5°	9942.0	10246.7	9848.9	8463.7	6830.2	5896.3	5566.3	5571.9	5653.7	5713.0
9705.0	25°	10325.7	10531.6	9767.1	7786.6	5972.5	5340.6	5258.8	5349.0	5509.8	5625.5
10060.5	27.5°	10695.2	10785.5	9589.3	6948.7	5236.2	4942.8	4956.9	5143.1	5385.7	5546.5
10492.1	30°	11112.8	11011.2	9248.0	6006.4	4725.5	4601.4	4719.9	4937.1	5179.8	5323.6
11036.6	32.5°	11583.9	11205.9	8706.3	5134.6	4364.4	4327.7	4522.4	4663.5	4770.7	4813.0
11758.8	35°	12170.7	11479.5	8012.3	4522.4	4040.0	4127.4	4313.6	4243.1	4200.8	4178.2
12729.3	37.5°	12932.5	11849.1	7199.7	4124.6	3777.6	3983.6	4059.7	3839.7	3673.2	3591.4
13905.8	40°	13849.4	12390.8	6418.3	3817.1	3611.2	3859.4	3726.8	3461.6	3250.0	3134.4
15228.9	42.5°	14867.8	12957.9	5760.9	3585.8	3518.1	3757.9	3481.4	3165.4	2824.0	2787.4
16806.0	45°	15937.1	13541.8	5312.4	3408.0	3472.9	3670.4	3340.3	2829.7	2587.1	2736.6
18388.7	47.5°	17006.3	14077.9	5041.5	3275.4	3450.4	3571.7	3216.2	2643.5	2471.4	2688.6
20084.3	50°	18196.9	14557.5	4920.2	3179.5	3425.0	3532.2	3030.0	2595.5	2350.1	2494.0
21839.1	52.5°	19379.0	14929.9	4829.9	3083.6	3388.3	3501.1	2939.7	2539.1	2203.4	2211.8
23605.1	55°	20558.2	15172.5	4731.2	2956.6	3306.5	3433.4	2931.2	2477.0	2093.3	2053.8
25472.8	57.5°	21816.5	15310.8	4609.9	2815.6	3165.4	3261.3	2922.8	2429.1	2059.5	1994.6
27382.7	60°	23097.3	15513.9	4451.9	2643.5	2976.4	3055.4	2903.0	2412.1	2039.7	1929.7
29182.7	62.5°	24245.6	15584.4	4262.9	2479.9	2733.8	2852.3	2860.7	2398.0	1986.1	1797.1
30677.9	65°	24998.8	15279.7	3932.8	2293.7	2471.4	2643.5	2778.9	2350.1	1890.2	1701.2
31417.1	67.5°	24967.8	14410.8	3416.5	2053.8	2217.5	2412.1	2660.4	2268.3	1774.5	1582.7
30858.5	70°	23805.4	12695.5	2762.0	1774.5	1938.2	2163.9	2508.1	2146.9	1636.3	1452.9
27439.2	72.5°	20417.2	9936.3	2005.9	1447.3	1613.7	1907.1	2310.6	2000.2	1495.2	1337.3
20278.9	75°	14585.7	6288.5	1359.8	1111.6	1255.4	1616.6	2065.1	1828.1	1365.5	1342.9
10156.4	77.5°	7450.8	3004.6	900.0	812.5	874.6	1275.2	1735.0	1633.5	1385.2	1108.7
2888.9	80°	2423.4	1108.7	567.1	553.0	581.2	849.2	1342.9	1340.1	1049.5	753.3
699.7	82.5°	773.0	476.8	369.6	355.5	341.4	533.2	936.6	1060.8	708.1	476.8
251.1	85°	307.5	284.9	217.2	200.3	143.9	251.1	490.9	705.3	527.6	344.2
64.9	87.5°	112.8	112.8	59.2	42.3	31.0	84.6	132.6	211.6	301.9	177.7
0.0	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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<u>180°</u>
7685.0
8280.3
8565.2
8508.8
8080.0
7383.1
6680.6
6155.9
5848.4
5727.1
5656.5
5586.0
5357.5
4835.6
4200.8
3611.2
3142.8
2824.0
2815.6
2790.2
2601.2
2271.1
2082.1
2003.1
1938.2
1797.1
1701.2
1591.2
1469.9
1328.8
1266.7
987.4
665.8
474.0
352.7
174.9
0.0

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