

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: P943347

Luminaire Tested: **GALN-SB7D-740-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943347
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7D-740-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 76616 lumens
Efficiency: N/A
Efficacy: 149.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

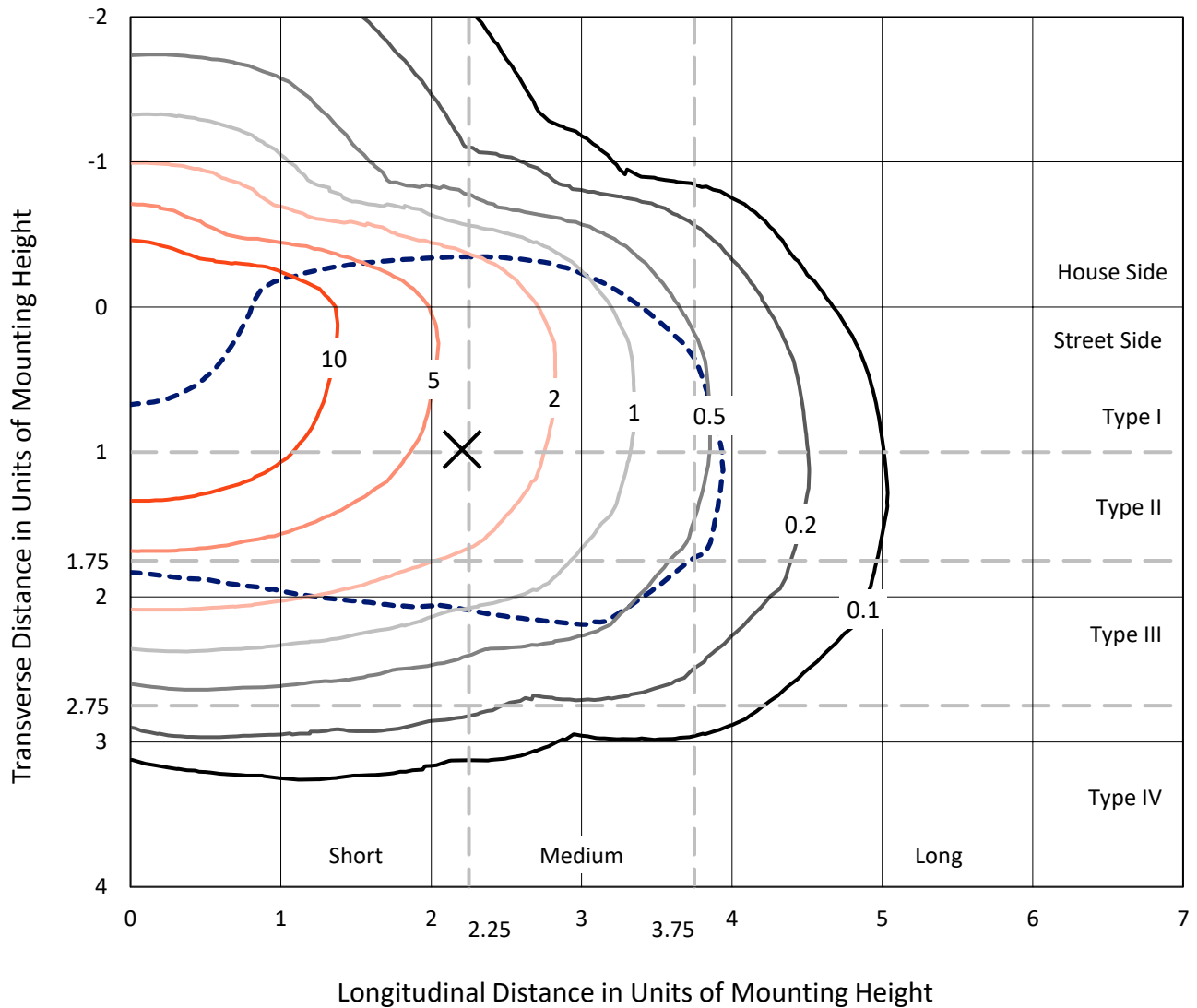
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

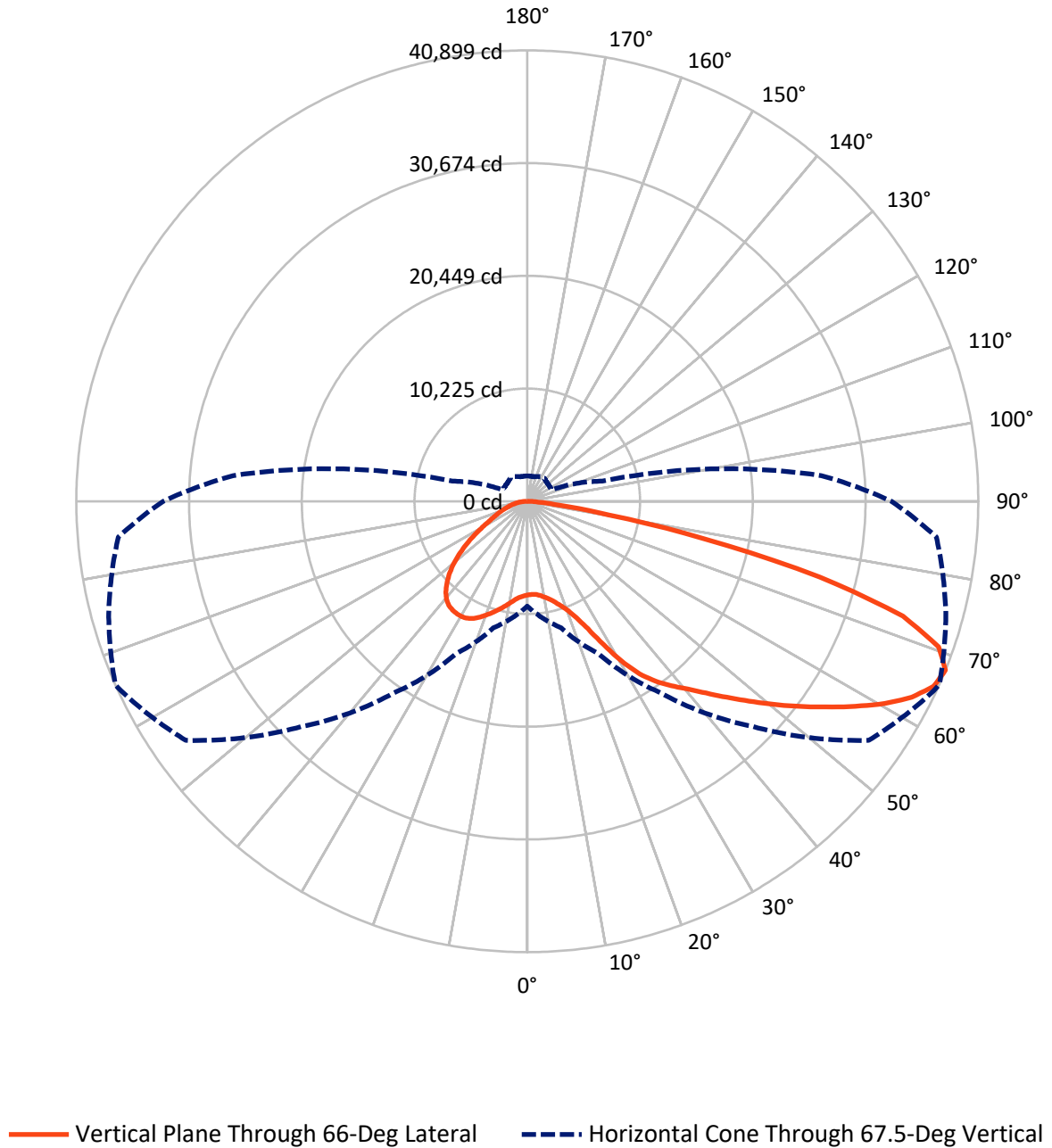
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19050.4	0.0	19050.4
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	57565.7	0.0	57565.7
	% Fixture	75.1	0.0	75.1
Total	Lumens	76616.0	0.0	76616.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	842.5	1.1
10°-20°	2783.6	3.6
20°-30°	5365.2	7.0
30°-40°	9407.1	12.3
40°-50°	13985.3	18.3
50°-60°	17727.7	23.1
60°-70°	17346.1	22.6
70°-80°	8274.3	10.8
80°-90°	884.3	1.2
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°	76616.0	100.0
0°-180°	76616.0	100.0

Coefficient of Utilization



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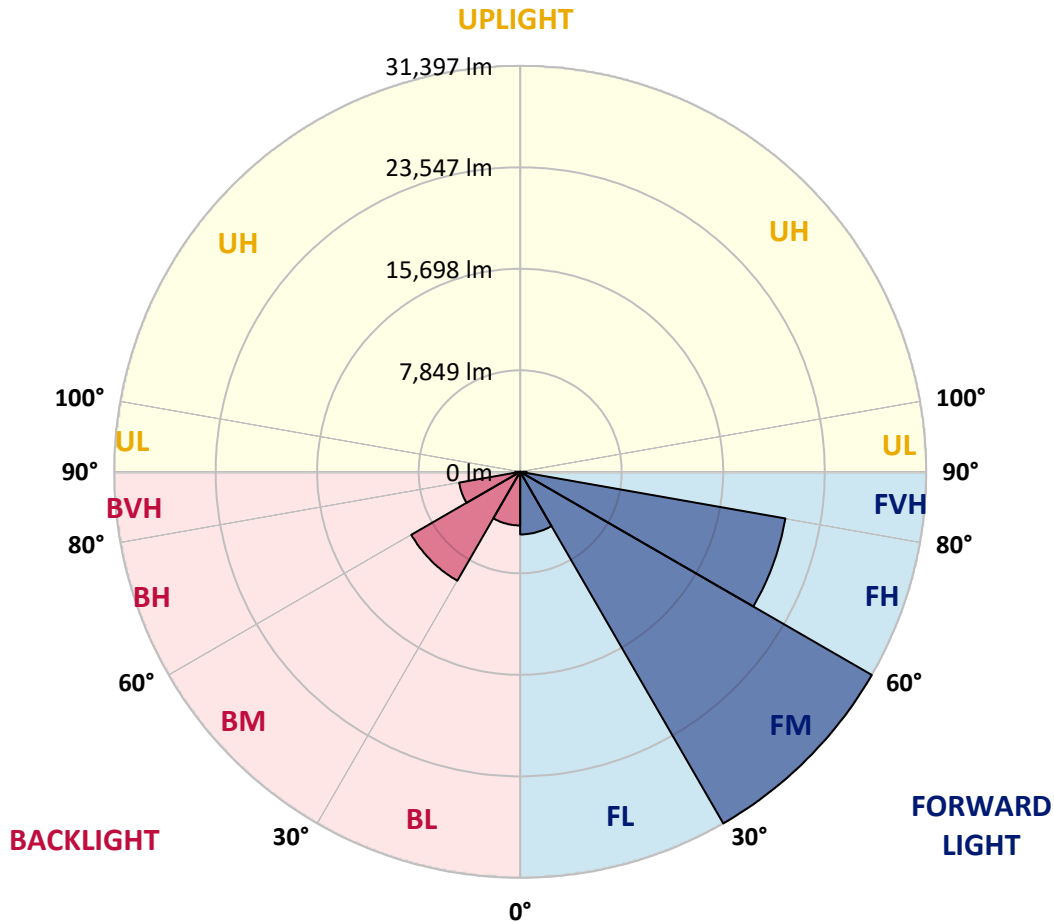
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4841.4	6.3			
FM (30°-60°)	31396.6	41.0			
FH (60°-80°)	20826.3	27.2			G5
FVH (80°-90°)	501.4	0.7			G4/750
BL (0°-30°)	4149.9	5.4	B4/5000		
BM (30°-60°)	9723.5	12.7	B5		
BH (60°-80°)	4794.1	6.3	B4/5000		G4/5000
BVH (80°-90°)	382.9	0.5			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	8497.7	8497.7	8497.7	8497.7	8497.7	8497.7	8497.7	8497.7	8497.7	8497.7
2.5°	8409.2	8457.5	8445.4	8425.3	8421.2	8429.3	8441.4	8453.4	8449.4	8469.5
5°	8385.0	8433.3	8429.3	8429.3	8445.4	8477.6	8497.7	8517.9	8497.7	8521.9
7.5°	8401.1	8437.3	8453.4	8469.5	8509.8	8570.2	8618.5	8662.8	8638.6	8666.8
10°	8606.4	8634.6	8650.7	8650.7	8678.9	8747.3	8795.6	8876.1	8856.0	8900.3
12.5°	8980.8	9009.0	9009.0	8992.9	9013.0	9057.3	9073.4	9161.9	9125.7	9198.2
15°	9439.7	9496.0	9451.8	9423.6	9431.6	9475.9	9471.9	9540.3	9504.1	9564.5
17.5°	9946.9	10019.3	9946.9	9942.9	9926.8	9975.1	9979.1	10039.5	9975.1	10019.3
20°	10546.7	10647.3	10586.9	10607.1	10570.8	10591.0	10611.1	10699.6	10599.0	10631.2
22.5°	11392.0	11512.8	11448.4	11524.9	11500.7	11484.6	11480.6	11637.6	11480.6	11492.7
25°	12623.8	12768.7	12656.0	12760.7	12760.7	12813.0	12873.4	13074.7	12813.0	12736.5
27.5°	14443.3	14588.2	14366.8	14431.2	14411.1	14539.9	14475.5	14974.7	14692.9	14568.1
30°	16633.2	16890.8	16472.1	16456.0	16435.9	16641.2	16733.8	17063.9	16778.1	16653.3
32.5°	19000.1	19269.8	18770.7	18625.8	18549.3	18674.1	18597.6	18863.3	18666.0	18472.8
35°	21504.0	21769.6	21294.6	21012.9	20706.9	20445.3	20171.5	20240.0	20054.8	19760.9
37.5°	23870.9	24358.0	23854.8	23552.9	22989.4	22478.1	21713.3	21395.3	21222.2	20952.5
40°	26282.2	26559.9	26177.5	25919.9	25308.0	24506.9	23283.2	22611.0	22377.5	22115.8
42.5°	28057.4	28323.1	28117.8	27940.7	27461.6	26531.7	24949.7	24108.4	23770.3	23476.4
45°	29466.3	29663.5	29534.7	29599.1	29393.8	28492.1	26676.7	25714.6	25364.4	25006.1
47.5°	30033.9	30243.2	30448.5	30830.9	31181.1	30516.9	28532.4	27453.6	27083.2	26716.9
50°	29969.5	30182.8	30778.6	31591.7	32678.6	32457.2	30488.8	29305.3	28963.1	28544.5
52.5°	29454.2	29695.8	30460.6	31813.1	33544.1	33910.4	32481.4	31217.4	30895.3	30396.2
55°	28101.7	28246.6	29393.8	31310.0	33749.4	34924.8	34433.7	33254.3	32932.2	32235.8
57.5°	25593.8	25803.1	27473.7	29953.4	33234.1	35613.2	36148.5	35395.8	35085.8	34083.5
60°	22321.1	22655.2	24567.3	27675.0	31921.8	35609.1	37706.4	37501.1	37243.5	35903.0
62.5°	18617.7	19004.2	20843.8	24454.6	29627.3	34598.8	38680.6	39264.2	39131.4	37581.6
65°	14298.4	14564.1	16395.7	20288.3	26056.7	32429.0	38793.3	40467.9	40492.0	38857.7
67.5°	9520.2	10285.0	11875.1	15224.3	21274.5	28882.6	37803.0	40665.1	40898.6	39296.5
70°	4645.4	5651.7	7209.6	9894.6	15224.3	23444.2	35214.6	39046.9	39566.2	38016.4
72.5°	1928.2	2254.3	3103.6	4882.9	8739.3	15820.0	30013.8	34659.1	35621.2	33685.0
75°	1300.2	1408.9	1775.2	2503.8	3981.2	7801.3	21644.8	25843.4	27393.2	25440.8
77.5°	1002.3	1070.8	1292.2	1751.1	2367.0	2950.7	11585.2	15574.5	16375.5	15159.8
80°	789.0	841.3	966.1	1276.1	1678.6	1578.0	3949.0	7056.6	7519.5	6307.9
82.5°	684.3	704.5	692.4	865.5	1115.0	921.8	1296.2	2604.5	2874.2	2085.2
85°	495.1	551.5	575.6	535.4	591.7	467.0	531.4	921.8	1014.4	905.7
87.5°	201.3	297.9	366.3	346.2	217.4	132.8	165.0	269.7	310.0	338.1
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°
8497.7	0°	8497.7	8497.7	8497.7	8497.7	8497.7	8497.7	8497.7	8497.7	8497.7	8497.7
8501.8	2.5°	8505.8	8534.0	8554.1	8578.2	8594.3	8618.5	8666.8	8695.0	8699.0	8719.1
8566.2	5°	8582.3	8622.5	8666.8	8731.2	8803.7	8864.0	8956.6	9021.0	9045.2	9065.3
8723.2	7.5°	8747.3	8803.7	8884.2	8996.9	9101.5	9182.1	9294.8	9371.2	9447.7	9475.9
8972.7	10°	8992.9	9073.4	9190.1	9343.1	9455.8	9560.4	9677.2	9741.6	9818.1	9850.3
9270.6	12.5°	9298.8	9383.3	9536.3	9749.6	9854.3	9926.8	9967.0	9950.9	9967.0	9995.2
9628.9	15°	9649.0	9741.6	9914.7	10144.1	10216.6	10152.2	10063.6	9983.1	9971.0	9979.1
10063.6	17.5°	10063.6	10132.1	10333.3	10526.6	10474.2	10208.5	10015.3	9886.5	9822.1	9802.0
10619.1	20°	10643.3	10643.3	10808.3	10929.1	10578.9	10128.0	9826.1	9616.8	9484.0	9427.6
11375.9	22.5°	11347.7	11283.3	11388.0	11303.5	10558.8	9902.6	9484.0	9121.7	8920.4	8839.9
12434.6	25°	12241.4	12164.9	12136.7	11613.4	10413.8	9544.3	8864.0	8425.3	8248.1	8203.9
13960.3	27.5°	13589.9	13396.7	13030.4	11782.5	10148.2	8980.8	8139.5	7732.9	7632.3	7636.3
15920.7	30°	15385.3	14998.8	14101.2	11810.7	9713.4	8183.7	7398.8	7108.9	7060.6	7080.8
17567.1	32.5°	17047.8	16681.5	15196.1	11681.9	9045.2	7402.8	6734.6	6541.4	6468.9	6493.1
18823.0	35°	18352.0	18251.4	16210.5	11500.7	8224.0	6670.2	6138.8	5973.8	5832.9	5800.7
20006.5	37.5°	19583.8	19543.6	16971.3	11247.1	7410.9	6150.9	5659.8	5442.4	5237.1	5124.4
21314.8	40°	20936.4	20896.1	17470.5	10856.6	6690.3	5700.0	5229.1	4943.3	4689.7	4484.4
22796.1	42.5°	22458.0	22220.5	17708.0	10297.1	6078.4	5317.6	4878.8	4492.4	4158.3	3969.1
24470.7	45°	24120.5	23585.1	17703.9	9584.6	5563.2	4967.4	4504.5	3957.0	3647.1	3469.9
26189.6	47.5°	25883.6	24889.4	17486.6	8795.6	5064.0	4581.0	3924.8	3506.2	3300.9	3192.2
28057.4	50°	27703.2	26109.1	17116.2	7889.9	4552.8	4142.2	3562.5	3276.7	3119.7	3019.1
29909.1	52.5°	29414.0	27216.1	16669.4	6863.4	4033.5	3715.5	3401.5	3180.1	3015.1	2902.4
31704.5	55°	31004.0	28170.1	16037.4	5812.8	3610.8	3429.7	3325.0	3139.9	2950.7	2817.8
33528.0	57.5°	32417.0	28790.0	14946.5	4826.5	3308.9	3232.4	3244.5	3071.4	2854.0	2741.3
35323.3	60°	33592.4	29244.9	13332.3	3912.7	3063.4	3039.2	3119.7	2942.6	2689.0	2560.2
36840.9	62.5°	34296.8	29236.9	11351.8	3204.3	2854.0	2862.1	2954.7	2781.6	2524.0	2403.2
37633.9	65°	34236.5	28520.3	9178.0	2741.3	2652.8	2660.8	2781.6	2604.5	2387.1	2314.6
37235.4	67.5°	33024.8	26773.3	7040.5	2439.4	2431.4	2467.6	2608.5	2483.7	2302.6	2294.5
34860.4	70°	29744.1	23146.3	5072.1	2197.9	2201.9	2254.3	2439.4	2407.2	2258.3	2274.4
29309.3	72.5°	23850.8	17647.6	3405.5	1944.3	1948.3	2032.9	2278.4	2346.8	2214.0	2427.3
20795.5	75°	15884.4	11005.6	2189.8	1674.6	1678.6	1787.3	2137.5	2230.1	2093.2	2419.3
10820.4	77.5°	7632.3	4947.3	1586.0	1408.9	1408.9	1509.5	1847.7	1996.6	1783.3	1879.9
3478.0	80°	2636.7	1859.8	1247.9	1135.2	1111.0	1179.5	1557.8	1730.9	1537.7	1417.0
1135.2	82.5°	1038.6	966.1	1002.3	881.6	801.1	845.3	1211.7	1429.0	1131.2	1022.5
640.0	85°	595.8	628.0	708.5	583.7	462.9	519.3	889.6	1026.5	853.4	752.8
209.3	87.5°	161.0	221.4	326.1	301.9	209.3	221.4	422.7	567.6	491.1	378.4
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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180°
8497.7
8715.1
9061.3
9479.9
9866.4
10003.2
10007.3
9830.2
9415.5
8827.8
8211.9
7648.4
7149.2
6525.3
5824.8
5128.4
4504.5
3981.2
3461.9
3168.0
2982.9
2854.0
2765.5
2668.9
2503.8
2367.0
2310.6
2306.6
2270.4
2459.6
2439.4
1722.9
1328.4
1018.4
768.9
390.5
0.0

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