

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: P955399

Luminaire Tested: **GALN-SB8B-840-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955399
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8B-840-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43290 lumens
Efficiency: N/A
Efficacy: 147.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

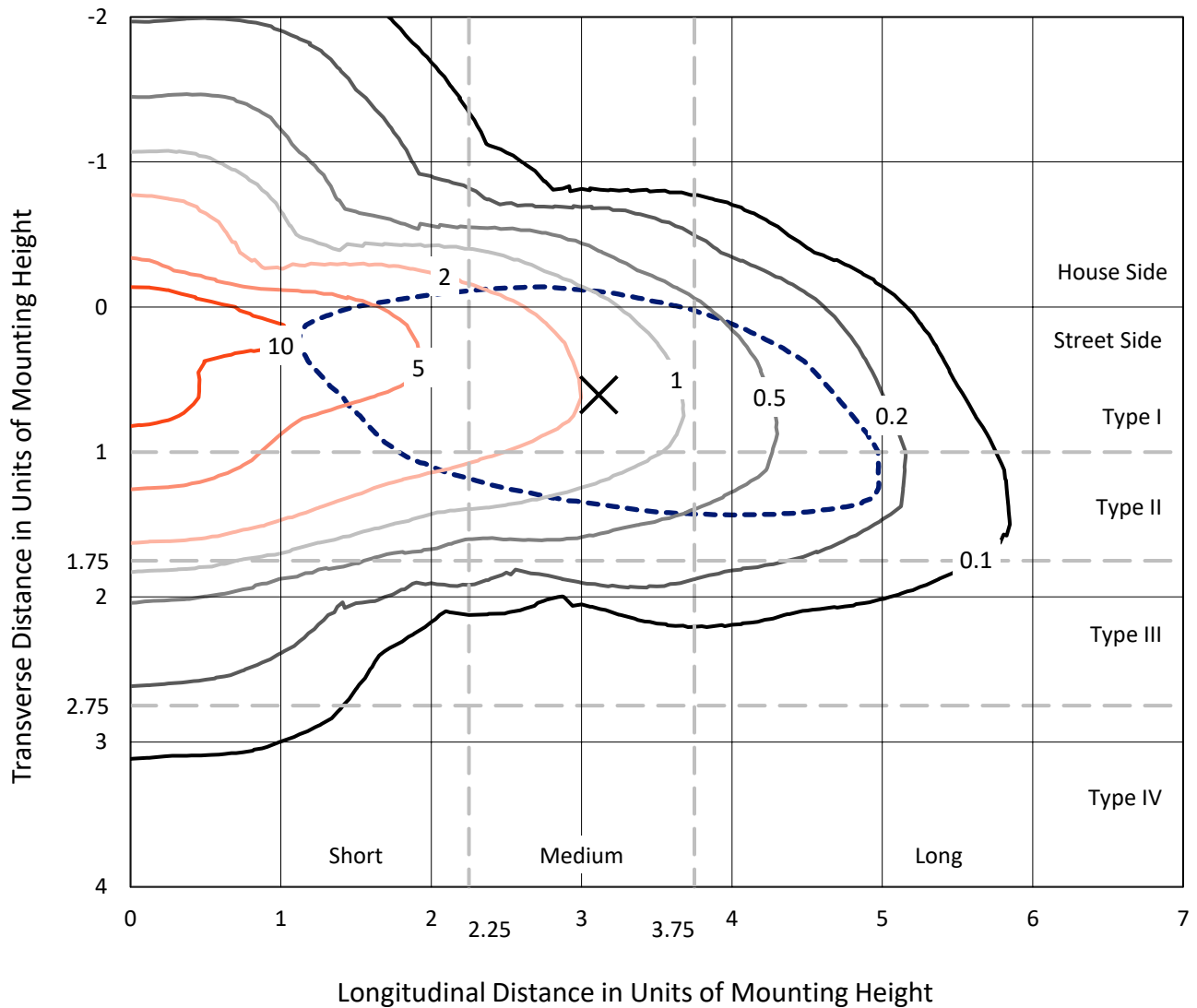
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

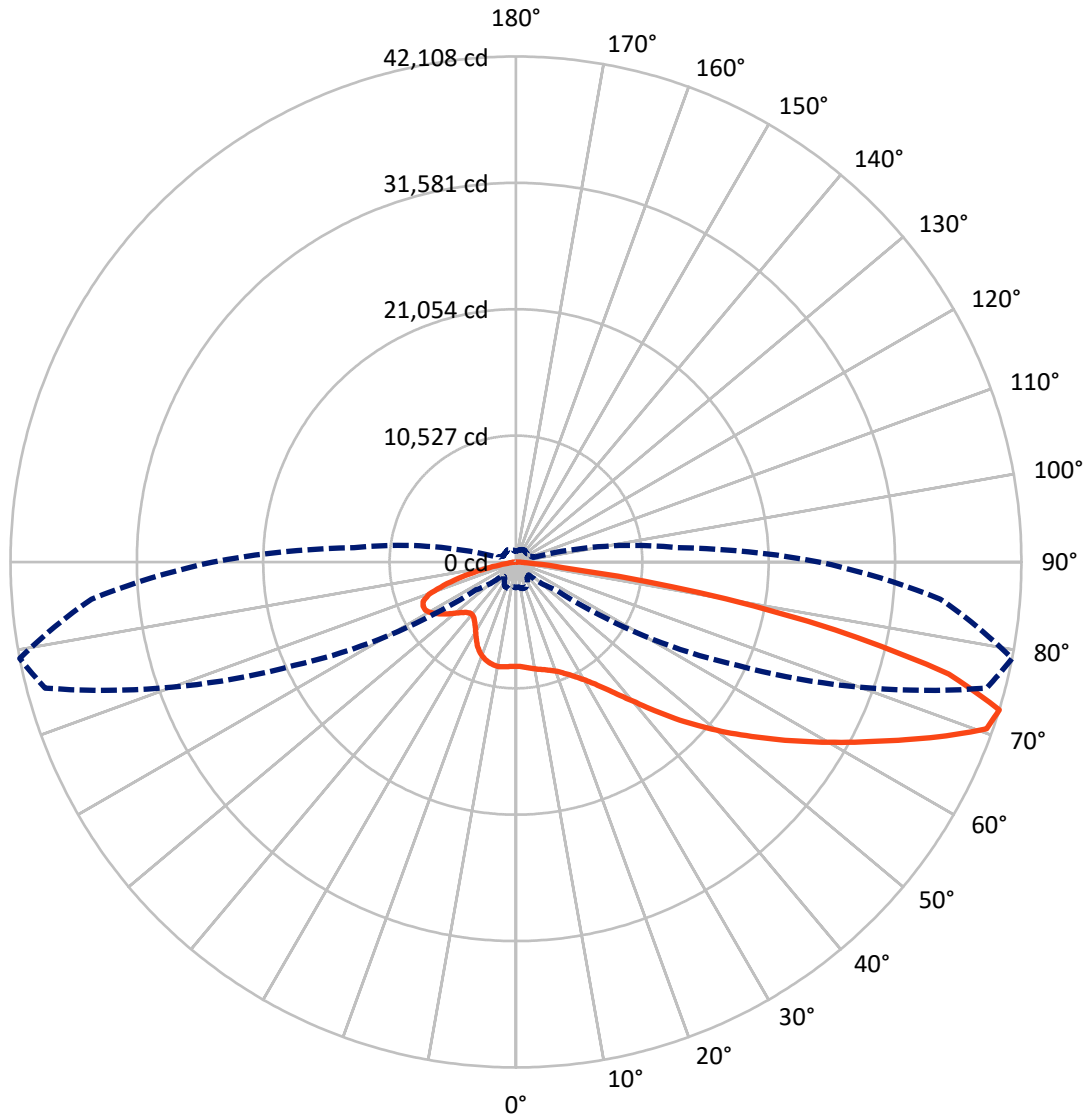
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9526.2	0.0	9526.2
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	33763.8	0.0	33763.8
	% Fixture	78.0	0.0	78.0
Total	Lumens	43290.0	0.0	43290.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	788.8	1.8
10°-20°	2062.3	4.8
20°-30°	3327.8	7.7
30°-40°	4994.5	11.5
40°-50°	7085.0	16.4
50°-60°	8947.4	20.7
60°-70°	9087.3	21.0
70°-80°	6193.4	14.3
80°-90°	803.5	1.9
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°	43290.0	100.0
0°-180°	43290.0	100.0

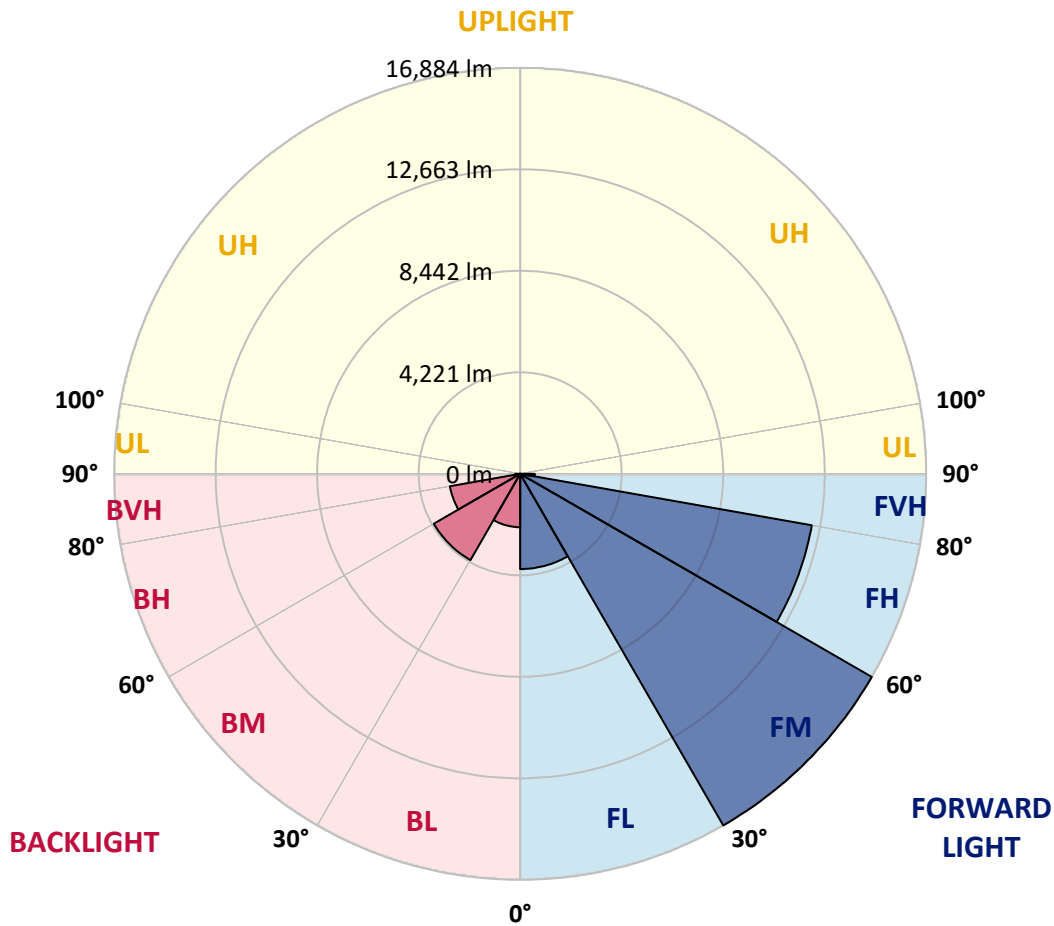


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3960.0	9.1			
FM (30°-60°)	16884.0	39.0			
FH (60°-80°)	12314.5	28.4			G5
FVH (80°-90°)	605.3	1.4			G4/750
BL (0°-30°)	2218.9	5.1	B3/2500		
BM (30°-60°)	4142.9	9.6	B3/5000		
BH (60°-80°)	2966.1	6.9	B4/5000		G4/5000
BVH (80°-90°)	198.2	0.5			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	8690.1	8690.1	8690.1	8690.1	8690.1	8690.1	8690.1	8690.1	8690.1	8690.1
2.5°	8694.6	8653.4	8678.6	8669.4	8680.9	8694.6	8699.2	8706.1	8729.0	8726.7
5°	8676.3	8635.1	8669.4	8658.0	8687.8	8719.8	8747.3	8772.5	8809.1	8825.2
7.5°	8637.4	8609.9	8644.3	8678.6	8733.6	8781.7	8820.6	8877.8	8930.5	8939.7
10°	8410.7	8390.1	8470.2	8559.5	8710.7	8841.2	8925.9	8992.3	9049.6	9058.7
12.5°	8174.8	8149.6	8239.0	8360.3	8605.3	8841.2	9019.8	9106.8	9157.2	9187.0
15°	8135.9	8115.3	8165.7	8271.0	8474.8	8779.4	9083.9	9244.2	9287.7	9322.1
17.5°	8323.7	8284.7	8305.4	8342.0	8461.1	8722.1	9134.3	9399.9	9466.3	9503.0
20°	8758.8	8703.8	8671.7	8598.5	8577.9	8731.3	9129.7	9587.7	9674.7	9720.5
22.5°	9338.1	9301.5	9232.8	9047.3	8845.8	8843.5	9216.7	9828.1	9990.7	10034.2
25°	10038.8	9983.8	9896.8	9644.9	9257.9	9065.6	9363.3	10135.0	10407.5	10418.9
27.5°	10844.8	10762.4	10643.3	10311.3	9789.2	9413.7	9587.7	10487.6	10886.0	10881.5
30°	11694.4	11611.9	11486.0	11083.0	10425.8	9883.1	9899.1	10867.7	11453.9	11428.7
32.5°	12314.9	12253.1	12227.9	11916.5	11158.5	10437.2	10256.3	11289.1	12154.6	12131.7
35°	12791.2	12711.1	12740.8	12582.8	11957.7	11057.8	10693.7	11790.5	13006.5	13004.2
37.5°	13262.9	13191.9	13217.1	13111.8	12697.3	11845.5	11227.2	12404.2	14062.1	14112.5
40°	13693.4	13617.9	13718.6	13620.1	13272.1	12683.6	11834.0	13098.1	15284.9	15381.1
42.5°	13952.2	13892.6	14059.8	14062.1	13771.3	13391.2	12500.4	13862.9	16700.0	16915.3
45°	14041.5	14020.9	14272.8	14325.4	14213.2	13801.0	13100.3	14696.4	18225.1	18609.8
47.5°	13945.3	13906.4	14254.4	14449.1	14538.4	13993.4	13597.2	15598.6	19782.2	20345.5
50°	13459.9	13384.3	13901.8	14311.7	14630.0	14119.3	14098.7	16640.5	21552.3	22168.2
52.5°	12587.4	12530.2	13118.7	13830.8	14428.5	14181.2	14662.0	17778.5	23233.0	24029.9
55°	11472.2	11396.7	12044.7	12974.4	13927.0	14160.6	15225.3	19051.7	25216.0	26024.4
57.5°	9704.5	9553.3	10373.1	11472.2	13109.5	14135.4	15811.6	20318.0	27231.1	28199.7
60°	7126.1	6901.7	7906.9	9209.9	11511.2	13890.4	16537.4	21737.7	29649.2	30521.7
62.5°	4149.2	4018.7	4675.9	5891.8	8676.3	12447.7	16945.0	23388.7	32026.1	32942.1
65°	3221.8	3185.2	3242.5	3336.3	4829.3	9319.8	15687.9	24998.5	35048.7	35689.9
67.5°	2947.1	2919.6	2944.8	2768.5	2450.2	5191.1	12411.1	25406.1	38286.6	38675.9
70°	2619.6	2587.6	2670.0	2518.9	1928.1	2360.9	8019.1	23926.8	40862.7	41593.2
72.5°	2134.2	2097.5	2289.9	2221.2	1623.5	1515.9	4027.9	20411.9	40592.5	42108.4
75°	1639.5	1618.9	1847.9	1905.2	1323.5	1193.0	1932.7	15172.7	35722.0	37249.3
77.5°	1273.2	1257.1	1373.9	1582.3	1067.1	925.1	1188.4	9624.3	26919.7	27187.6
80°	954.9	909.1	1016.7	1225.1	831.2	675.5	806.0	5612.5	17016.0	15424.6
82.5°	597.7	574.8	664.1	817.5	586.2	464.8	524.4	3100.5	6819.2	4016.4
85°	341.2	332.0	361.8	467.1	318.3	267.9	300.0	1369.3	1245.7	856.4
87.5°	137.4	132.8	164.9	208.4	116.8	98.5	105.3	329.7	274.8	254.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P955399
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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
8690.1	0°	8690.1	8690.1	8690.1	8690.1	8690.1	8690.1	8690.1	8690.1	8690.1	8690.1
8724.4	2.5°	8715.2	8715.2	8683.2	8632.8	8575.6	8538.9	8479.4	8463.4	8401.5	8383.2
8802.3	5°	8820.6	8802.3	8703.8	8561.8	8367.2	8188.6	7991.6	7868.0	7694.0	7632.1
8955.7	7.5°	8953.4	8903.0	8733.6	8422.1	8014.5	7613.8	7197.1	6881.1	6578.8	6471.2
9081.6	10°	9074.8	9003.8	8715.2	8170.3	7465.0	6771.1	6107.1	5642.2	5289.6	5145.3
9221.3	12.5°	9196.1	9065.6	8593.9	7751.2	6684.1	5743.0	5035.4	4673.6	4456.1	4282.1
9335.8	15°	9310.6	9127.4	8406.1	7190.2	5827.7	4872.8	4350.8	4062.2	3888.2	3773.7
9503.0	17.5°	9443.4	9180.1	8124.5	6478.0	5012.5	4270.6	3844.7	3670.7	3636.3	3622.6
9731.9	20°	9628.9	9228.2	7753.5	5681.2	4412.6	3789.7	3569.9	3553.9	3551.6	3544.7
10006.7	22.5°	9828.1	9285.4	7263.5	4957.6	3901.9	3489.8	3450.8	3418.8	3398.2	3395.9
10338.8	25°	10064.0	9303.7	6649.8	4364.5	3466.9	3347.8	3302.0	3253.9	3240.2	3240.2
10716.6	27.5°	10293.0	9241.9	5935.3	3849.3	3221.8	3217.3	3157.7	3141.7	3139.4	3146.3
11147.1	30°	10522.0	9125.1	5225.5	3373.0	3079.9	3079.9	3059.3	3070.7	3079.9	3102.8
11737.9	32.5°	10831.1	9001.5	4632.4	3020.3	2956.2	2933.3	2953.9	2976.8	2986.0	3015.8
12514.1	35°	11284.5	8914.5	4160.7	2828.0	2828.0	2798.2	2809.7	2805.1	2784.5	2770.7
13453.0	37.5°	11884.4	8909.9	3771.4	2738.7	2720.4	2715.8	2718.1	2688.3	2608.2	2512.0
14588.8	40°	12605.7	9033.5	3471.4	2676.9	2663.1	2690.6	2676.9	2596.7	2376.9	2209.7
15985.6	42.5°	13574.3	9386.2	3279.1	2601.3	2642.5	2676.9	2621.9	2344.8	2196.0	2083.8
17577.0	45°	14714.7	9958.6	3180.6	2521.1	2603.6	2644.8	2379.2	2257.8	2138.7	2003.6
19312.8	47.5°	16006.2	10680.0	3157.7	2445.6	2516.6	2541.8	2276.1	2221.2	2086.1	1939.5
21057.6	50°	17412.2	11534.1	3219.6	2356.3	2390.6	2303.6	2241.8	2191.4	2051.7	1907.5
22846.0	52.5°	18866.2	12475.2	3343.2	2234.9	2264.7	2168.5	2228.0	2184.5	2031.1	1836.5
24694.0	55°	20295.1	13423.2	3462.3	2092.9	2136.4	2047.1	2189.1	2157.1	1937.2	1717.4
26665.5	57.5°	21746.9	14366.6	3579.1	1967.0	2012.8	1930.4	2127.3	2083.8	1831.9	1607.5
28818.0	60°	23255.9	15282.6	3634.0	1845.6	1877.7	1822.7	2033.4	1957.8	1712.8	1495.3
30933.9	62.5°	24668.8	16045.1	3544.7	1724.3	1744.9	1722.0	1909.8	1809.0	1593.7	1369.3
33139.0	65°	26086.2	16498.5	3269.9	1605.2	1609.8	1598.3	1735.7	1648.7	1454.1	1259.4
35069.4	67.5°	27370.8	16752.7	2832.6	1477.0	1465.5	1460.9	1573.1	1474.7	1319.0	1149.5
36537.2	70°	27643.3	16106.9	2163.9	1325.8	1325.8	1314.4	1394.5	1293.8	1170.1	1032.7
35486.1	72.5°	25248.1	13549.2	1536.5	1154.1	1172.4	1149.5	1215.9	1131.2	1019.0	927.4
30583.5	75°	20359.2	9935.7	1117.5	977.8	1009.8	970.9	1032.7	973.2	877.0	874.7
21076.0	77.5°	13988.8	6143.7	810.6	806.0	828.9	778.6	849.5	817.5	730.5	691.5
9173.2	80°	5969.7	2450.2	590.8	622.8	622.8	577.0	659.5	668.6	593.1	574.8
1770.1	82.5°	1188.4	696.1	414.5	428.2	403.0	389.3	467.1	517.5	714.4	794.6
533.5	85°	357.2	256.5	249.6	233.6	206.1	208.4	274.8	519.8	641.2	366.4
176.3	87.5°	98.5	64.1	66.4	52.7	43.5	57.2	93.9	393.9	215.2	91.6
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>
8690.1
8413.0
7677.9
6484.9
5177.4
4339.3
3794.3
3631.7
3567.6
3421.1
3253.9
3164.6
3118.8
3040.9
2802.8
2514.3
2205.1
2079.2
1994.5
1928.1
1891.4
1822.7
1706.0
1602.9
1488.4
1367.1
1245.7
1135.8
1028.2
899.9
787.7
648.0
574.8
796.9
316.0
77.9
0.0

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