

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: P944062

Luminaire Tested: **GALN-SB8D-830-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944062
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB8D-830-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 73292 lumens
Efficiency: N/A
Efficacy: 125.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B5 - U0 - G5

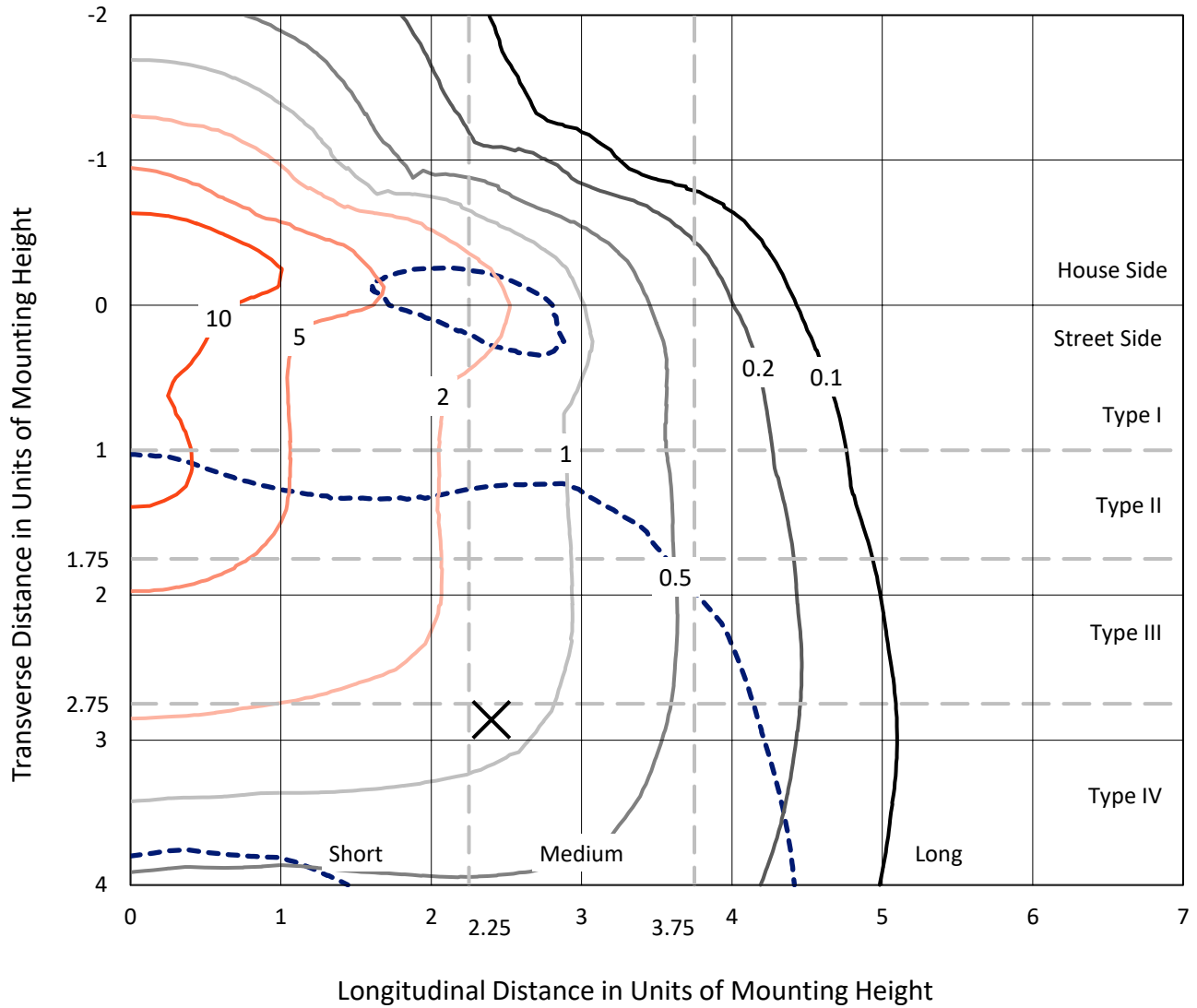
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

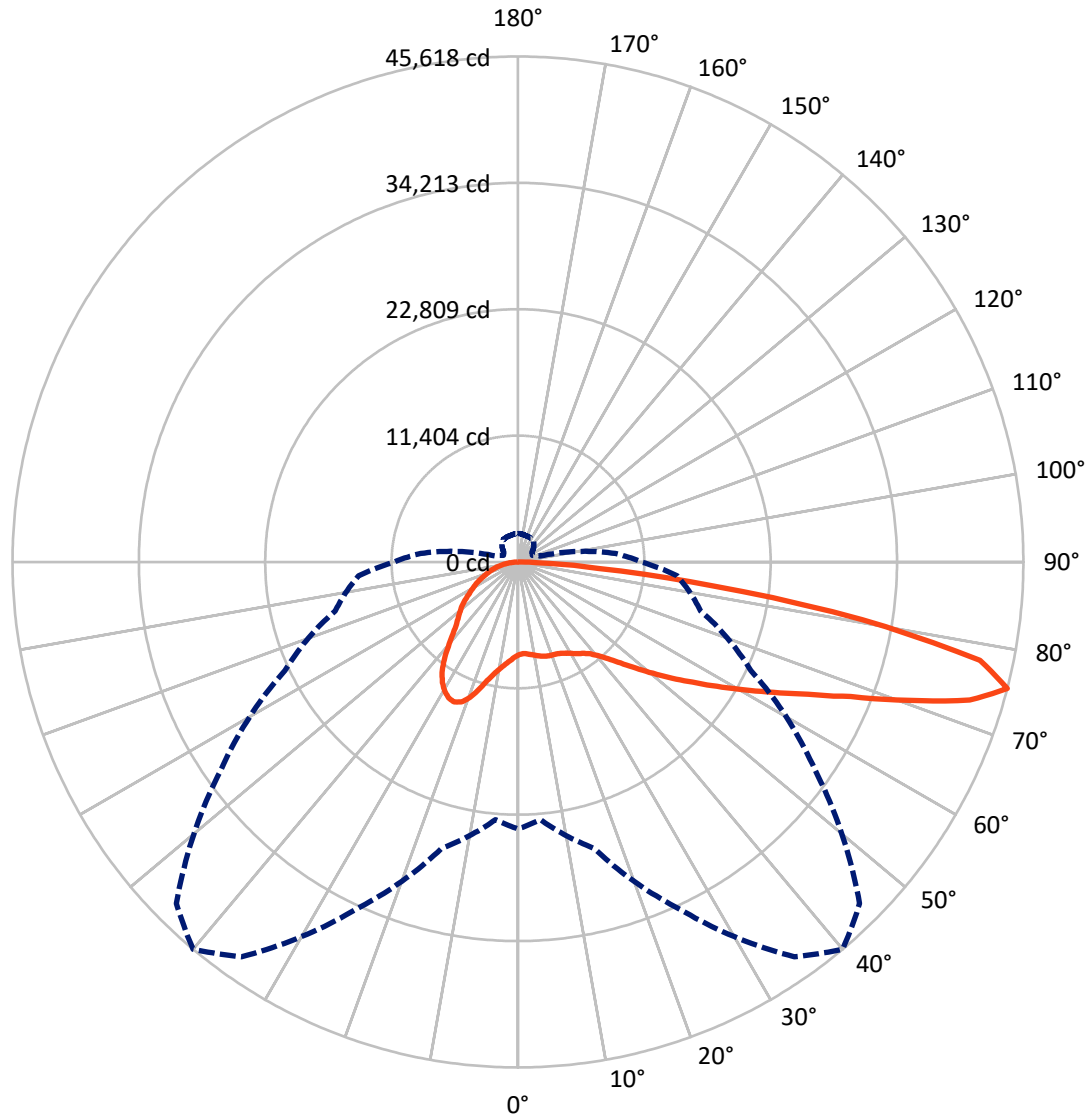
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22708.3	0.0	22708.3
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	50583.7	0.0	50583.7
	% Fixture	69.0	0.0	69.0
Total	Lumens	73292.0	0.0	73292.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	836.6	1.1
10°-20°	2808.8	3.8
20°-30°	5128.7	7.0
30°-40°	7273.8	9.9
40°-50°	9821.9	13.4
50°-60°	13213.0	18.0
60°-70°	16770.4	22.9
70°-80°	15220.2	20.8
80°-90°	2218.6	3.0
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°	73292.0	100.0
0°-180°	73292.0	100.0

Coefficient of Utilization



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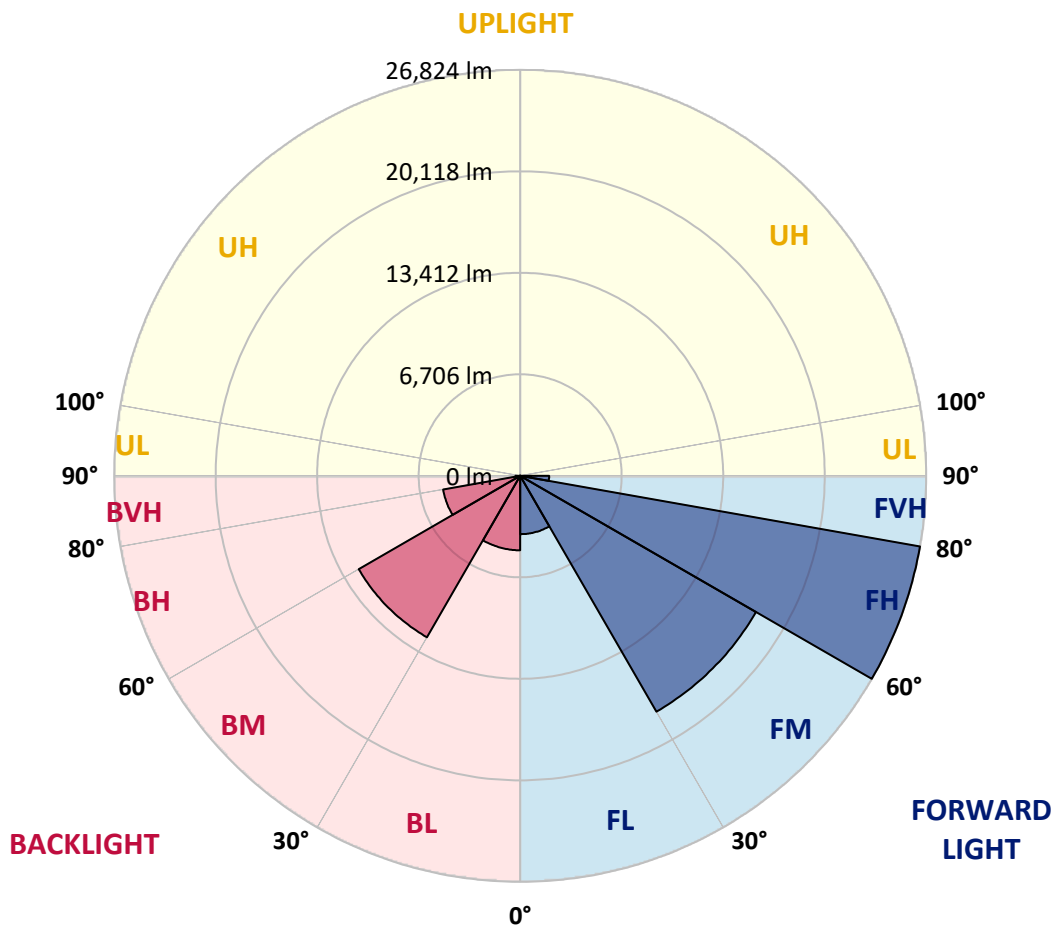
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3855.2	5.3			
FM (30°-60°)	17991.5	24.5			
FH (60°-80°)	26823.8	36.6			G5
FVH (80°-90°)	1913.2	2.6			G5
BL (0°-30°)	4918.8	6.7	B4/5000		
BM (30°-60°)	12317.2	16.8	B5		
BH (60°-80°)	5166.8	7.0	B5		G5
BVH (80°-90°)	305.5	0.4			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 IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	8381.0	8381.0	8381.0	8381.0	8381.0	8381.0	8381.0	8381.0	8381.0	8381.0
2.5°	8252.8	8299.4	8287.7	8272.2	8272.2	8276.1	8272.2	8299.4	8326.6	8353.8
5°	8338.3	8384.9	8361.6	8342.2	8326.6	8322.7	8311.1	8307.2	8322.7	8357.7
7.5°	8505.4	8552.1	8517.1	8482.1	8451.0	8435.5	8419.9	8396.6	8384.9	8404.4
10°	8692.0	8738.7	8695.9	8633.7	8583.2	8563.7	8548.2	8524.9	8509.3	8521.0
12.5°	8878.6	8925.3	8867.0	8781.4	8715.3	8703.7	8684.2	8676.5	8672.6	8668.7
15°	9053.5	9092.4	9018.6	8917.5	8847.5	8828.1	8808.6	8820.3	8839.7	8863.1
17.5°	9189.6	9228.5	9119.6	8987.5	8921.4	8913.6	8901.9	8940.8	8995.2	9053.5
20°	9314.0	9352.9	9212.9	9034.1	8956.4	8956.4	8960.2	9041.9	9119.6	9205.1
22.5°	9488.9	9520.0	9349.0	9104.1	8991.3	8999.1	9030.2	9111.9	9209.0	9325.7
25°	9749.4	9772.7	9562.8	9236.2	9108.0	9131.3	9158.5	9197.4	9290.7	9426.7
27.5°	10169.2	10188.6	9912.6	9469.5	9275.1	9314.0	9352.9	9325.7	9368.4	9485.0
30°	10760.1	10771.7	10421.9	9834.9	9558.9	9578.3	9586.1	9473.4	9391.7	9485.0
32.5°	11459.8	11455.9	11040.0	10278.0	9881.5	9862.1	9796.0	9574.4	9384.0	9465.6
35°	12544.3	12501.6	11965.1	10900.0	10246.9	10126.4	9970.9	9687.2	9422.8	9446.2
37.5°	14340.3	14208.1	13465.6	11918.5	10791.2	10484.1	10254.7	9869.9	9508.4	9438.4
40°	16365.6	16198.4	15382.1	13314.0	11607.5	11113.8	10744.5	10130.3	9648.3	9473.4
42.5°	18767.9	18530.8	17652.3	14958.4	12641.5	11926.3	11370.4	10460.7	9854.3	9586.1
45°	21718.4	21403.5	20159.6	16812.6	13943.8	12991.4	12248.9	10962.2	10169.2	9803.8
47.5°	24700.0	24777.7	23009.0	18935.1	15506.5	14305.3	13349.0	11716.3	10627.9	10153.7
50°	27868.1	27922.5	25842.8	21286.9	17279.1	15790.2	14585.2	12559.9	11265.4	10651.2
52.5°	30340.4	30348.2	28416.2	23747.6	19125.6	17422.9	15918.5	13523.9	12004.0	11312.1
55°	31887.6	31868.2	30219.9	26076.1	21248.0	19137.2	17395.7	14620.2	12905.9	12089.5
57.5°	33011.0	32952.7	31463.9	28078.0	23510.4	21162.5	19067.2	15864.1	13971.0	13014.7
60°	33438.6	33403.6	32307.4	29807.9	25889.5	23401.6	20995.4	17255.8	15179.9	14107.0
62.5°	33601.9	33668.0	33135.4	31483.3	28435.7	25881.7	23113.9	18919.5	16540.5	15343.2
65°	34177.2	34297.7	34188.9	33675.8	31312.3	28785.5	25924.5	20898.2	18025.5	16668.8
67.5°	35316.2	35436.7	35483.4	36299.7	34826.4	32404.6	29430.8	23362.7	19763.1	18044.9
70°	35289.0	35254.0	36078.1	38387.2	39226.8	37415.3	34157.8	26394.8	21835.0	19187.8
72.5°	32120.8	31840.9	33788.5	38363.9	42888.7	42647.7	39930.4	30305.5	23623.2	19327.7
75°	24097.4	23351.1	26791.3	34573.7	43499.0	45617.6	43600.1	32731.1	23199.5	17076.9
77.5°	10305.3	9555.0	13609.5	25594.0	38931.4	42643.8	40233.6	28556.2	18519.1	11292.6
80°	2697.8	2693.9	4112.8	11603.6	26476.5	31491.1	27627.1	18441.4	10581.3	4035.0
82.5°	1115.7	1088.4	1512.2	4513.2	12937.0	17671.7	14421.9	8225.5	3821.2	1092.3
85°	415.9	412.1	734.7	1558.8	4563.7	7288.7	5275.1	2103.0	952.4	532.6
87.5°	116.6	112.7	159.4	540.3	1111.8	1687.1	901.9	346.0	268.2	209.9
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°
8381.0	0°	8381.0	8381.0	8381.0	8381.0	8381.0	8381.0	8381.0	8381.0	8381.0	8381.0
8396.6	2.5°	8408.2	8427.7	8462.7	8489.9	8524.9	8563.7	8618.2	8653.1	8688.1	8711.5
8416.0	5°	8443.2	8486.0	8575.4	8664.8	8769.8	8867.0	8979.7	9061.3	9127.4	9146.8
8486.0	7.5°	8521.0	8591.0	8742.6	8894.2	9061.3	9220.7	9384.0	9523.9	9636.6	9679.4
8610.4	10°	8657.0	8750.3	8964.1	9177.9	9399.5	9644.4	9854.3	10056.5	10215.8	10281.9
8758.1	12.5°	8828.1	8944.7	9224.6	9520.0	9827.1	10165.3	10437.4	10686.2	10884.5	10973.9
8964.1	15°	9049.7	9201.3	9558.9	9955.4	10406.3	10876.7	11222.7	11498.7	11720.2	11829.1
9177.9	17.5°	9290.7	9492.8	9943.7	10542.4	11187.7	11805.8	12210.0	12412.2	12641.5	12746.5
9376.2	20°	9523.9	9772.7	10418.0	11288.7	12147.8	12804.8	13131.3	13185.8	13201.3	13213.0
9562.8	22.5°	9764.9	10099.2	11012.7	12229.5	13150.8	13605.6	13652.2	13419.0	13092.5	12940.9
9745.5	25°	10029.3	10472.4	11790.2	13267.4	14013.7	14068.2	13710.5	13143.0	12524.9	12241.1
9893.2	27.5°	10285.8	10903.9	12723.2	14258.6	14635.7	14157.6	13387.9	12583.2	11836.9	11537.5
9998.2	30°	10542.4	11397.6	13753.3	15125.5	14919.5	13936.0	12878.7	11980.7	11230.4	10915.6
10091.5	32.5°	10802.8	11972.9	14938.9	15751.4	14869.0	13465.6	12245.0	11304.3	10643.5	10313.0
10173.1	35°	11098.3	12680.4	16062.4	16093.5	14530.8	12773.7	11409.3	10495.7	9920.4	9656.1
10270.3	37.5°	11483.1	13578.4	17053.6	16179.0	13939.9	11759.1	10371.3	9539.5	9065.2	8944.7
10414.1	40°	11961.2	14659.0	17811.6	16042.9	13065.2	10526.8	9236.2	8571.5	8303.3	8330.5
10608.5	42.5°	12583.2	15868.0	18344.2	15693.1	11848.5	9255.7	8241.1	7945.7	8073.9	8182.8
10900.0	45°	13391.8	17123.6	18674.6	15098.3	10472.4	8178.9	7654.1	7724.1	7821.3	7832.9
11370.4	47.5°	14425.8	18394.7	18892.3	14200.3	9069.1	7420.9	7280.9	7296.5	7277.0	7195.4
12074.0	50°	15716.4	19630.9	19086.7	13010.8	7875.7	6946.6	6760.0	6705.6	6437.4	6173.0
13010.8	52.5°	17185.8	20766.0	19168.3	11533.6	6946.6	6550.1	6246.9	5904.8	5403.4	5321.7
14188.7	55°	18818.5	21815.6	18958.4	9718.3	6165.3	6040.9	5582.2	5170.1	5115.7	5045.7
15739.7	57.5°	20769.9	22946.8	18530.8	7693.0	5364.5	5446.1	4999.1	5045.7	4948.5	4839.7
17733.9	60°	22904.0	24116.9	17780.6	5846.5	4536.5	4703.6	4847.5	4843.6	4816.4	4727.0
19836.9	62.5°	24824.4	24886.6	16303.4	4478.2	3809.6	4128.3	4520.9	4517.1	4493.7	4443.2
22033.3	65°	25967.2	24769.9	13838.8	3525.8	3210.9	3654.1	4077.8	4108.9	4112.8	4108.9
23685.4	67.5°	25765.1	23405.5	10456.9	2806.6	2717.2	3172.0	3638.5	3681.3	3712.4	3720.2
23895.3	70°	23479.3	20408.4	6818.3	2239.1	2278.0	2748.3	3222.6	3265.3	3292.6	3323.6
20734.9	72.5°	18301.5	15005.0	3902.9	1811.5	1893.1	2382.9	2810.5	2861.1	2876.6	2934.9
14429.7	75°	11152.7	8824.2	2106.9	1426.6	1554.9	2036.9	2402.4	2460.7	2487.9	2557.8
7086.6	77.5°	5302.3	3821.2	1201.2	1111.8	1251.7	1663.8	2029.2	2095.3	2021.4	2060.3
1955.3	80°	1792.0	1418.9	758.0	847.4	956.3	1298.4	1624.9	1691.0	1535.5	1527.7
649.2	82.5°	625.9	575.3	482.0	563.7	618.1	929.1	1228.4	1313.9	1142.9	1139.0
291.5	85°	244.9	233.2	268.2	307.1	369.3	571.4	808.6	851.3	703.6	567.5
85.5	87.5°	50.5	54.4	66.1	70.0	112.7	198.3	291.5	357.6	283.8	241.0
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>
8381.0
8695.9
9154.6
9683.3
10285.8
10973.9
11821.3
12742.6
13244.1
12983.6
12283.9
11572.5
10950.5
10355.8
9714.4
9030.2
8423.8
8283.9
7910.7
7257.6
6208.0
5348.9
5057.4
4820.3
4695.9
4423.8
4108.9
3727.9
3339.2
2958.2
2565.6
2029.2
1512.2
1084.6
559.8
221.6
0.0

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