

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: P956080

Luminaire Tested: **GALN-SB8D-830-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956080
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
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-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56506 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G5

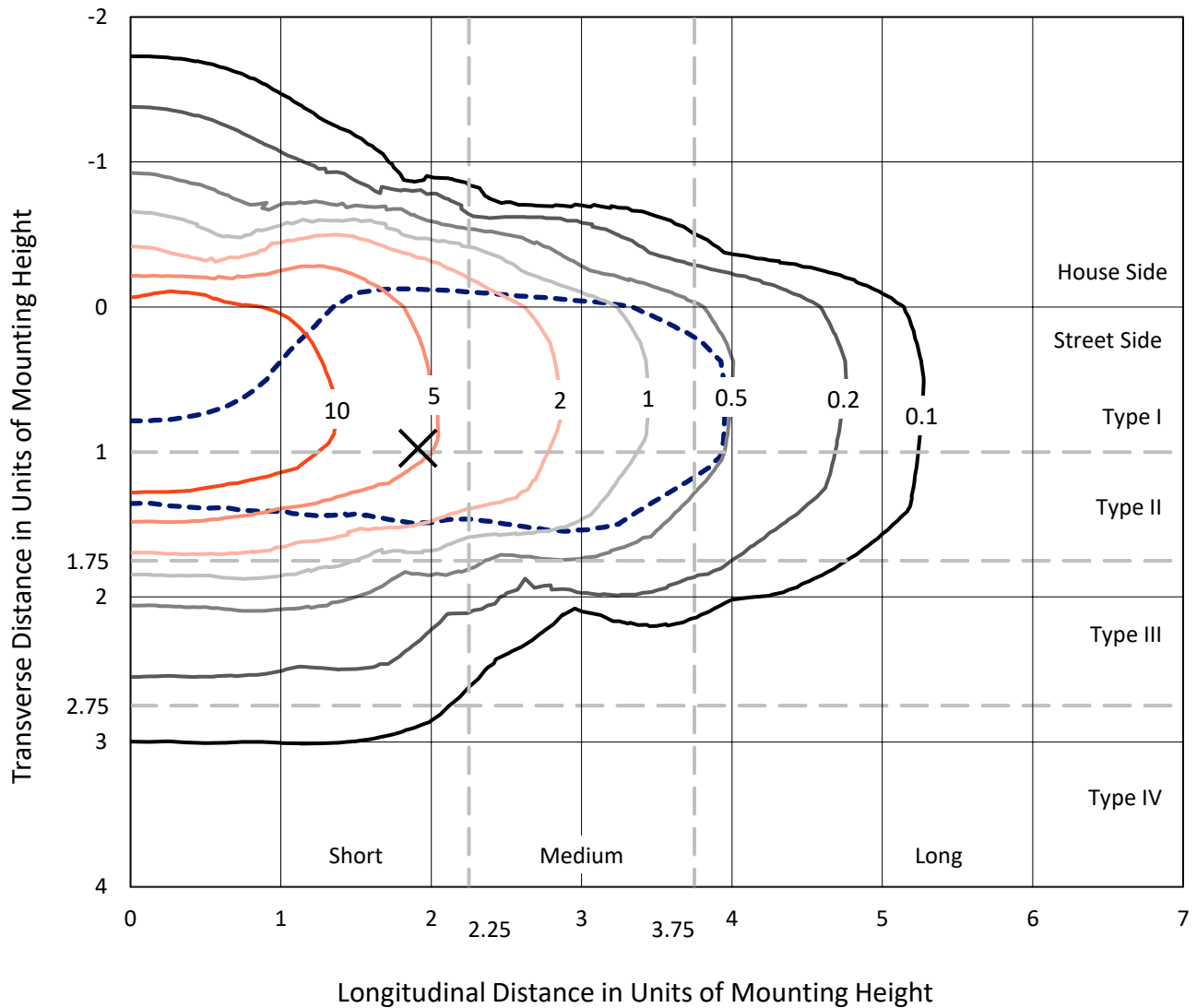
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

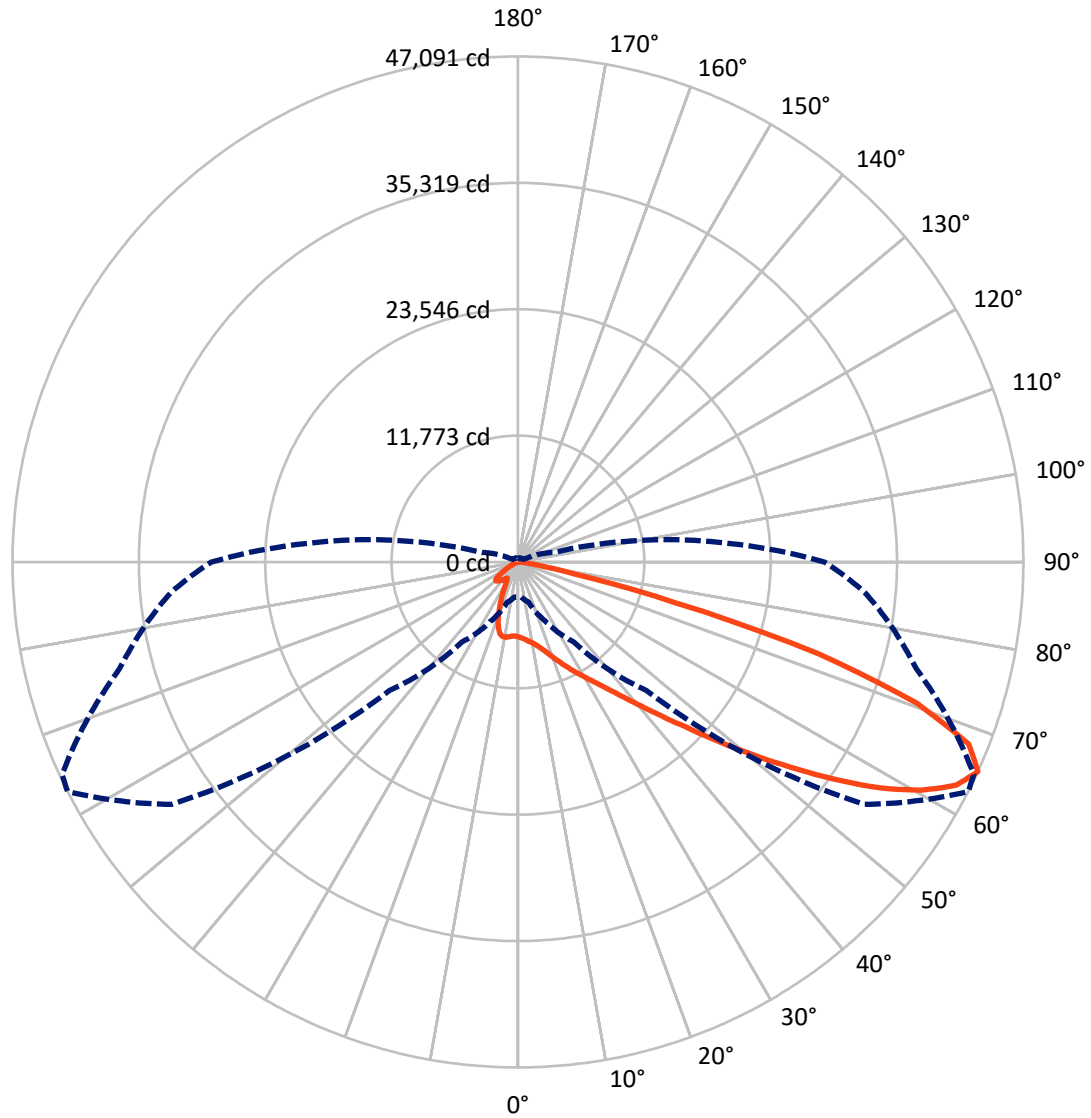
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8305.9	0.0	8305.9
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	48200.1	0.0	48200.1
	% Fixture	85.3	0.0	85.3
Total	Lumens	56506.0	0.0	56506.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	657.1	1.2
10°-20°	1823.1	3.2
20°-30°	3174.5	5.6
30°-40°	5721.8	10.1
40°-50°	11348.1	20.1
50°-60°	15458.0	27.4
60°-70°	12338.5	21.8
70°-80°	5583.5	9.9
80°-90°	401.3	0.7
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°	56506.0	100.0
0°-180°	56506.0	100.0

Coefficient of Utilization



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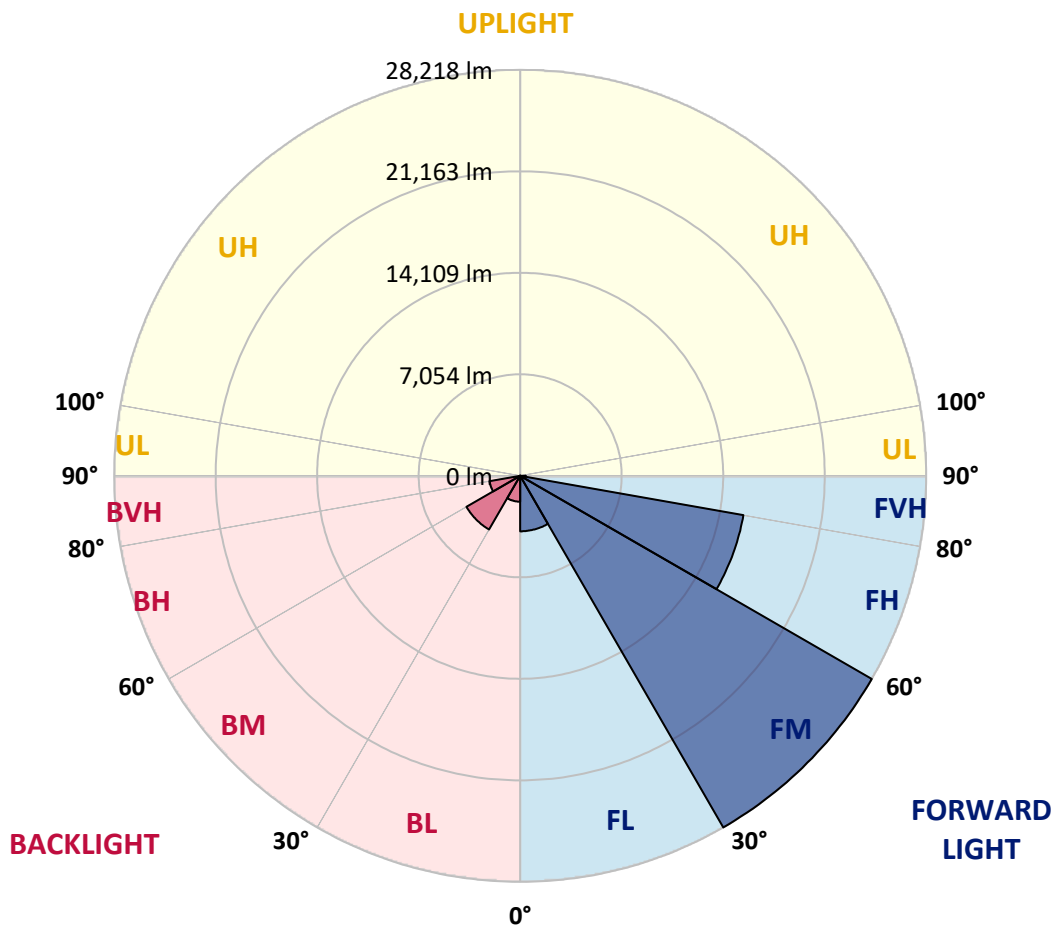
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3857.2	6.8			
FM (30°-60°)	28217.7	49.9			
FH (60°-80°)	15753.6	27.9			G5
FVH (80°-90°)	371.6	0.7			G3/500
BL (0°-30°)	1797.5	3.2	B3/2500		
BM (30°-60°)	4310.3	7.6	B3/5000		
BH (60°-80°)	2168.3	3.8	B3/2500		G3/2500
BVH (80°-90°)	29.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	6973.9	6973.9	6973.9	6973.9	6973.9	6973.9	6973.9	6973.9	6973.9	6973.9
2.5°	7137.2	7117.7	7145.0	7133.3	7125.5	7110.0	7102.2	7094.4	7078.9	7067.2
5°	7156.6	7145.0	7172.2	7195.5	7218.8	7242.1	7253.8	7269.3	7253.8	7222.7
7.5°	6993.3	6985.6	7043.9	7113.9	7218.8	7308.2	7405.4	7459.8	7463.7	7452.1
10°	6981.7	6962.2	7020.6	7106.1	7242.1	7401.5	7572.6	7689.2	7704.7	7755.3
12.5°	7164.4	7145.0	7226.6	7319.9	7459.8	7627.0	7836.9	8000.2	8023.5	8093.5
15°	7471.5	7444.3	7537.6	7658.1	7836.9	8027.4	8249.0	8396.7	8416.1	8501.6
17.5°	7829.1	7801.9	7910.8	8039.0	8233.4	8493.9	8750.4	8913.7	8937.0	8991.4
20°	8287.8	8252.8	8338.4	8455.0	8661.0	8972.0	9279.1	9512.3	9508.5	9508.5
22.5°	8820.4	8766.0	8839.8	8933.1	9127.5	9504.6	9912.7	10188.7	10188.7	10079.9
25°	9391.8	9337.4	9419.1	9504.6	9675.6	10103.2	10581.4	10923.5	10939.0	10752.4
27.5°	10107.1	10037.1	10099.3	10200.4	10301.5	10736.9	11304.4	11700.9	11708.7	11421.0
30°	11483.2	11285.0	11090.6	10981.8	11028.4	11459.9	12066.3	12505.6	12544.5	12148.0
32.5°	14002.2	13963.4	13279.2	12385.1	11918.6	12237.4	12917.7	13446.3	13469.7	12960.4
35°	17916.8	17870.2	16770.0	15067.4	13547.4	13279.2	13951.7	14577.6	14562.0	13986.7
37.5°	22589.4	22546.6	21096.7	18818.7	16358.0	14853.6	15285.1	15942.0	16039.2	15285.1
40°	26581.7	26422.3	25504.9	23308.6	20089.8	17465.9	17182.1	17617.5	17718.5	16824.5
42.5°	29606.1	29470.0	29003.5	27631.3	24606.9	21329.9	19417.3	19584.5	19697.2	18624.3
45°	31172.7	31141.6	31328.2	31199.9	29209.6	26072.5	22612.7	21916.9	21959.6	20618.5
47.5°	31394.2	31378.7	32230.0	33435.1	33166.9	31421.5	26713.9	24824.6	24673.0	22869.3
50°	30088.1	30057.0	31689.7	33948.2	35810.3	35915.2	31370.9	28101.7	27767.3	25197.8
52.5°	25917.0	25909.2	28591.5	32350.5	36739.4	39849.2	35973.5	31701.3	31141.6	27662.4
55°	19942.1	20085.9	23160.8	27604.1	35044.5	41742.4	40105.8	35697.5	34838.4	30142.5
57.5°	14126.6	14336.6	17376.5	21333.8	29788.8	40622.8	42900.8	39701.5	38776.3	32614.9
60°	7588.1	7774.7	10818.5	15541.6	22161.8	36447.8	44374.1	43176.8	42302.2	34962.8
62.5°	4521.0	4583.2	5842.7	10033.3	14989.6	27845.1	43748.3	45824.1	45104.9	36933.7
65°	3245.9	3257.6	3891.2	6126.5	9100.3	16917.8	39359.4	47091.4	46869.8	38418.7
67.5°	2732.8	2725.0	2989.4	4070.1	6200.3	8474.4	30165.8	45299.3	46240.0	39359.4
70°	2344.1	2355.7	2666.7	2981.6	4660.9	4797.0	14997.4	39441.1	41446.9	39608.2
72.5°	1745.4	1784.3	2072.0	2717.3	3518.1	3300.4	5178.0	29244.5	32871.4	37318.6
75°	1232.3	1251.7	1457.8	2285.8	2624.0	2402.4	2643.4	15117.9	19767.2	28610.9
77.5°	948.5	983.5	1104.0	1597.7	2585.1	1687.1	1617.1	5232.4	8039.0	17283.2
80°	513.1	575.3	796.9	1154.5	1815.4	1193.4	800.8	2083.6	2725.0	8081.8
82.5°	264.3	295.4	555.9	831.9	1034.0	1041.8	396.5	866.9	1123.4	2495.7
85°	105.0	128.3	373.2	458.7	532.6	513.1	178.8	349.9	404.3	691.9
87.5°	23.3	38.9	136.1	105.0	101.1	108.8	42.8	81.6	77.7	81.6
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°
6973.9	0°	6973.9	6973.9	6973.9	6973.9	6973.9	6973.9	6973.9	6973.9	6973.9	6973.9
7020.6	2.5°	7016.7	7001.1	6958.4	6911.7	6857.3	6826.2	6806.8	6802.9	6775.7	6756.2
7176.1	5°	7133.3	7117.7	7036.1	6938.9	6834.0	6752.3	6674.6	6604.6	6503.5	6484.1
7401.5	7.5°	7366.5	7323.8	7191.6	7059.4	6861.2	6624.0	6336.4	6006.0	5710.5	5621.1
7700.8	10°	7654.2	7595.9	7428.7	7195.5	6756.2	6110.9	5415.1	4769.8	4256.6	4112.8
8054.6	12.5°	7980.7	7930.2	7708.6	7277.1	6316.9	5146.9	4081.7	3280.9	2783.3	2658.9
8431.7	15°	8369.5	8295.6	7988.5	7152.7	5531.7	3910.7	2802.8	2328.5	2149.7	2126.4
8863.2	17.5°	8781.5	8661.0	8237.3	6705.7	4474.3	2779.5	2165.3	2029.2	1951.5	1928.1
9298.5	20°	9158.6	9003.1	8385.0	6029.3	3343.1	2165.3	1939.8	1850.4	1780.4	1753.2
9733.9	22.5°	9535.7	9314.1	8385.0	5108.0	2507.3	1920.4	1780.4	1698.8	1617.1	1582.2
10200.4	25°	9928.3	9632.9	8237.3	4081.7	2017.5	1761.0	1628.8	1539.4	1469.4	1426.7
10643.6	27.5°	10309.3	9901.1	7899.1	3109.9	1796.0	1621.0	1488.9	1403.3	1337.2	1306.2
11125.6	30°	10670.8	10165.4	7424.8	2359.6	1652.1	1485.0	1360.6	1286.7	1220.6	1189.5
11751.5	32.5°	11160.6	10499.7	6919.5	1935.9	1527.7	1356.7	1244.0	1174.0	1115.7	1092.3
12563.9	35°	11840.9	10993.4	6484.1	1900.9	1422.8	1251.7	1139.0	1072.9	1014.6	995.2
13613.5	37.5°	12804.9	11790.3	6254.7	2134.2	1337.2	1158.4	1053.5	983.5	929.1	913.5
14946.9	40°	13994.5	12871.0	6379.1	2367.4	1278.9	1076.8	975.7	905.8	859.1	839.7
16478.5	42.5°	15405.6	14204.4	7067.2	2546.2	1240.1	1006.8	901.9	824.1	793.0	785.2
18216.1	45°	17026.6	15669.9	8120.7	2736.7	1177.9	940.7	828.0	769.7	746.4	742.5
20105.4	47.5°	18869.2	17279.3	9341.3	2973.8	1115.7	878.5	769.7	730.8	711.4	703.6
22076.3	50°	20696.3	18900.3	10596.9	3106.0	1065.1	820.2	723.0	691.9	676.4	672.5
24159.9	52.5°	22608.8	20568.0	11611.5	2981.6	1022.4	773.6	684.2	660.8	645.3	641.4
26080.2	55°	24432.0	21916.9	11786.4	2530.7	936.9	726.9	641.4	629.8	610.3	610.3
28027.8	57.5°	26002.5	22593.3	10550.3	1858.2	851.3	657.0	598.7	587.0	571.4	567.6
29784.9	60°	27444.7	22398.9	8144.0	1251.7	758.0	587.0	544.2	536.5	520.9	501.5
31312.6	62.5°	28257.2	21543.7	5570.6	816.3	664.7	513.1	482.0	478.1	443.2	404.3
32443.8	65°	28564.3	19786.6	3475.3	594.8	555.9	439.3	415.9	408.2	357.6	314.9
33085.2	67.5°	28296.0	16894.4	1753.2	470.4	439.3	365.4	342.1	342.1	307.1	268.2
33046.4	70°	27223.1	12665.0	738.6	377.1	338.2	279.9	279.9	295.4	260.5	217.7
31332.1	72.5°	24894.6	8521.1	392.6	287.7	252.7	198.3	229.4	241.0	206.0	163.3
25644.9	75°	19790.5	5197.4	272.1	213.8	159.4	139.9	174.9	182.7	139.9	108.8
17582.5	77.5°	13535.8	2985.5	182.7	136.1	101.1	81.6	120.5	112.7	73.9	50.5
6779.5	80°	5943.8	1244.0	105.0	62.2	38.9	31.1	42.8	31.1	23.3	15.5
929.1	82.5°	695.8	291.6	38.9	23.3	15.5	7.8	3.9	0.0	0.0	0.0
283.8	85°	143.8	35.0	19.4	7.8	3.9	0.0	0.0	0.0	0.0	0.0
50.5	87.5°	27.2	7.8	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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>
6973.9
6775.7
6476.3
5578.3
4058.4
2624.0
2103.1
1916.5
1737.6
1562.7
1411.1
1306.2
1193.4
1092.3
995.2
909.6
835.8
785.2
738.6
703.6
672.5
641.4
606.4
563.7
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