

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: P950724

Luminaire Tested: **GALN-SB5A-830-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950724
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5A-830-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20738 lumens
Efficiency: N/A
Efficacy: 146.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

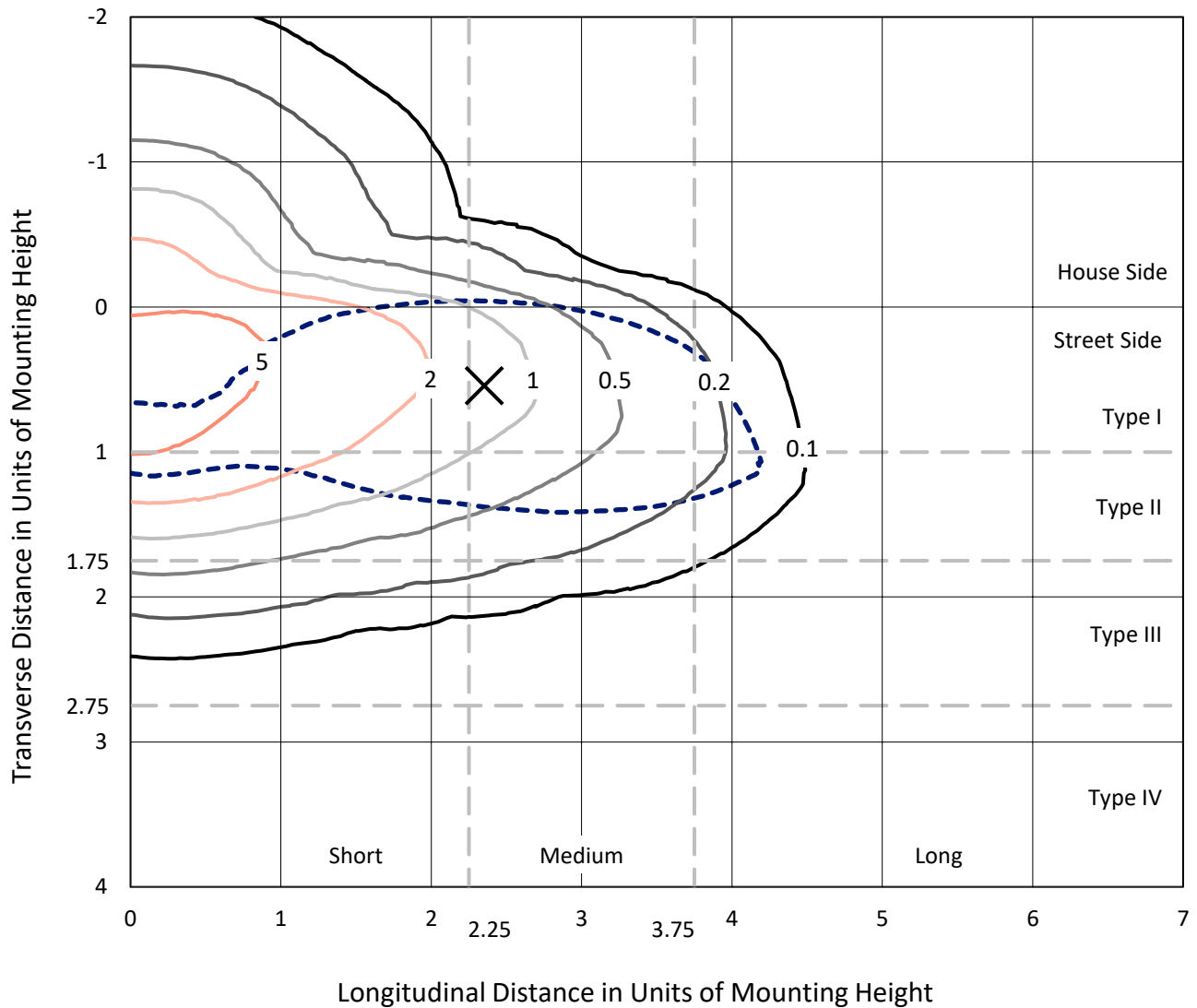
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

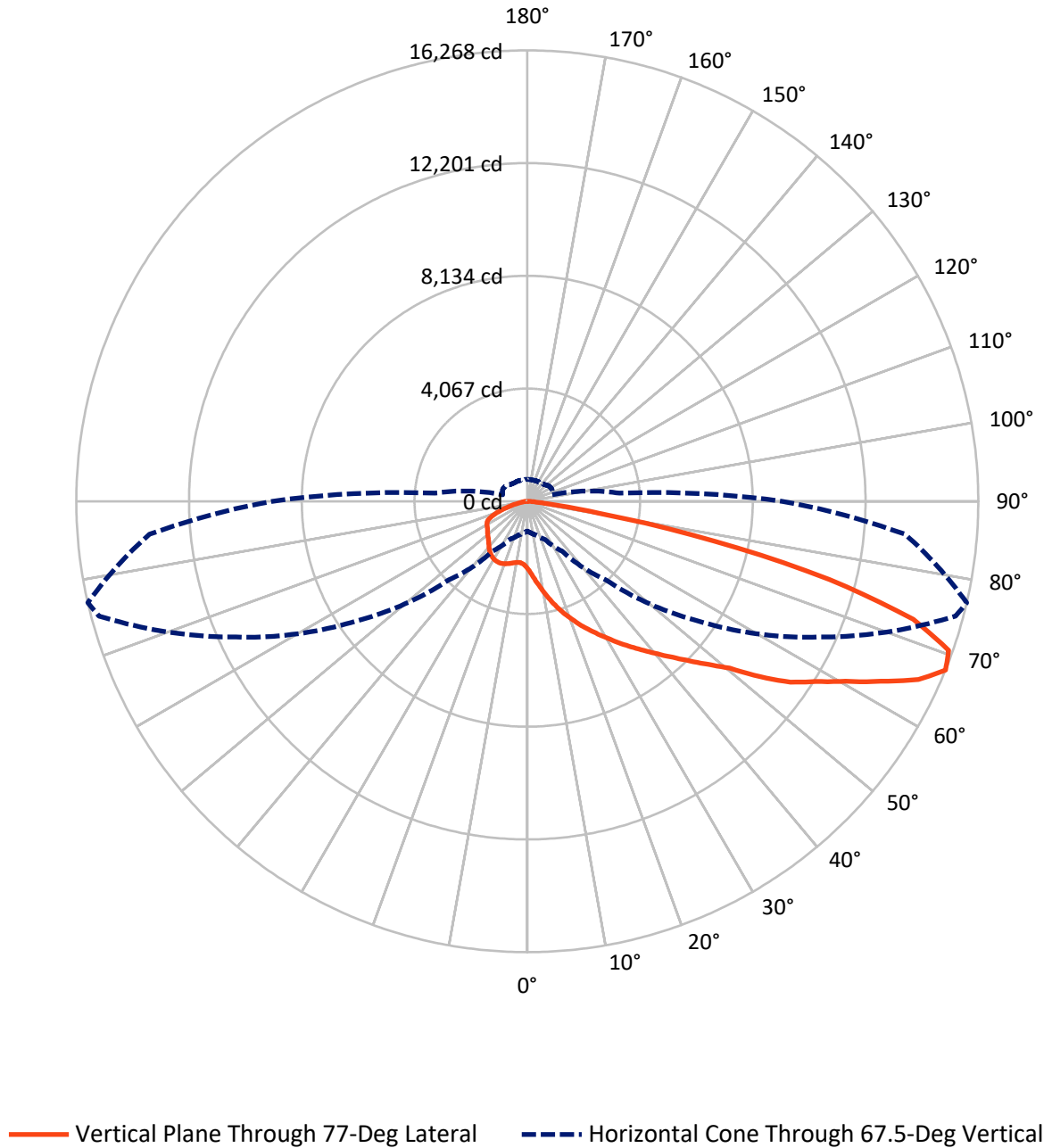
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3922.8	0.0	3922.8
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	16815.2	0.0	16815.2
	% Fixture	81.1	0.0	81.1
Total	Lumens	20738.0	0.0	20738.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.8	1.3
10°-20°	937.0	4.5
20°-30°	1769.1	8.5
30°-40°	2850.0	13.7
40°-50°	3898.3	18.8
50°-60°	4397.3	21.2
60°-70°	4104.3	19.8
70°-80°	2249.9	10.8
80°-90°	271.4	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°	20738.0	100.0
0°-180°	20738.0	100.0



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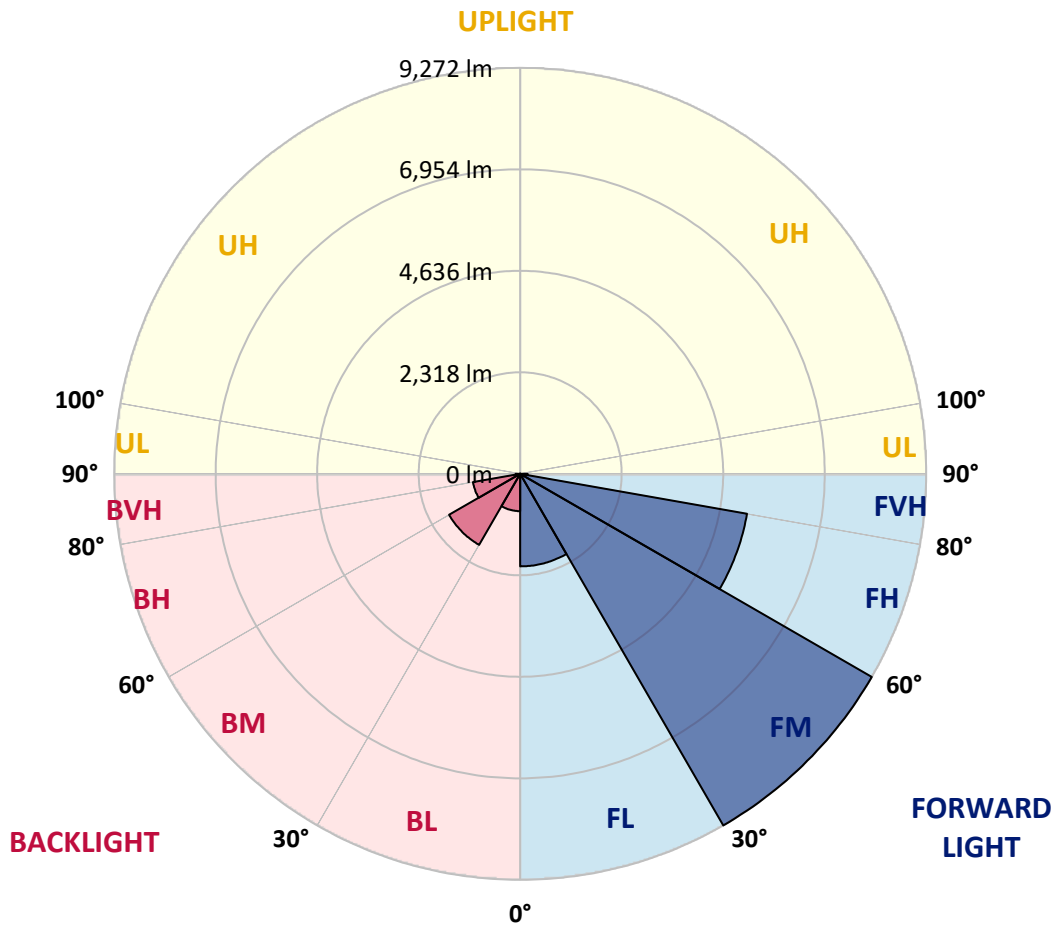
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2114.0	10.2			
FM (30°-60°)	9271.7	44.7			
FH (60°-80°)	5259.8	25.4			G3/7500
FVH (80°-90°)	169.7	0.8			G2/225
BL (0°-30°)	852.9	4.1	B2/1000		
BM (30°-60°)	1873.8	9.0	B2/2500		
BH (60°-80°)	1094.4	5.3	B3/2500		G3/2500
BVH (80°-90°)	101.7	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2433.2	2433.2	2433.2	2433.2	2433.2	2433.2	2433.2	2433.2	2433.2	2433.2
2.5°	3046.6	3068.0	3041.2	3041.2	2951.3	2904.2	2814.3	2745.8	2622.7	2601.3
5°	3601.1	3627.9	3590.4	3574.3	3468.4	3371.0	3220.0	3071.2	2851.8	2829.3
7.5°	4030.4	4064.6	4031.4	4014.3	3920.1	3810.9	3634.3	3426.6	3117.3	3073.4
10°	4380.4	4385.8	4375.1	4381.5	4307.6	4217.7	4036.8	3794.9	3408.4	3348.5
12.5°	4578.5	4603.1	4624.5	4663.0	4650.2	4594.5	4431.8	4142.8	3716.7	3639.6
15°	4671.6	4714.4	4762.6	4851.4	4923.2	4937.1	4812.9	4516.4	4030.4	3937.2
17.5°	4704.8	4745.5	4821.5	4949.9	5104.1	5207.9	5152.2	4879.3	4340.8	4233.8
20°	4872.8	4884.6	4930.7	5052.7	5219.7	5392.0	5433.8	5228.2	4648.0	4527.1
22.5°	5232.5	5209.0	5221.8	5277.5	5397.4	5564.4	5659.7	5536.5	4963.8	4824.7
25°	5826.6	5758.1	5689.6	5625.4	5686.4	5780.6	5888.7	5844.8	5294.6	5118.0
27.5°	6577.1	6493.6	6342.6	6131.7	6057.9	6091.1	6139.2	6130.7	5600.8	5422.0
30°	7315.7	7218.3	7038.4	6733.3	6538.5	6450.7	6414.3	6389.7	5933.7	5743.2
32.5°	7905.5	7828.5	7651.8	7310.3	7027.7	6877.9	6756.9	6669.1	6281.6	6091.1
35°	8421.5	8349.8	8147.5	7774.9	7467.7	7308.2	7149.8	6962.4	6643.4	6450.7
37.5°	8892.5	8820.8	8543.5	8156.0	7846.7	7736.4	7595.1	7277.2	7006.3	6824.3
40°	9190.1	9174.1	8915.0	8476.1	8155.0	8100.4	8053.3	7642.2	7408.8	7239.7
42.5°	9266.1	9301.4	9095.9	8735.2	8429.0	8385.1	8495.4	8055.4	7860.6	7698.9
45°	9083.1	9184.8	9049.9	8804.7	8623.8	8600.3	8887.2	8507.1	8360.5	8212.8
47.5°	8619.5	8791.9	8736.2	8702.0	8676.3	8778.0	9231.9	8986.7	8926.8	8798.3
50°	7683.9	8010.4	8107.9	8324.1	8572.4	8916.1	9545.5	9510.2	9588.3	9458.8
52.5°	6066.4	6516.0	7081.3	7622.9	8253.4	8870.0	9890.2	10261.7	10591.4	10520.7
55°	5007.7	5210.0	5644.7	6638.1	7634.7	8676.3	10045.4	10868.6	11586.9	11523.8
57.5°	4194.2	4375.1	4642.7	5472.3	6699.1	8236.3	10141.8	11239.0	12268.8	12262.4
60°	3321.7	3513.3	3787.4	4375.1	5606.1	7476.3	10120.4	11660.8	13139.1	13192.7
62.5°	2336.9	2547.8	2851.8	3399.9	4489.6	6491.4	9683.6	11965.9	14163.6	14309.2
65°	1536.1	1675.3	1904.4	2377.5	3345.3	5225.0	8849.7	12005.5	15259.8	15506.0
67.5°	1076.9	1130.4	1265.3	1522.2	2205.2	4006.8	7521.2	11595.5	15990.9	16268.2
70°	840.3	867.1	935.6	1038.4	1385.2	2694.4	5763.5	10529.3	15834.6	16123.6
72.5°	725.8	751.5	777.2	790.0	929.2	1663.5	3904.1	8803.7	14362.7	14558.6
75°	658.3	664.8	686.2	681.9	708.7	1079.0	2253.4	6414.3	11332.2	11264.7
77.5°	553.4	562.0	597.3	592.0	629.4	737.6	1170.0	4139.6	7346.7	6888.6
80°	468.9	473.2	511.7	505.3	547.0	534.2	597.3	2109.9	3116.2	2639.8
82.5°	162.7	201.3	390.7	402.5	417.5	323.3	344.7	860.7	951.7	729.0
85°	79.2	84.6	199.1	282.6	281.5	162.7	168.1	307.2	299.7	235.5
87.5°	12.8	16.1	23.6	110.3	87.8	42.8	57.8	59.9	62.1	53.5
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°
2433.2	0°	2433.2	2433.2	2433.2	2433.2	2433.2	2433.2	2433.2	2433.2	2433.2	2433.2
2519.9	2.5°	2460.0	2406.4	2294.0	2190.2	2108.9	2030.7	1986.8	1949.4	1927.9	1923.7
2637.7	5°	2526.3	2416.1	2211.6	2039.3	1926.9	1843.4	1799.5	1771.7	1757.7	1749.2
2796.1	7.5°	2621.6	2460.0	2168.8	1972.9	1855.1	1795.2	1772.7	1768.4	1767.4	1768.4
2987.7	10°	2753.3	2531.7	2164.5	1956.8	1858.4	1825.2	1824.1	1825.2	1829.5	1830.5
3196.5	12.5°	2895.7	2605.6	2181.6	1970.8	1899.0	1880.8	1877.6	1876.6	1879.8	1881.9
3407.4	15°	3050.9	2703.0	2210.6	2000.7	1944.0	1924.7	1921.5	1915.1	1914.0	1913.0
3628.9	17.5°	3210.4	2799.3	2242.7	2032.9	1972.9	1946.1	1934.4	1919.4	1907.6	1904.4
3858.0	20°	3372.0	2894.6	2265.1	2048.9	1975.0	1937.6	1914.0	1888.3	1868.0	1856.2
4089.3	22.5°	3544.4	2994.1	2279.1	2044.6	1955.8	1904.4	1861.6	1831.6	1800.6	1780.2
4322.6	25°	3712.4	3080.9	2278.0	2022.1	1918.3	1853.0	1798.4	1759.9	1717.1	1695.6
4563.5	27.5°	3874.1	3159.0	2251.2	1982.5	1864.8	1792.0	1726.7	1680.7	1638.9	1618.6
4806.5	30°	4041.1	3224.3	2209.5	1924.7	1801.6	1721.3	1649.6	1610.0	1572.5	1553.3
5063.4	32.5°	4207.0	3284.2	2150.6	1853.0	1728.8	1651.8	1581.1	1544.7	1522.2	1522.2
5339.6	35°	4382.6	3326.0	2072.5	1769.5	1651.8	1577.9	1522.2	1500.8	1498.7	1485.8
5631.8	37.5°	4567.8	3352.8	1977.2	1683.9	1575.8	1506.2	1489.0	1463.4	1441.9	1414.1
5953.0	40°	4762.6	3379.5	1862.6	1595.0	1495.5	1456.9	1449.4	1415.2	1354.2	1285.7
6316.9	42.5°	4999.2	3397.7	1743.8	1506.2	1410.9	1398.1	1408.8	1349.9	1252.5	1201.1
6755.8	45°	5273.2	3427.7	1634.6	1418.4	1324.2	1324.2	1369.1	1292.1	1211.8	1179.7
7256.8	47.5°	5628.6	3497.3	1532.9	1322.0	1243.9	1265.3	1281.4	1222.5	1177.5	1137.9
7867.0	50°	6142.4	3664.3	1428.0	1224.6	1182.9	1225.7	1203.2	1169.0	1116.5	1084.4
8836.9	52.5°	6780.4	3762.8	1334.9	1136.9	1130.4	1173.3	1141.1	1109.0	1069.4	1026.6
9572.3	55°	7215.1	3781.0	1256.7	1072.6	1095.1	1090.8	1079.0	1050.1	1028.7	972.0
10298.1	57.5°	7701.1	3817.3	1192.5	1034.1	1072.6	1025.5	1021.2	996.6	968.8	930.3
11183.4	60°	8282.3	3874.1	1136.9	1019.1	1053.4	982.7	961.3	951.7	923.8	904.6
12248.5	62.5°	8916.1	3925.5	1080.1	1021.2	1030.9	941.0	908.8	905.6	888.5	882.1
13248.3	65°	9348.5	3785.2	1009.5	1019.1	995.6	898.1	857.5	856.4	842.5	840.3
13681.9	67.5°	9197.6	3341.0	914.2	989.1	959.2	855.3	810.4	806.1	787.9	788.9
13229.0	70°	8441.8	2707.3	782.5	915.3	914.2	816.8	761.1	747.2	722.6	726.9
11502.4	72.5°	7024.5	2006.1	605.9	792.2	842.5	781.5	704.4	681.9	650.9	655.1
8491.1	75°	5073.0	1363.8	441.0	602.7	733.3	739.7	648.7	610.2	572.7	579.1
4726.2	77.5°	2595.9	772.9	324.4	415.3	575.9	672.3	598.4	547.0	538.5	598.4
1362.7	80°	846.8	387.5	224.8	291.2	377.9	550.2	524.5	465.7	463.5	477.4
285.8	82.5°	252.6	163.8	144.5	191.6	208.7	421.8	452.8	352.2	302.9	319.0
95.3	85°	86.7	79.2	82.4	95.3	99.6	247.3	316.9	233.4	220.5	243.0
21.4	87.5°	20.3	27.8	23.6	21.4	21.4	59.9	123.1	97.4	134.9	89.9
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°
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2433.2
1923.7
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1771.7
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1883.0
1911.9
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1860.5
1781.3
1695.6
1617.5
1552.2
1523.3
1482.6
1409.8
1276.0
1202.2
1185.0
1136.9
1081.2
1018.0
973.1
917.4
909.9
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839.3
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