

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: P943408

Luminaire Tested: **GALN-SB7D-840-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943408
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB7D-840-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52411 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

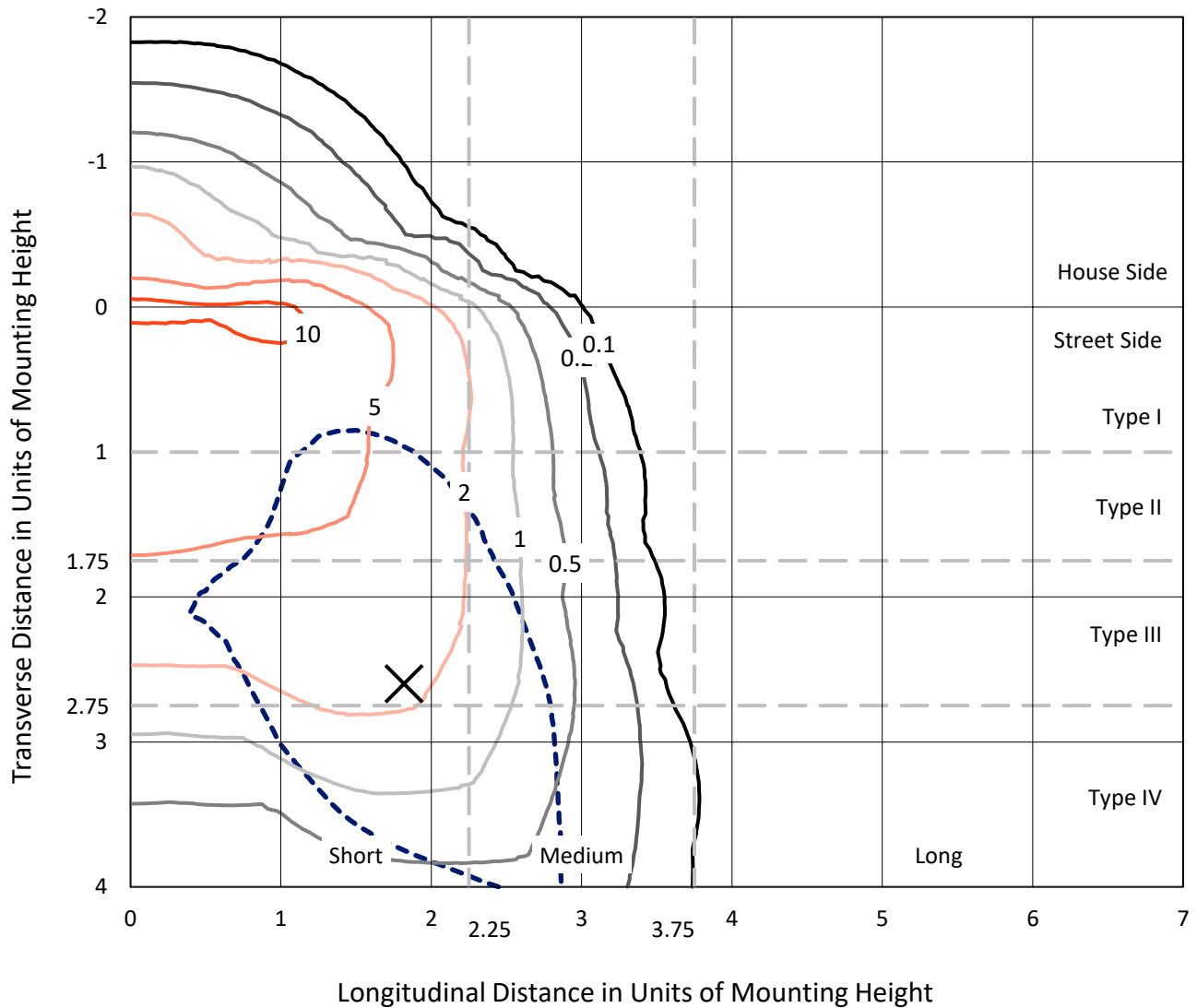
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

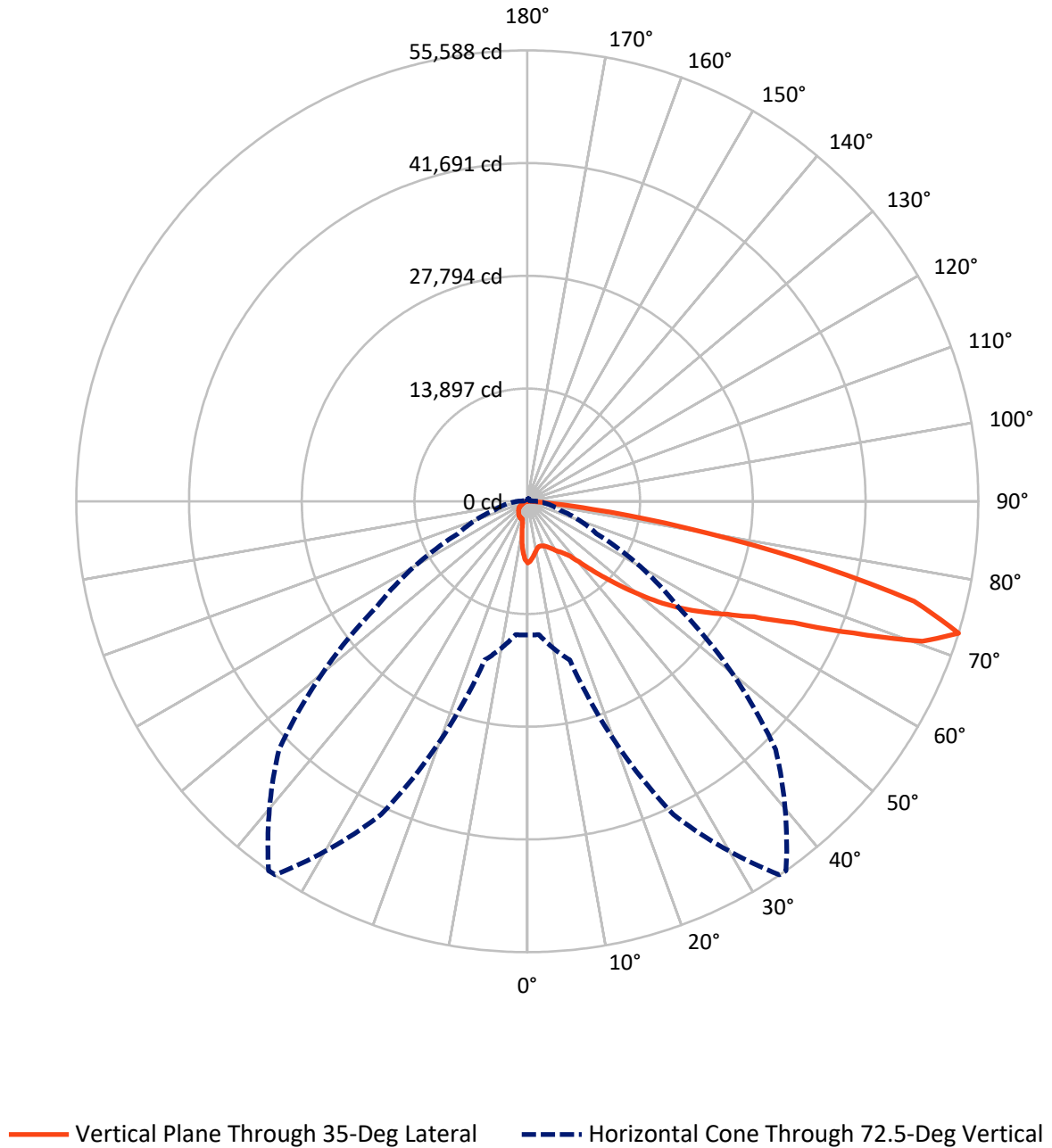
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5898.6	0.0	5898.6
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	46512.4	0.0	46512.4
	% Fixture	88.7	0.0	88.7
Total	Lumens	52411.0	0.0	52411.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	624.2	1.2
10°-20°	1460.2	2.8
20°-30°	2372.1	4.5
30°-40°	3957.9	7.6
40°-50°	7488.4	14.3
50°-60°	11899.0	22.7
60°-70°	14719.8	28.1
70°-80°	9150.0	17.5
80°-90°	739.5	1.4
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°	52411.0	100.0
0°-180°	52411.0	100.0

Coefficient of Utilization



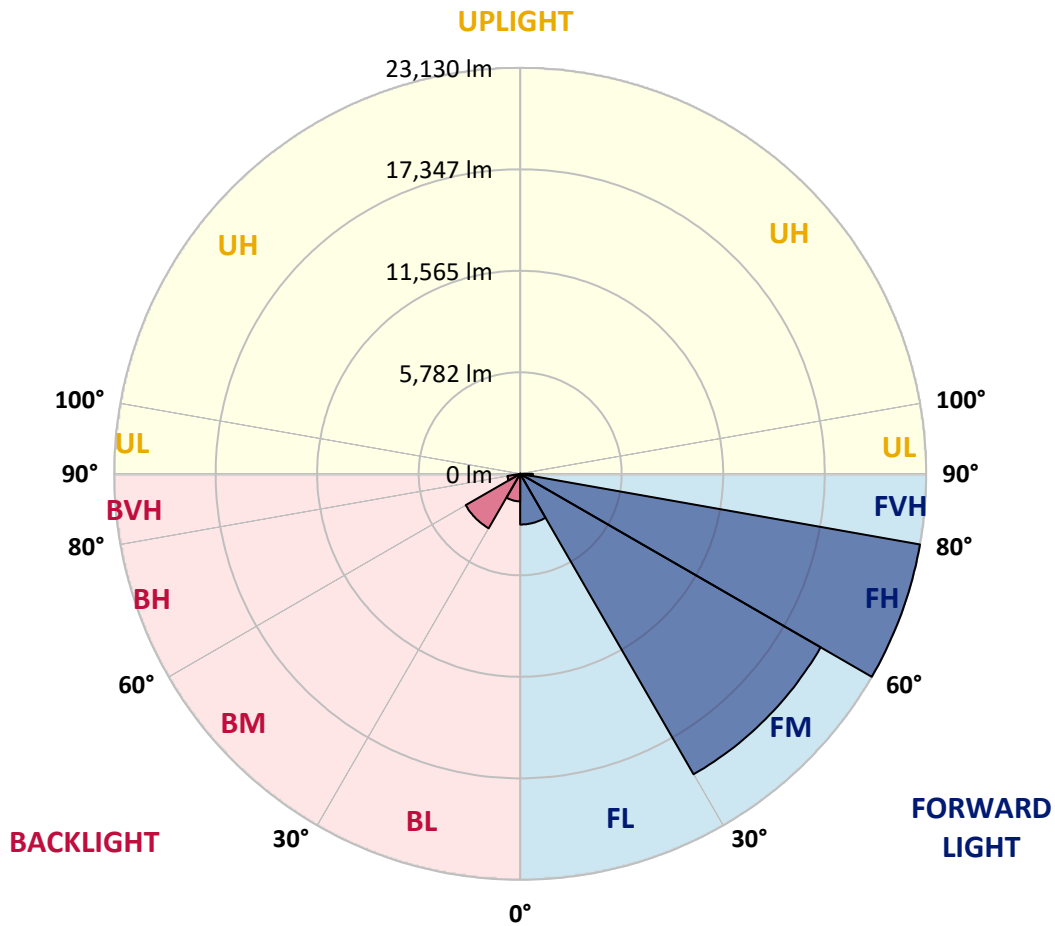
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2889.2	5.5			
FM (30°-60°)	19764.2	37.7			
FH (60°-80°)	23129.6	44.1			G5
FVH (80°-90°)	729.4	1.4			G4/750
BL (0°-30°)	1567.4	3.0	B3/2500		
BM (30°-60°)	3581.0	6.8	B3/5000		
BH (60°-80°)	740.2	1.4	B2/1000		G2/1000
BVH (80°-90°)	10.1	0.0			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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	7596.1	7596.1	7596.1	7596.1	7596.1	7596.1	7596.1	7596.1	7596.1	7596.1
2.5°	7258.2	7319.6	7331.1	7350.3	7350.3	7373.4	7411.8	7465.5	7553.9	7600.0
5°	6689.8	6735.9	6793.5	6839.6	6927.9	6939.4	7089.2	7235.1	7438.7	7592.3
7.5°	6117.6	6171.4	6248.2	6359.5	6474.7	6509.3	6735.9	6981.7	7304.2	7592.3
10°	5714.4	5718.2	5787.3	5898.7	6083.0	6125.3	6401.8	6751.2	7154.5	7546.2
12.5°	5487.8	5514.7	5545.4	5629.9	5806.5	5833.4	6129.1	6540.0	7004.7	7519.3
15°	5487.8	5507.0	5526.2	5568.4	5710.5	5733.6	5994.7	6405.6	6927.9	7530.8
17.5°	5545.4	5576.1	5560.8	5610.7	5760.4	5775.8	6006.2	6367.2	6924.1	7603.8
20°	5683.6	5706.7	5676.0	5706.7	5856.5	5887.2	6125.3	6440.2	6989.3	7730.5
22.5°	5902.5	5914.1	5841.1	5864.1	6017.7	6056.2	6332.7	6647.6	7146.8	7934.1
25°	6179.0	6202.1	6090.7	6117.6	6263.5	6309.6	6628.4	6958.6	7396.4	8214.4
27.5°	6497.8	6509.3	6413.3	6409.5	6597.6	6662.9	6985.5	7342.7	7730.5	8567.7
30°	6862.6	6897.2	6805.0	6789.6	7027.7	7081.5	7400.3	7815.0	8222.1	9097.7
32.5°	7150.6	7177.5	7123.8	7162.2	7404.1	7446.3	7903.3	8483.2	8994.0	9850.4
35°	7565.4	7580.7	7457.9	7527.0	7803.5	7911.0	8590.7	9420.3	9965.6	10795.1
37.5°	9066.9	9066.9	8544.7	8202.9	8467.9	8563.9	9531.6	10599.2	11163.7	12062.4
40°	11144.5	11110.0	10345.8	9646.8	9612.3	9800.4	10871.9	12085.4	12711.4	13583.1
42.5°	13360.4	13306.6	12265.9	11574.7	11459.5	11524.7	12419.5	13917.2	14554.7	15438.0
45°	15326.6	15311.3	14358.9	13429.5	13222.1	13429.5	14351.2	16060.1	16517.1	17446.5
47.5°	16974.1	16974.1	16279.0	15672.3	15564.7	15687.6	16966.4	18437.3	18395.0	19585.5
50°	18871.2	18855.9	18195.3	17934.2	18045.6	18218.4	19977.2	20941.1	20338.2	21686.2
52.5°	20200.0	20292.1	20065.6	20023.3	20591.7	20891.2	23034.1	23391.3	22077.9	23679.3
55°	21252.2	21359.7	21620.9	21916.6	23011.1	23402.8	25995.0	25714.6	23533.4	25407.4
57.5°	22742.2	22588.6	22991.9	23575.6	25346.0	25818.3	28863.7	27907.5	24704.6	26809.1
60°	24551.0	24574.1	24643.2	25380.5	27677.0	28283.8	31690.1	29981.2	25457.3	27669.4
62.5°	26724.6	26759.2	26901.3	28034.2	30806.9	31379.1	34700.9	31678.6	25803.0	27427.4
65°	26574.9	26720.8	28306.8	32181.7	35565.0	36129.5	38214.8	32869.1	25280.7	25215.4
67.5°	24209.2	24447.3	27101.0	37135.7	42738.7	43368.5	42462.2	33103.4	23026.4	19608.6
70°	21106.3	21190.8	24382.1	41590.4	51045.3	51682.7	46264.1	30526.5	17473.4	10937.2
72.5°	16482.6	16501.8	20246.1	42623.5	55553.8	55588.3	43280.2	22661.6	9397.2	4201.3
75°	11774.4	11659.1	13560.1	34566.5	48875.5	49267.2	32446.7	10629.9	3590.7	1985.4
77.5°	6313.5	6440.2	7672.9	20499.5	33763.9	34432.1	17703.8	3064.6	1828.0	1351.8
80°	1950.9	2058.4	3145.2	9385.7	19124.7	19527.9	6563.1	1363.3	1275.0	963.9
82.5°	614.4	637.5	1467.0	3944.0	7937.9	8122.2	1900.9	771.9	871.7	637.5
85°	176.7	180.5	652.9	1470.8	1962.4	2000.8	533.8	299.5	499.2	395.6
87.5°	19.2	61.4	245.8	245.8	172.8	169.0	57.6	65.3	142.1	49.9
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°
7596.1	0°	7596.1	7596.1	7596.1	7596.1	7596.1	7596.1	7596.1	7596.1	7596.1	7596.1
7630.7	2.5°	7611.5	7615.3	7565.4	7480.9	7388.7	7311.9	7215.9	7139.1	7085.4	7070.0
7699.8	5°	7665.2	7638.4	7496.3	7239.0	6931.7	6666.8	6371.1	6136.8	5983.2	5917.9
7772.8	7.5°	7745.9	7669.1	7358.0	6851.1	6263.5	5741.2	5211.3	4800.4	4539.2	4408.7
7841.9	10°	7815.0	7661.4	7127.6	6290.4	5391.8	4600.7	3886.4	3391.0	3114.5	2983.9
7922.5	12.5°	7880.3	7657.6	6828.1	5626.0	4408.7	3440.9	2776.5	2530.8	2454.0	2427.1
8053.1	15°	8003.2	7669.1	6451.7	4865.7	3429.4	2599.9	2357.9	2354.1	2369.5	2361.8
8252.8	17.5°	8172.2	7680.6	6025.4	4059.2	2646.0	2292.7	2281.1	2315.7	2338.7	2327.2
8502.4	20°	8391.1	7726.7	5572.3	3260.4	2273.5	2215.9	2242.7	2273.5	2292.7	2273.5
8836.5	22.5°	8698.3	7807.3	5076.9	2619.1	2154.4	2169.8	2192.8	2227.4	2246.6	2219.7
9262.8	25°	9074.6	7934.1	4589.2	2277.3	2096.8	2116.0	2150.6	2189.0	2212.0	2185.1
9800.4	27.5°	9562.3	8137.6	4139.8	2200.5	2039.2	2050.7	2100.6	2158.2	2189.0	2154.4
10564.7	30°	10269.0	8471.7	3752.0	2235.1	2004.6	1977.8	2046.9	2127.5	2162.1	2131.4
11605.4	32.5°	11206.0	8944.1	3513.9	2288.8	1989.3	1893.3	1958.6	2062.2	2119.8	2100.6
12964.8	35°	12434.9	9662.2	3421.7	2350.3	1977.8	1804.9	1851.0	1962.4	2062.2	2081.4
14677.6	37.5°	13924.9	10660.7	3448.6	2377.1	1943.2	1732.0	1755.0	1851.0	1981.6	2043.0
16605.5	40°	15618.5	11824.3	3602.2	2350.3	1904.8	1670.5	1674.4	1747.3	1862.5	1954.7
18679.2	42.5°	17365.8	13183.7	3886.4	2250.4	1870.2	1616.8	1605.2	1655.2	1732.0	1797.3
20749.1	45°	19028.7	14581.6	4166.7	2112.2	1828.0	1563.0	1536.1	1555.3	1570.7	1597.6
22765.3	47.5°	20480.3	15564.7	4086.1	1985.4	1770.4	1501.6	1455.5	1447.8	1401.7	1397.9
24566.4	50°	21482.6	15779.8	3629.1	1858.7	1685.9	1432.4	1359.5	1313.4	1232.7	1194.3
25914.3	52.5°	21801.4	14931.1	2964.7	1732.0	1547.6	1340.3	1236.6	1163.6	1063.8	1029.2
26690.1	55°	21378.9	13268.2	2369.5	1578.4	1355.6	1217.4	1102.2	1006.2	925.5	883.3
26774.6	57.5°	20345.9	11152.2	1874.1	1397.9	1152.1	1079.1	963.9	867.9	798.8	756.5
25837.5	60°	18633.1	8855.7	1482.4	1182.8	983.1	929.4	810.3	748.9	687.4	637.5
23418.1	62.5°	16033.2	6321.1	1163.6	937.0	821.8	760.4	691.3	645.2	572.2	503.1
19067.1	65°	12511.7	3867.2	898.6	687.4	660.5	629.8	587.6	545.3	457.0	387.9
12438.7	67.5°	7891.8	1831.8	641.3	518.4	522.3	506.9	487.7	453.2	387.9	326.4
5572.3	70°	3475.5	887.1	422.4	395.6	387.9	387.9	403.2	391.7	330.3	272.7
1935.5	72.5°	1182.8	476.2	314.9	299.5	280.3	276.5	337.9	326.4	265.0	211.2
963.9	75°	618.3	318.7	230.4	215.1	169.0	203.5	268.8	253.5	188.2	138.3
637.5	77.5°	403.2	226.6	157.5	138.3	96.0	134.4	199.7	176.7	111.4	69.1
418.6	80°	253.5	149.8	92.2	65.3	46.1	73.0	107.5	76.8	42.2	15.4
245.8	82.5°	134.4	76.8	34.6	23.0	19.2	23.0	26.9	19.2	7.7	0.0
126.7	85°	53.8	26.9	11.5	7.7	3.8	0.0	7.7	3.8	0.0	0.0
23.0	87.5°	19.2	3.8	0.0	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>
7596.1
7096.9
5940.9
4427.9
2987.8
2419.4
2357.9
2323.4
2269.6
2215.9
2181.3
2154.4
2127.5
2100.6
2081.4
2058.4
1985.4
1824.1
1612.9
1394.0
1198.2
1025.4
883.3
748.9
626.0
491.6
376.3
318.7
261.1
199.7
126.7
61.4
11.5
0.0
0.0
0.0
0.0

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