

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: P952194

Luminaire Tested: **GALN-SB6A-840-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952194
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-SB6A-840-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26502 lumens
Efficiency: N/A
Efficacy: 155.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

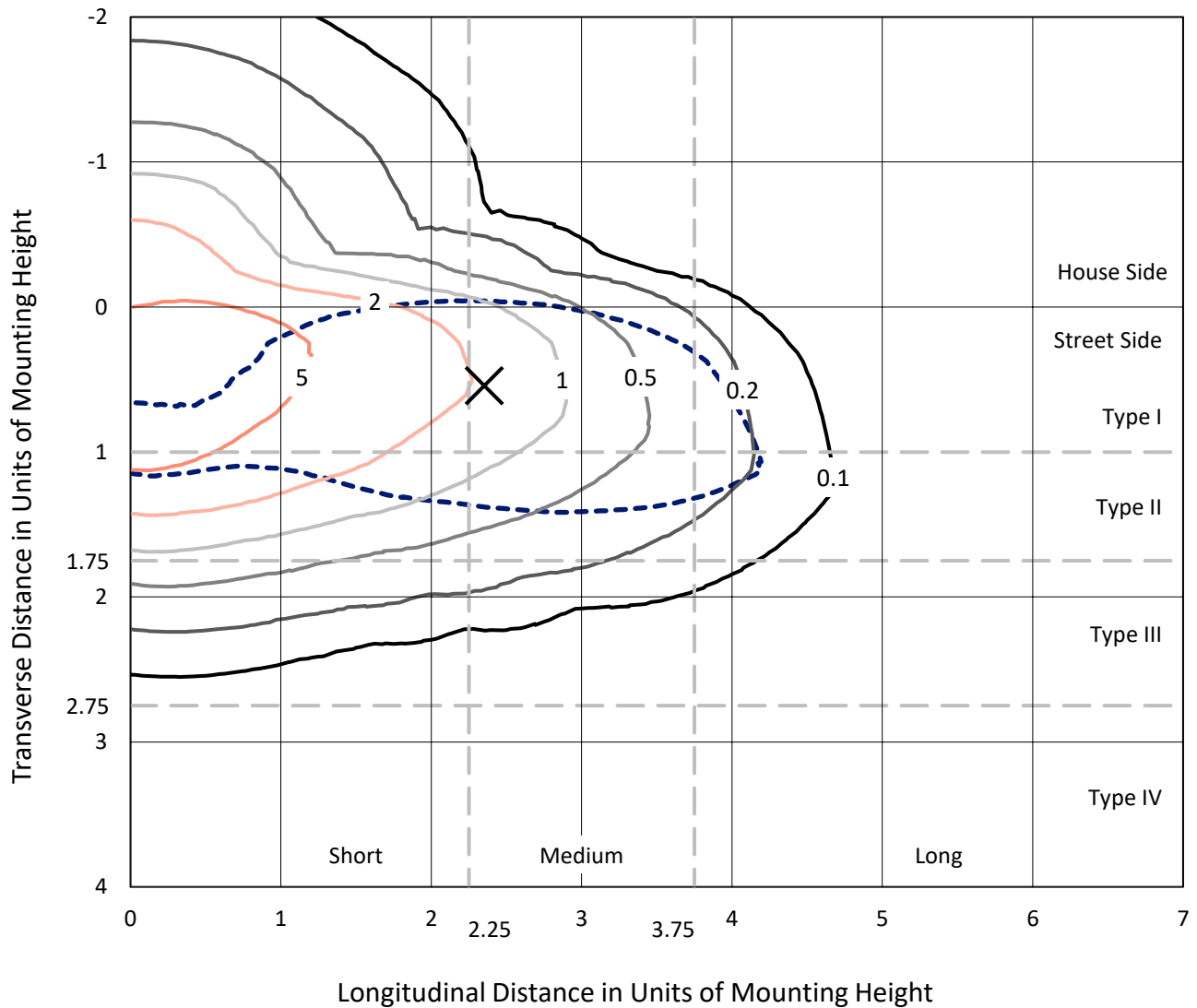
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

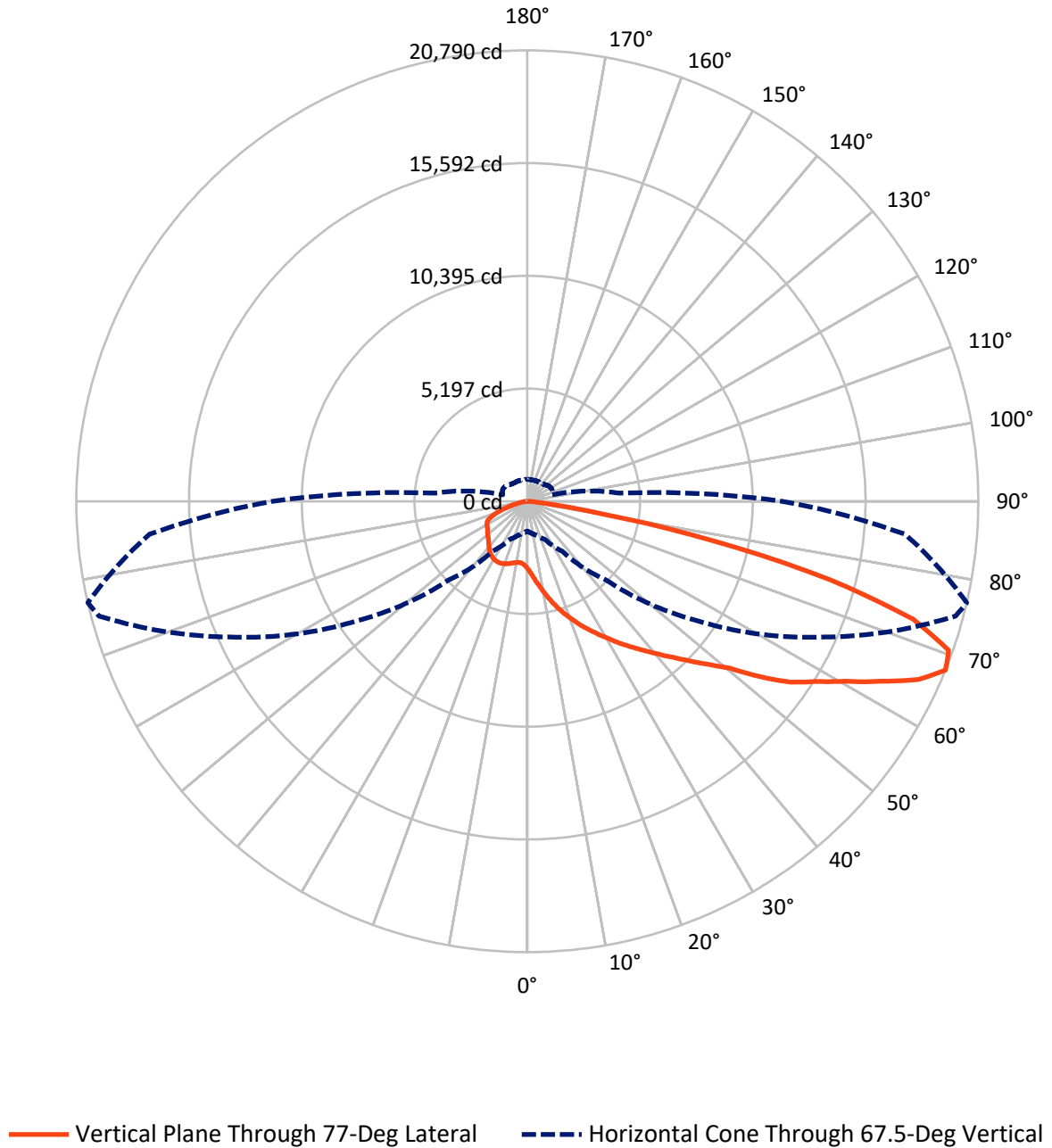
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 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	5013.1	0.0	5013.1
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	21488.9	0.0	21488.9
	% Fixture	81.1	0.0	81.1
Total	Lumens	26502.0	0.0	26502.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	333.3	1.3
10°-20°	1197.4	4.5
20°-30°	2260.8	8.5
30°-40°	3642.1	13.7
40°-50°	4981.8	18.8
50°-60°	5619.5	21.2
60°-70°	5245.1	19.8
70°-80°	2875.2	10.8
80°-90°	346.8	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°	26502.0	100.0
0°-180°	26502.0	100.0

Coefficient of Utilization



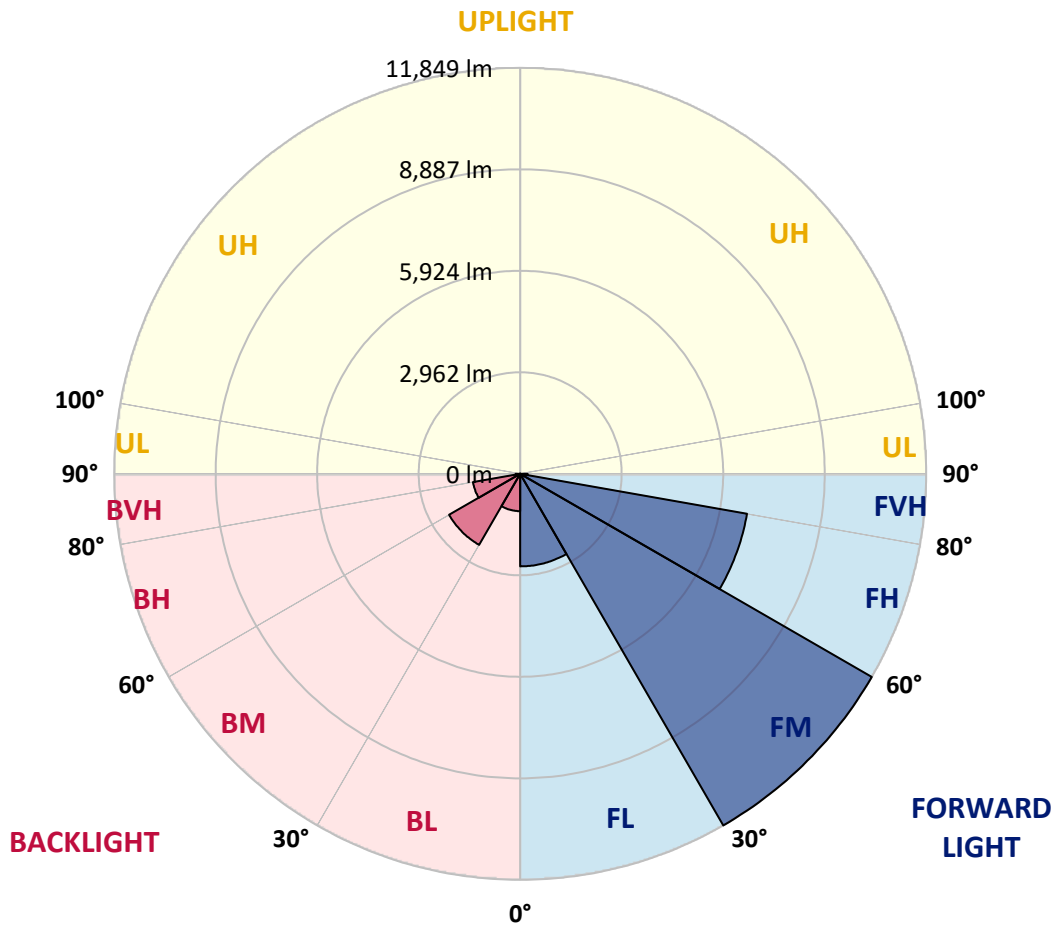
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2701.5	10.2			
FM (30°-60°)	11848.8	44.7			
FH (60°-80°)	6721.7	25.4			G3/7500
FVH (80°-90°)	216.9	0.8			G2/225
BL (0°-30°)	1090.0	4.1	B3/2500		
BM (30°-60°)	2394.6	9.0	B2/2500		
BH (60°-80°)	1398.6	5.3	B3/2500		G3/2500
BVH (80°-90°)	129.9	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°	3109.5	3109.5	3109.5	3109.5	3109.5	3109.5	3109.5	3109.5	3109.5	3109.5
2.5°	3893.4	3920.7	3886.5	3886.5	3771.6	3711.4	3596.5	3509.0	3351.6	3324.3
5°	4602.0	4636.2	4588.3	4567.8	4432.4	4307.9	4115.0	3924.8	3644.4	3615.7
7.5°	5150.6	5194.4	5152.0	5130.1	5009.7	4870.1	4644.4	4379.0	3983.7	3927.6
10°	5597.9	5604.8	5591.1	5599.3	5504.9	5390.0	5158.8	4849.6	4355.8	4279.2
12.5°	5851.0	5882.5	5909.8	5959.1	5942.7	5871.5	5663.6	5294.2	4749.8	4651.3
15°	5970.0	6024.8	6086.3	6199.9	6291.5	6309.3	6150.6	5771.7	5150.6	5031.6
17.5°	6012.4	6064.4	6161.6	6325.7	6522.7	6655.4	6584.3	6235.4	5547.3	5410.5
20°	6227.2	6242.3	6301.1	6457.1	6670.5	6890.7	6944.1	6681.4	5939.9	5785.4
22.5°	6686.9	6656.8	6673.2	6744.3	6897.6	7111.0	7232.7	7075.4	6343.5	6165.7
25°	7446.1	7358.6	7271.0	7188.9	7266.9	7387.3	7525.5	7469.4	6766.2	6540.5
27.5°	8405.1	8298.4	8105.5	7836.0	7741.6	7784.0	7845.6	7834.6	7157.5	6929.0
30°	9349.0	9224.6	8994.7	8604.8	8355.9	8243.7	8197.2	8165.7	7582.9	7339.4
32.5°	10102.8	10004.3	9778.6	9342.2	8981.0	8789.5	8634.9	8522.8	8027.5	7784.0
35°	10762.2	10670.6	10412.0	9935.9	9543.3	9339.5	9137.0	8897.6	8489.9	8243.7
37.5°	11364.1	11272.5	10918.2	10422.9	10027.6	9886.7	9706.1	9299.8	8953.7	8721.1
40°	11744.4	11723.9	11392.9	10832.0	10421.6	10351.8	10291.6	9766.3	9468.1	9251.9
42.5°	11841.6	11886.7	11624.1	11163.0	10771.8	10715.7	10856.6	10294.3	10045.4	9838.8
45°	11607.6	11737.6	11565.2	11252.0	11020.8	10990.7	11357.3	10871.6	10684.2	10495.4
47.5°	11015.3	11235.5	11164.4	11120.6	11087.8	11217.8	11797.8	11484.5	11407.9	11243.8
50°	9819.6	10236.9	10361.4	10637.7	10955.1	11394.2	12198.6	12153.5	12253.3	12087.8
52.5°	7752.6	8327.1	9049.4	9741.7	10547.4	11335.4	12639.1	13113.8	13535.2	13444.9
55°	6399.6	6658.2	7213.6	8483.1	9756.7	11087.8	12837.5	13889.5	14807.4	14726.7
57.5°	5359.9	5591.1	5933.1	6993.3	8561.1	10525.5	12960.6	14362.8	15678.9	15670.7
60°	4245.0	4489.8	4840.1	5591.1	7164.3	9554.2	12933.3	14901.8	16791.1	16859.5
62.5°	2986.4	3255.9	3644.4	4344.8	5737.5	8295.7	12375.1	15291.7	18100.3	18286.3
65°	1963.1	2141.0	2433.7	3038.4	4275.1	6677.3	11309.4	15342.3	19501.1	19815.8
67.5°	1376.2	1444.6	1617.0	1945.3	2818.1	5120.5	9611.7	14818.4	20435.5	20789.8
70°	1073.9	1108.1	1195.6	1327.0	1770.2	3443.3	7365.4	13455.8	20235.7	20605.1
72.5°	927.5	960.3	993.2	1009.6	1187.4	2125.9	4989.2	11250.6	18354.7	18605.1
75°	841.3	849.5	876.9	871.4	905.6	1379.0	2879.7	8197.2	14481.9	14395.7
77.5°	707.3	718.2	763.4	756.5	804.4	942.6	1495.2	5290.1	9388.7	8803.2
80°	599.2	604.7	653.9	645.7	699.1	682.6	763.4	2696.4	3982.3	3373.5
82.5°	207.9	257.2	499.3	514.4	533.5	413.1	440.5	1099.9	1216.2	931.6
85°	101.2	108.1	254.5	361.2	359.8	207.9	214.8	392.6	383.0	301.0
87.5°	16.4	20.5	30.1	140.9	112.2	54.7	73.9	76.6	79.3	68.4
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°
3109.5	0°	3109.5	3109.5	3109.5	3109.5	3109.5	3109.5	3109.5	3109.5	3109.5	3109.5
3220.3	2.5°	3143.7	3075.3	2931.7	2799.0	2695.0	2595.1	2539.0	2491.2	2463.8	2458.3
3370.8	5°	3228.5	3087.6	2826.3	2606.1	2462.4	2355.7	2299.6	2264.1	2246.3	2235.3
3573.3	7.5°	3350.3	3143.7	2771.6	2521.3	2370.8	2294.2	2265.4	2260.0	2258.6	2260.0
3818.1	10°	3518.5	3235.4	2766.1	2500.7	2374.9	2332.5	2331.1	2332.5	2337.9	2339.3
4084.9	12.5°	3700.5	3329.8	2788.0	2518.5	2426.9	2403.6	2399.5	2398.1	2402.2	2405.0
4354.4	15°	3898.9	3454.2	2825.0	2556.8	2484.3	2459.7	2455.6	2447.4	2446.0	2444.7
4637.6	17.5°	4102.7	3577.4	2866.0	2597.9	2521.3	2487.1	2472.0	2452.9	2437.8	2433.7
4930.3	20°	4309.3	3699.1	2894.7	2618.4	2524.0	2476.1	2446.0	2413.2	2387.2	2372.1
5225.8	22.5°	4529.5	3826.4	2912.5	2612.9	2499.4	2433.7	2379.0	2340.7	2301.0	2275.0
5524.1	25°	4744.3	3937.2	2911.1	2584.2	2451.5	2368.0	2298.3	2249.0	2194.3	2166.9
5831.9	27.5°	4950.9	4037.0	2876.9	2533.6	2383.1	2290.1	2206.6	2147.8	2094.4	2068.4
6142.4	30°	5164.3	4120.5	2823.6	2459.7	2302.4	2199.8	2108.1	2057.5	2009.6	1985.0
6470.7	32.5°	5376.3	4197.1	2748.4	2368.0	2209.4	2110.9	2020.6	1974.1	1945.3	1945.3
6823.7	35°	5600.7	4250.4	2648.5	2261.3	2110.9	2016.5	1945.3	1918.0	1915.2	1898.8
7197.1	37.5°	5837.3	4284.6	2526.7	2151.9	2013.7	1924.8	1902.9	1870.1	1842.7	1807.2
7607.6	40°	6086.3	4318.8	2380.4	2038.3	1911.1	1861.9	1852.3	1808.5	1730.5	1643.0
8072.7	42.5°	6388.7	4342.1	2228.5	1924.8	1803.0	1786.6	1800.3	1725.1	1600.6	1534.9
8633.6	45°	6738.9	4380.4	2089.0	1812.6	1692.2	1692.2	1749.7	1651.2	1548.6	1507.6
9273.8	47.5°	7193.0	4469.3	1959.0	1689.5	1589.6	1617.0	1637.5	1562.3	1504.8	1454.2
10053.6	50°	7849.7	4682.7	1824.9	1565.0	1511.7	1566.4	1537.7	1493.9	1426.8	1385.8
11293.0	52.5°	8665.0	4808.6	1705.9	1452.8	1444.6	1499.3	1458.3	1417.3	1366.7	1311.9
12232.8	55°	9220.5	4831.8	1606.1	1370.8	1399.5	1394.0	1379.0	1342.0	1314.7	1242.2
13160.3	57.5°	9841.5	4878.4	1524.0	1321.5	1370.8	1310.6	1305.1	1273.6	1238.1	1188.8
14291.7	60°	10584.4	4950.9	1452.8	1302.4	1346.1	1255.8	1228.5	1216.2	1180.6	1156.0
15652.9	62.5°	11394.2	5016.5	1380.3	1305.1	1317.4	1202.5	1161.4	1157.3	1135.5	1127.2
16930.6	65°	11946.9	4837.3	1290.0	1302.4	1272.3	1147.8	1095.8	1094.4	1076.6	1073.9
17484.7	67.5°	11754.0	4269.6	1168.3	1264.0	1225.7	1093.0	1035.6	1030.1	1006.9	1008.2
16906.0	70°	10788.2	3459.7	1000.0	1169.7	1168.3	1043.8	972.7	954.9	923.4	928.9
14699.4	72.5°	8976.9	2563.7	774.3	1012.3	1076.6	998.7	900.2	871.4	831.8	837.2
10851.1	75°	6483.0	1742.9	563.6	770.2	937.1	945.3	829.0	779.8	731.9	740.1
6039.8	77.5°	3317.4	987.7	414.5	530.8	736.0	859.1	764.7	699.1	688.1	764.7
1741.5	80°	1082.1	495.2	287.3	372.1	482.9	703.2	670.3	595.1	592.4	610.1
365.3	82.5°	322.9	209.3	184.7	244.9	266.8	539.0	578.7	450.1	387.1	407.7
121.8	85°	110.8	101.2	105.3	121.8	127.2	316.0	404.9	298.2	281.8	310.5
27.4	87.5°	26.0	35.6	30.1	27.4	27.4	76.6	157.3	124.5	172.4	114.9
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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<u>180°</u>
3109.5
2458.3
2234.0
2264.1
2340.7
2406.3
2443.3
2437.8
2377.6
2276.4
2166.9
2067.1
1983.6
1946.7
1894.7
1801.7
1630.7
1536.3
1514.4
1452.8
1381.7
1301.0
1243.5
1172.4
1162.8
1127.2
1072.5
1008.2
934.4
835.9
742.8
753.8
524.0
421.3
306.4
110.8
0.0

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