

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: P952299

Luminaire Tested: **GALN-SB6A-940-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952299
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-940-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 90 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: 20077 lumens
Efficiency: N/A
Efficacy: 117.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

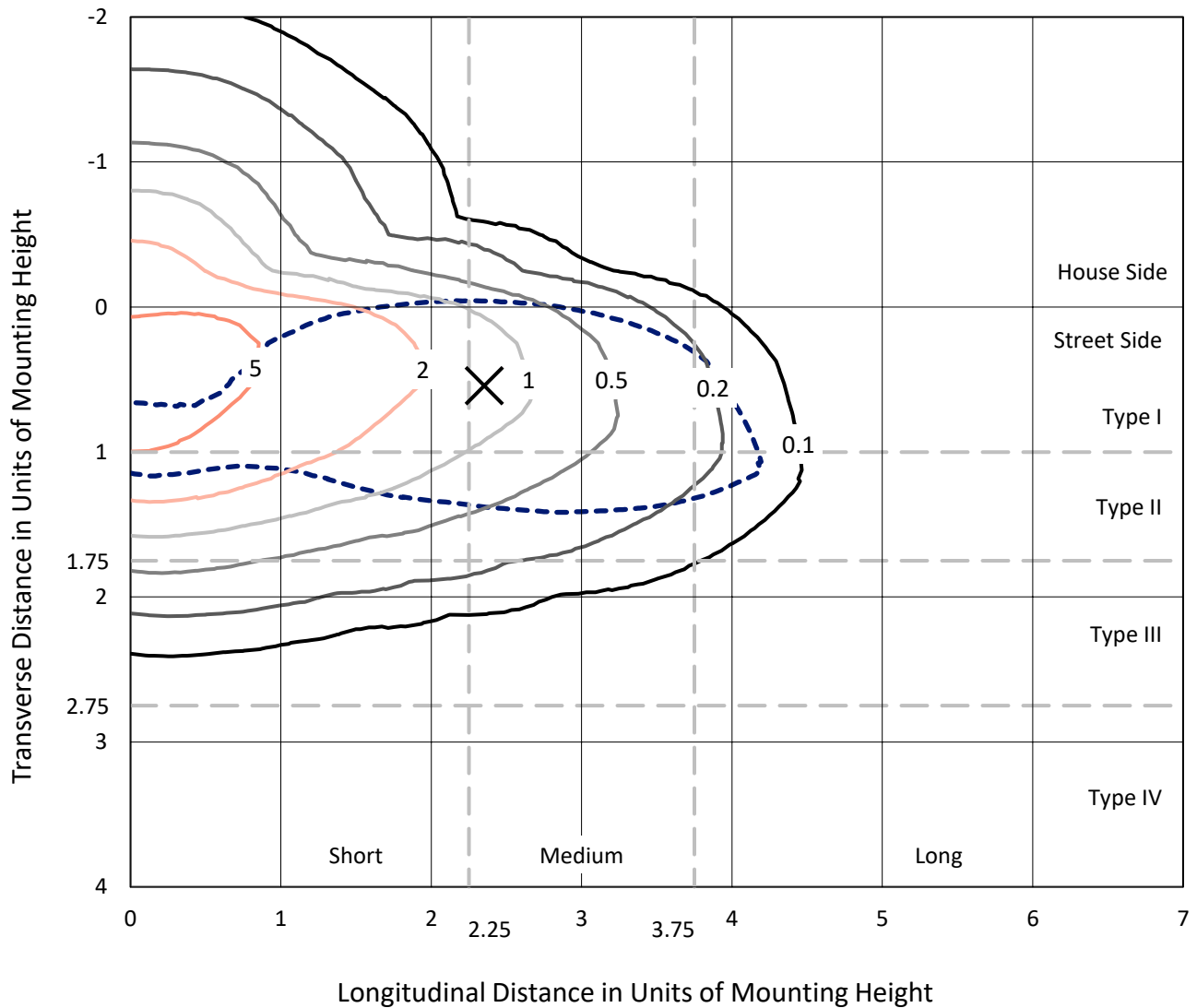
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

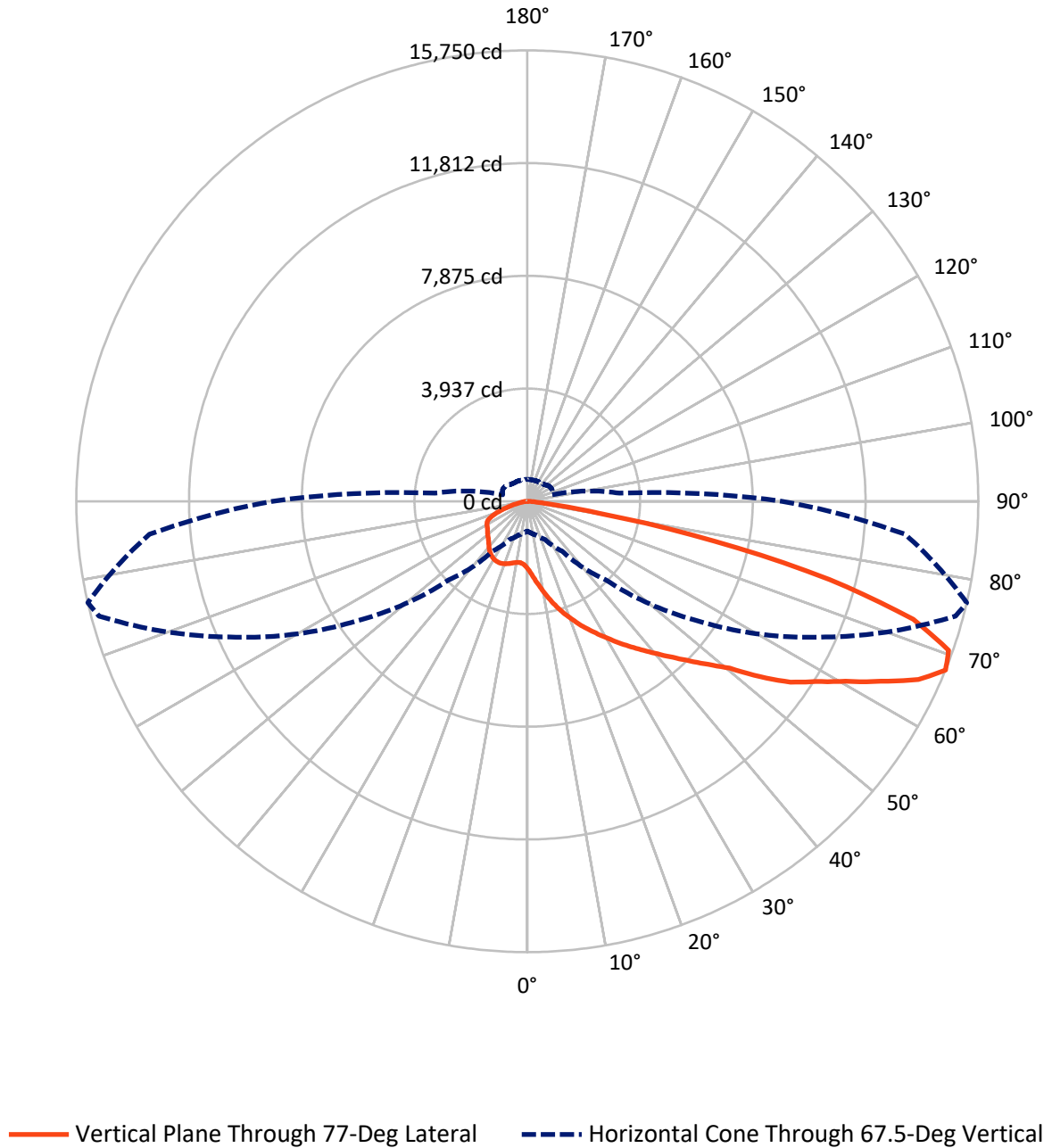
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 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	3797.8	0.0	3797.8
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	16279.2	0.0	16279.2
	% Fixture	81.1	0.0	81.1
Total	Lumens	20077.0	0.0	20077.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.5	1.3
10°-20°	907.1	4.5
20°-30°	1712.7	8.5
30°-40°	2759.2	13.7
40°-50°	3774.0	18.8
50°-60°	4257.1	21.2
60°-70°	3973.5	19.8
70°-80°	2178.1	10.8
80°-90°	262.7	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°	20077.0	100.0
0°-180°	20077.0	100.0

Coefficient of Utilization



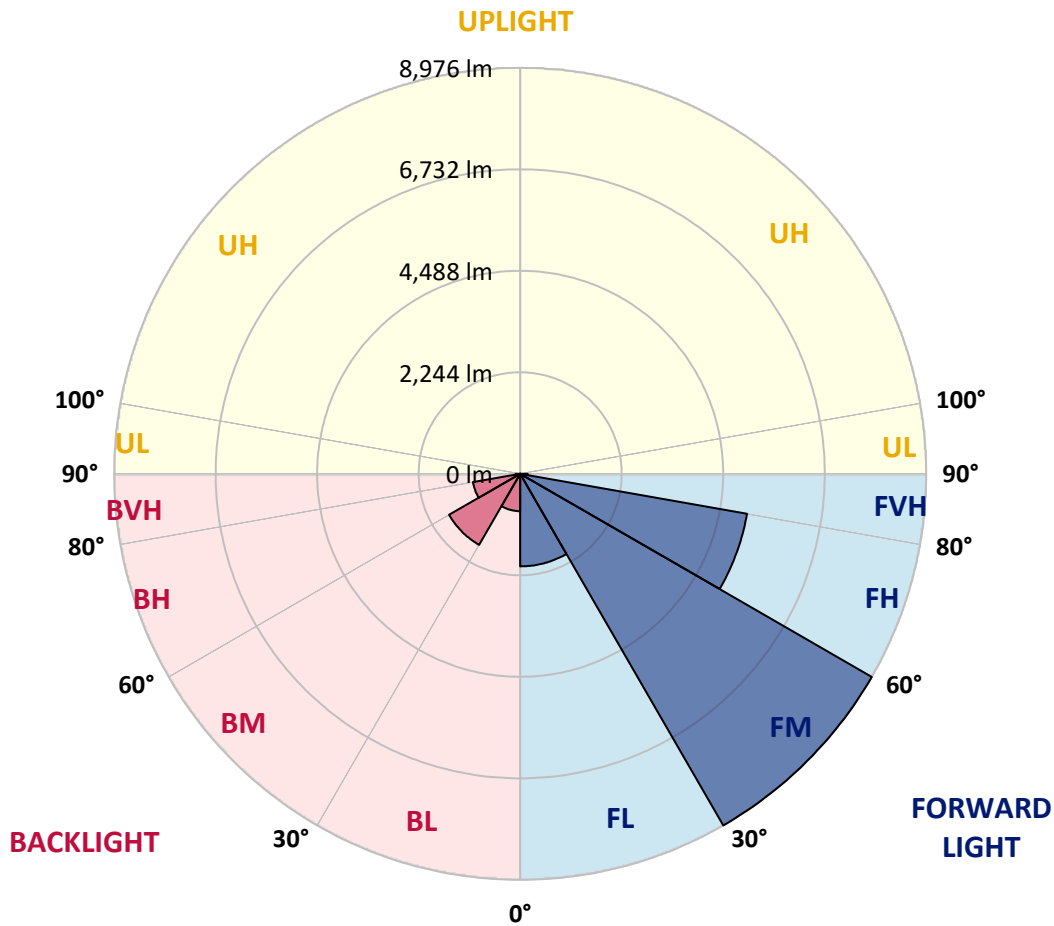
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2046.6	10.2			
FM (30°-60°)	8976.2	44.7			
FH (60°-80°)	5092.1	25.4			G3/7500
FVH (80°-90°)	164.3	0.8			G2/225
BL (0°-30°)	825.7	4.1	B2/1000		
BM (30°-60°)	1814.1	9.0	B2/2500		
BH (60°-80°)	1059.5	5.3	B3/2500		G3/2500
BVH (80°-90°)	98.4	0.5			G1/100
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°	2355.7	2355.7	2355.7	2355.7	2355.7	2355.7	2355.7	2355.7	2355.7	2355.7
2.5°	2949.5	2970.2	2944.3	2944.3	2857.3	2811.7	2724.6	2658.3	2539.1	2518.4
5°	3486.3	3512.2	3476.0	3460.4	3357.8	3263.5	3117.4	2973.3	2760.9	2739.1
7.5°	3901.9	3935.1	3902.9	3886.4	3795.2	3689.5	3518.5	3317.4	3017.9	2975.4
10°	4240.8	4246.0	4235.6	4241.8	4170.3	4083.3	3908.1	3673.9	3299.8	3241.7
12.5°	4432.5	4456.4	4477.1	4514.4	4502.0	4448.1	4290.5	4010.7	3598.3	3523.6
15°	4522.7	4564.1	4610.8	4696.8	4766.2	4779.7	4659.5	4372.4	3901.9	3811.7
17.5°	4554.8	4594.2	4667.8	4792.1	4941.4	5041.9	4988.0	4723.7	4202.5	4098.8
20°	4717.5	4728.9	4773.5	4891.6	5053.3	5220.2	5260.6	5061.6	4499.9	4382.8
22.5°	5065.7	5042.9	5055.4	5109.3	5225.3	5387.0	5479.3	5360.1	4805.6	4670.9
25°	5640.9	5574.6	5508.3	5446.1	5505.2	5596.4	5701.0	5658.5	5125.9	4954.9
27.5°	6367.4	6286.6	6140.5	5936.3	5864.8	5896.9	5943.5	5935.3	5422.3	5249.2
30°	7082.5	6988.2	6814.1	6518.7	6330.1	6245.1	6209.9	6186.1	5744.6	5560.1
32.5°	7653.5	7578.9	7407.9	7077.3	6803.7	6658.6	6541.5	6456.5	6081.4	5896.9
35°	8153.1	8083.6	7887.8	7527.1	7229.7	7075.3	6921.9	6740.5	6431.7	6245.1
37.5°	8609.1	8539.6	8271.2	7896.1	7596.5	7489.8	7353.0	7045.2	6783.0	6606.8
40°	8897.2	8881.6	8630.8	8205.9	7895.0	7842.2	7796.6	7398.6	7172.7	7008.9
42.5°	8970.8	9005.0	8806.0	8456.7	8160.3	8117.8	8224.6	7798.6	7610.0	7453.5
45°	8793.6	8892.0	8761.4	8524.1	8349.0	8326.2	8603.9	8236.0	8094.0	7951.0
47.5°	8344.8	8511.7	8457.8	8424.6	8399.7	8498.2	8937.6	8700.3	8642.2	8517.9
50°	7439.0	7755.1	7849.4	8058.8	8299.2	8631.9	9241.3	9207.1	9282.7	9157.3
52.5°	5873.1	6308.3	6855.5	7379.9	7990.4	8587.3	9575.0	9934.6	10253.8	10185.4
55°	4848.1	5044.0	5464.7	6426.5	7391.3	8399.7	9725.2	10522.2	11217.6	11156.5
57.5°	4060.5	4235.6	4494.7	5297.9	6485.6	7973.8	9818.5	10880.8	11877.8	11871.6
60°	3215.8	3401.3	3666.7	4235.6	5427.4	7238.0	9797.8	11289.1	12720.3	12772.2
62.5°	2262.4	2466.5	2760.9	3291.5	4346.5	6284.5	9375.0	11584.5	13712.1	13853.1
65°	1487.2	1621.9	1843.7	2301.8	3238.6	5058.5	8567.6	11622.8	14773.4	15011.7
67.5°	1042.6	1094.4	1225.0	1473.7	2134.9	3879.1	7281.5	11225.9	15481.2	15749.6
70°	813.5	839.5	905.8	1005.3	1341.1	2608.5	5579.8	10193.7	15329.9	15609.7
72.5°	702.7	727.5	752.4	764.8	899.6	1610.5	3779.6	8523.1	13904.9	14094.6
75°	637.4	643.6	664.3	660.2	686.1	1044.7	2181.5	6209.9	10971.0	10905.7
77.5°	535.8	544.1	578.3	573.1	609.4	714.1	1132.7	4007.6	7112.6	6669.0
80°	453.9	458.1	495.4	489.2	529.6	517.1	578.3	2042.7	3016.9	2555.7
82.5°	157.5	194.8	378.3	389.7	404.2	313.0	333.7	833.2	921.3	705.8
85°	76.7	81.9	192.8	273.6	272.6	157.5	162.7	297.4	290.2	228.0
87.5°	12.4	15.5	22.8	106.7	85.0	41.5	56.0	58.0	60.1	51.8
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°
2355.7	0°	2355.7	2355.7	2355.7	2355.7	2355.7	2355.7	2355.7	2355.7	2355.7	2355.7
2439.6	2.5°	2381.6	2329.7	2220.9	2120.4	2041.6	1966.0	1923.5	1887.2	1866.5	1862.3
2553.6	5°	2445.8	2339.1	2141.1	1974.3	1865.5	1784.6	1742.1	1715.2	1701.7	1693.4
2707.0	7.5°	2538.1	2381.6	2099.7	1910.0	1796.0	1738.0	1716.2	1712.1	1711.0	1712.1
2892.5	10°	2665.5	2451.0	2095.5	1894.5	1799.1	1767.0	1766.0	1767.0	1771.1	1772.2
3094.6	12.5°	2803.4	2522.5	2112.1	1907.9	1838.5	1820.9	1817.8	1816.7	1819.9	1821.9
3298.7	15°	2953.6	2616.8	2140.1	1937.0	1882.0	1863.4	1860.3	1854.1	1853.0	1852.0
3513.3	17.5°	3108.1	2710.1	2171.2	1968.1	1910.0	1884.1	1872.7	1858.2	1846.8	1843.7
3735.1	20°	3264.5	2802.3	2192.9	1983.6	1912.1	1875.8	1853.0	1828.1	1808.5	1797.1
3958.9	22.5°	3431.4	2898.7	2206.4	1979.5	1893.4	1843.7	1802.2	1773.2	1743.2	1723.5
4184.8	25°	3594.1	2982.7	2205.4	1957.7	1857.2	1793.9	1741.1	1703.8	1662.3	1641.6
4418.0	27.5°	3750.6	3058.3	2179.5	1919.3	1805.3	1734.9	1671.7	1627.1	1586.7	1567.0
4653.3	30°	3912.3	3121.5	2139.1	1863.4	1744.2	1666.5	1597.0	1558.7	1522.4	1503.8
4902.0	32.5°	4072.9	3179.6	2082.1	1793.9	1673.7	1599.1	1530.7	1495.5	1473.7	1473.7
5169.4	35°	4242.9	3220.0	2006.4	1713.1	1599.1	1527.6	1473.7	1453.0	1450.9	1438.5
5452.3	37.5°	4422.2	3245.9	1914.2	1630.2	1525.5	1458.2	1441.6	1416.7	1396.0	1369.0
5763.2	40°	4610.8	3271.8	1803.3	1544.2	1447.8	1410.5	1403.2	1370.1	1311.0	1244.7
6115.6	42.5°	4839.8	3289.4	1688.2	1458.2	1365.9	1353.5	1363.9	1306.9	1212.5	1162.8
6540.5	45°	5105.1	3318.4	1582.5	1373.2	1282.0	1282.0	1325.5	1250.9	1173.2	1142.1
7025.5	47.5°	5449.2	3385.8	1484.1	1279.9	1204.3	1225.0	1240.5	1183.5	1140.0	1101.7
7616.2	50°	5946.7	3547.5	1382.5	1185.6	1145.2	1186.6	1164.9	1131.7	1080.9	1049.8
8555.2	52.5°	6564.3	3642.8	1292.3	1100.6	1094.4	1135.9	1104.8	1073.7	1035.3	993.9
9267.2	55°	6985.1	3660.4	1216.7	1038.4	1060.2	1056.1	1044.7	1016.7	995.9	941.0
9969.8	57.5°	7455.6	3695.7	1154.5	1001.1	1038.4	992.8	988.7	964.9	937.9	900.6
10826.9	60°	8018.3	3750.6	1100.6	986.6	1019.8	951.4	930.7	921.3	894.4	875.7
11858.1	62.5°	8631.9	3800.3	1045.7	988.7	998.0	911.0	879.9	876.8	860.2	854.0
12826.0	65°	9050.6	3664.6	977.3	986.6	963.8	869.5	830.1	829.1	815.6	813.5
13245.8	67.5°	8904.4	3234.5	885.1	957.6	928.6	828.1	784.5	780.4	762.8	763.8
12807.4	70°	8172.8	2621.0	757.6	886.1	885.1	790.7	736.9	723.4	699.5	703.7
11135.7	72.5°	6800.6	1942.1	586.6	766.9	815.6	756.5	681.9	660.2	630.1	634.3
8220.4	75°	4911.3	1320.3	427.0	583.5	709.9	716.1	628.0	590.7	554.5	560.7
4575.5	77.5°	2513.2	748.3	314.0	402.1	557.6	650.8	579.3	529.6	521.3	579.3
1319.3	80°	819.8	375.2	217.6	281.9	365.8	532.7	507.8	450.8	448.7	462.2
276.7	82.5°	244.6	158.6	139.9	185.5	202.1	408.3	438.4	341.0	293.3	308.8
92.2	85°	83.9	76.7	79.8	92.2	96.4	239.4	306.8	225.9	213.5	235.3
20.7	87.5°	19.7	26.9	22.8	20.7	20.7	58.0	119.2	94.3	130.6	87.1
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>
2355.7
1862.3
1692.4
1715.2
1773.2
1823.0
1850.9
1846.8
1801.2
1724.5
1641.6
1565.9
1502.7
1474.7
1435.4
1364.9
1235.3
1163.8
1147.3
1100.6
1046.7
985.6
942.1
888.2
880.9
854.0
812.5
763.8
707.8
633.2
562.7
571.0
396.9
319.2
232.1
83.9
0.0

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