

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: P941582

Luminaire Tested: **GALN-SB5A-940-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941582
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5A-940-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16277 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G3

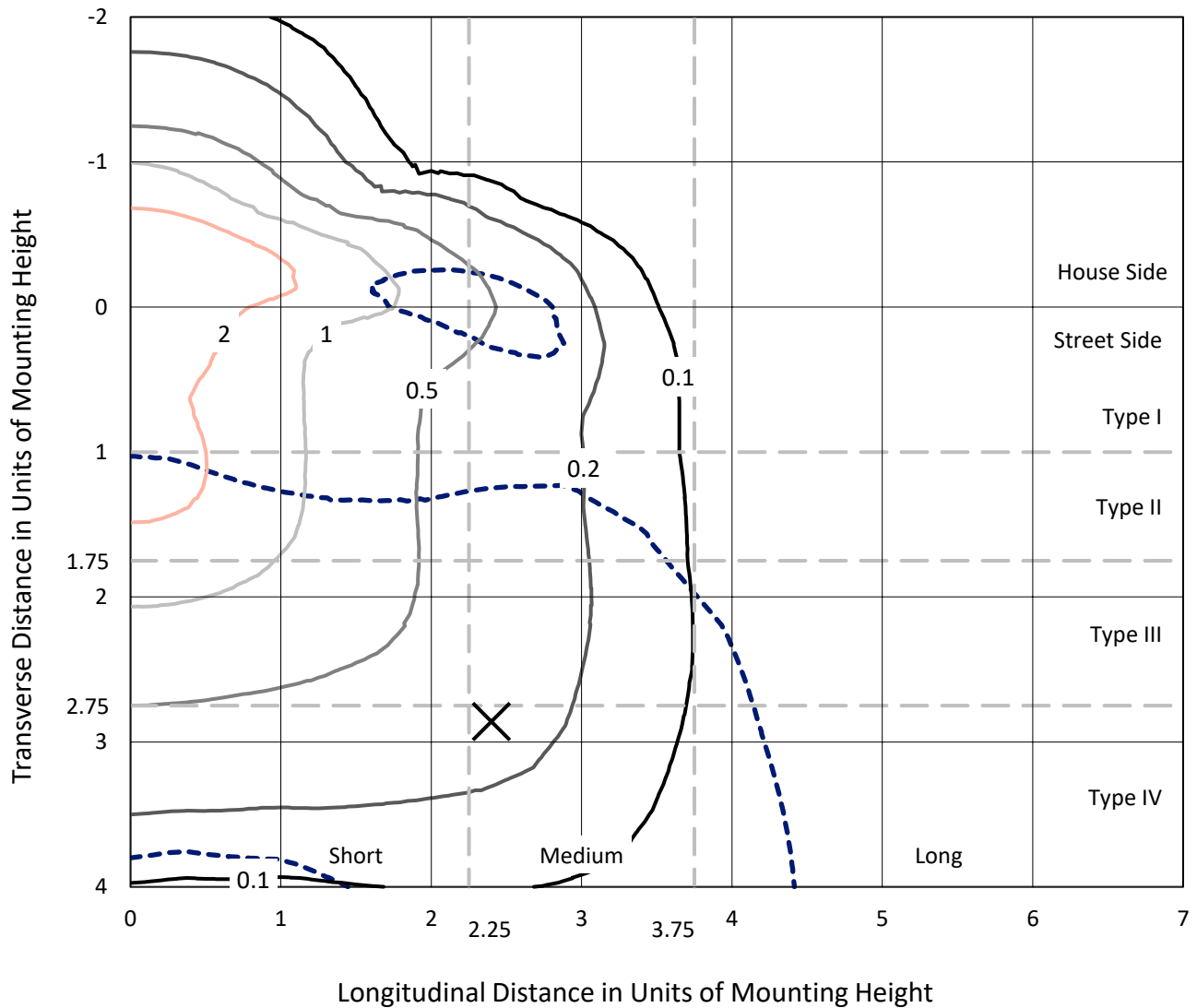
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P941582
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Iso-Footcandle Lines of Horizontal Illumination

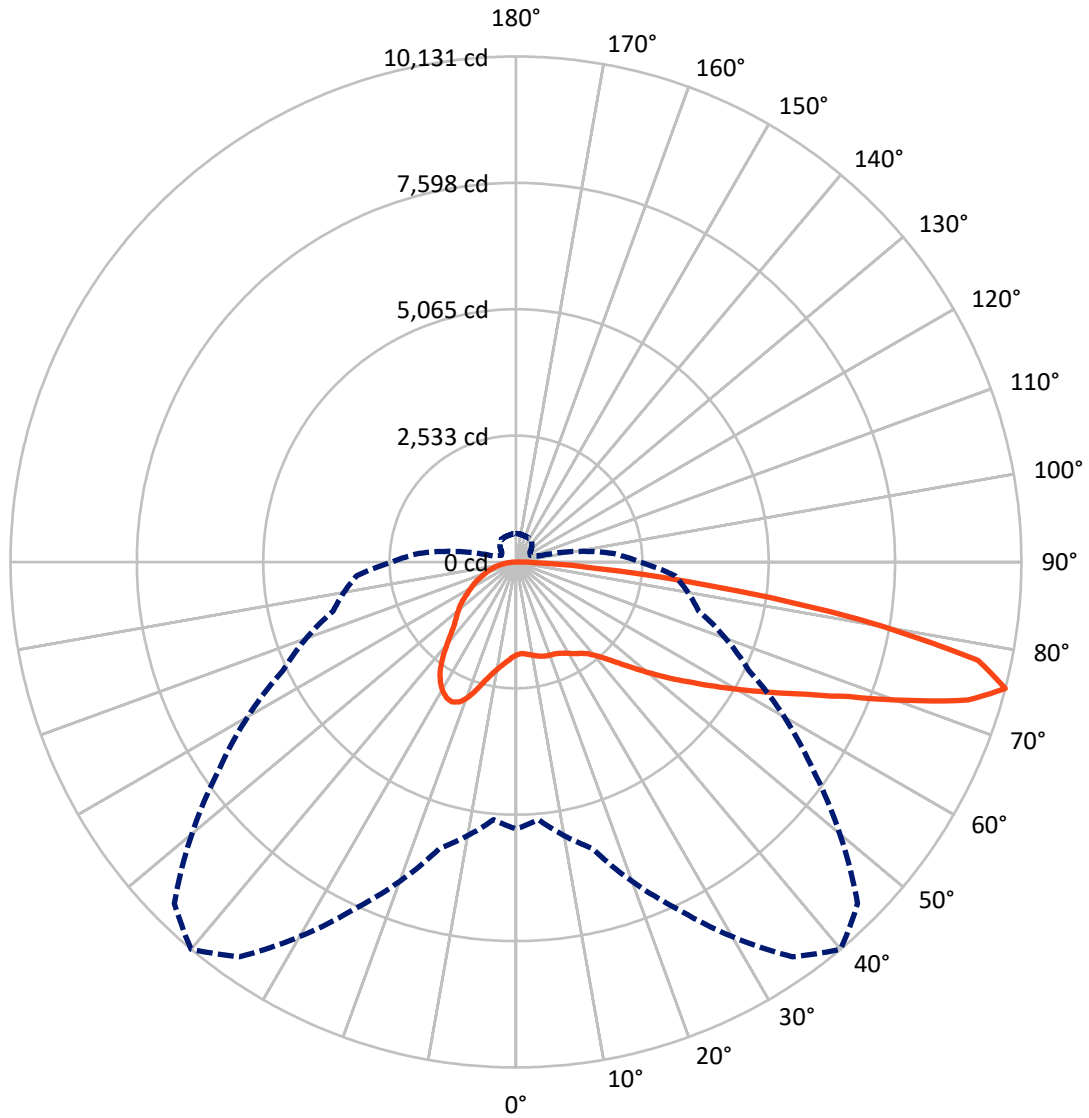
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type IV - Medium - N/A

REPORT NUMBER: P941582
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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5043.2	0.0	5043.2
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	11233.8	0.0	11233.8
	% Fixture	69.0	0.0	69.0
Total	Lumens	16277.0	0.0	16277.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.8	1.1
10°-20°	623.8	3.8
20°-30°	1139.0	7.0
30°-40°	1615.4	9.9
40°-50°	2181.3	13.4
50°-60°	2934.4	18.0
60°-70°	3724.4	22.9
70°-80°	3380.2	20.8
80°-90°	492.7	3.0
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°	16277.0	100.0
0°-180°	16277.0	100.0



REPORT NUMBER: P941582

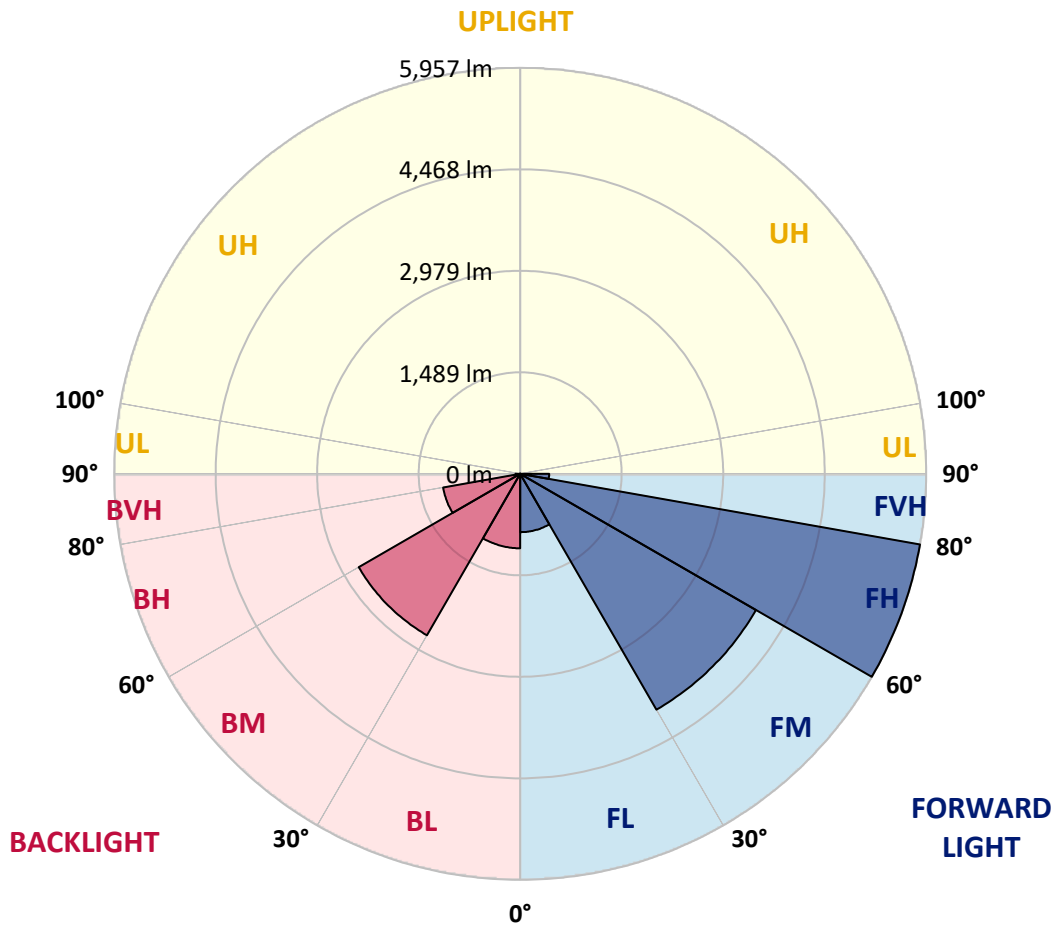
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	856.2	5.3			
FM (30°-60°)	3995.6	24.5			
FH (60°-80°)	5957.1	36.6			G3/7500
FVH (80°-90°)	424.9	2.6			G3/500
BL (0°-30°)	1092.4	6.7	B3/2500		
BM (30°-60°)	2735.5	16.8	B3/5000		
BH (60°-80°)	1147.5	7.0	B3/2500		G3/2500
BVH (80°-90°)	67.8	0.4			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 IV Medium



REPORT NUMBER: P941582
 CATALOG NUMBER: GALN-SB5A-940-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	1861.3	1861.3	1861.3	1861.3	1861.3	1861.3	1861.3	1861.3	1861.3	1861.3
2.5°	1832.8	1843.2	1840.6	1837.1	1837.1	1838.0	1837.1	1843.2	1849.2	1855.3
5°	1851.8	1862.2	1857.0	1852.7	1849.2	1848.3	1845.8	1844.9	1848.3	1856.1
7.5°	1888.9	1899.3	1891.5	1883.7	1876.8	1873.4	1869.9	1864.7	1862.2	1866.5
10°	1930.4	1940.7	1931.2	1917.4	1906.2	1901.9	1898.4	1893.2	1889.8	1892.4
12.5°	1971.8	1982.2	1969.2	1950.2	1935.5	1933.0	1928.6	1926.9	1926.0	1925.2
15°	2010.6	2019.3	2002.9	1980.4	1964.9	1960.6	1956.3	1958.9	1963.2	1968.3
17.5°	2040.9	2049.5	2025.3	1996.0	1981.3	1979.6	1977.0	1985.6	1997.7	2010.6
20°	2068.5	2077.1	2046.0	2006.3	1989.1	1989.1	1989.9	2008.1	2025.3	2044.3
22.5°	2107.3	2114.2	2076.3	2021.9	1996.8	1998.6	2005.5	2023.6	2045.2	2071.1
25°	2165.2	2170.4	2123.7	2051.2	2022.7	2027.9	2034.0	2042.6	2063.3	2093.5
27.5°	2258.4	2262.7	2201.4	2103.0	2059.9	2068.5	2077.1	2071.1	2080.6	2106.5
30°	2389.6	2392.2	2314.5	2184.2	2122.9	2127.2	2128.9	2103.9	2085.8	2106.5
32.5°	2545.0	2544.2	2451.8	2282.6	2194.5	2190.2	2175.5	2126.3	2084.0	2102.2
35°	2785.9	2776.4	2657.3	2420.7	2275.7	2248.9	2214.4	2151.4	2092.7	2097.8
37.5°	3184.8	3155.4	2990.5	2646.9	2396.5	2328.3	2277.4	2191.9	2111.7	2096.1
40°	3634.5	3597.4	3416.1	2956.8	2577.8	2468.2	2386.2	2249.8	2142.7	2103.9
42.5°	4168.1	4115.4	3920.3	3322.0	2807.5	2648.6	2525.2	2323.2	2188.5	2128.9
45°	4823.3	4753.4	4477.1	3733.8	3096.7	2885.2	2720.3	2434.5	2258.4	2177.3
47.5°	5485.5	5502.7	5109.9	4205.2	3443.7	3177.0	2964.6	2602.0	2360.3	2255.0
50°	6189.1	6201.2	5739.3	4727.5	3837.4	3506.8	3239.1	2789.4	2501.9	2365.5
52.5°	6738.1	6739.9	6310.8	5274.0	4247.5	3869.4	3535.3	3003.5	2665.9	2512.2
55°	7081.7	7077.4	6711.4	5791.1	4718.9	4250.1	3863.3	3246.9	2866.2	2684.9
57.5°	7331.2	7318.3	6987.6	6235.7	5221.3	4699.9	4234.5	3523.2	3102.7	2890.4
60°	7426.2	7418.4	7175.0	6619.9	5749.6	5197.1	4662.7	3832.2	3371.2	3133.0
62.5°	7462.5	7477.1	7358.9	6991.9	6315.1	5747.9	5133.2	4201.7	3673.4	3407.5
65°	7590.2	7617.0	7592.8	7478.9	6954.0	6392.8	5757.4	4641.2	4003.2	3701.9
67.5°	7843.2	7869.9	7880.3	8061.6	7734.4	7196.6	6536.1	5188.5	4389.1	4007.5
70°	7837.1	7829.4	8012.4	8525.2	8711.7	8309.4	7585.9	5861.9	4849.2	4261.3
72.5°	7133.5	7071.4	7503.9	8520.0	9524.9	9471.4	8867.9	6730.4	5246.3	4292.4
75°	5351.7	5185.9	5949.9	7678.3	9660.4	10130.9	9682.9	7269.1	5152.2	3792.5
77.5°	2288.6	2122.0	3022.4	5684.0	8646.1	9470.5	8935.3	6341.9	4112.8	2507.9
80°	599.1	598.3	913.4	2577.0	5880.0	6993.7	6135.5	4095.5	2349.9	896.1
82.5°	247.8	241.7	335.8	1002.3	2873.1	3924.6	3202.9	1826.8	848.6	242.6
85°	92.4	91.5	163.2	346.2	1013.5	1618.7	1171.5	467.1	211.5	118.3
87.5°	25.9	25.0	35.4	120.0	246.9	374.7	200.3	76.8	59.6	46.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P941582
 CATALOG NUMBER: GALN-SB5A-940-U-SL4

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1861.3	0°	1861.3	1861.3	1861.3	1861.3	1861.3	1861.3	1861.3	1861.3	1861.3	1861.3
1864.7	2.5°	1867.3	1871.7	1879.4	1885.5	1893.2	1901.9	1914.0	1921.7	1929.5	1934.7
1869.1	5°	1875.1	1884.6	1904.5	1924.3	1947.6	1969.2	1994.2	2012.4	2027.1	2031.4
1884.6	7.5°	1892.4	1907.9	1941.6	1975.3	2012.4	2047.8	2084.0	2115.1	2140.1	2149.6
1912.2	10°	1922.6	1943.3	1990.8	2038.3	2087.5	2141.9	2188.5	2233.4	2268.8	2283.5
1945.0	12.5°	1960.6	1986.5	2048.6	2114.2	2182.4	2257.6	2318.0	2373.2	2417.3	2437.1
1990.8	15°	2009.8	2043.5	2122.9	2210.9	2311.1	2415.5	2492.4	2553.7	2602.9	2627.1
2038.3	17.5°	2063.3	2108.2	2208.3	2341.3	2484.6	2621.9	2711.7	2756.5	2807.5	2830.8
2082.3	20°	2115.1	2170.4	2313.7	2507.1	2697.8	2843.7	2916.3	2928.3	2931.8	2934.4
2123.7	22.5°	2168.6	2242.9	2445.8	2716.0	2920.6	3021.6	3031.9	2980.1	2907.6	2874.0
2164.3	25°	2227.3	2325.8	2618.4	2946.5	3112.2	3124.3	3044.9	2918.9	2781.6	2718.6
2197.1	27.5°	2284.3	2421.6	2825.6	3166.6	3250.4	3144.2	2973.2	2794.5	2628.8	2562.3
2220.4	30°	2341.3	2531.2	3054.4	3359.1	3313.4	3095.0	2860.1	2660.7	2494.1	2424.2
2241.2	32.5°	2399.1	2659.0	3317.7	3498.1	3302.2	2990.5	2719.4	2510.5	2363.7	2290.4
2259.3	35°	2464.8	2816.1	3567.2	3574.1	3227.1	2836.8	2533.8	2330.9	2203.2	2144.5
2280.9	37.5°	2550.2	3015.5	3787.3	3593.1	3095.8	2611.5	2303.3	2118.6	2013.2	1986.5
2312.8	40°	2656.4	3255.5	3955.7	3562.9	2901.6	2337.8	2051.2	1903.6	1844.0	1850.1
2356.0	42.5°	2794.5	3524.0	4074.0	3485.2	2631.4	2055.5	1830.2	1764.6	1793.1	1817.3
2420.7	45°	2974.1	3802.9	4147.3	3353.1	2325.8	1816.4	1699.9	1715.4	1737.0	1739.6
2525.2	47.5°	3203.7	4085.2	4195.7	3153.7	2014.1	1648.1	1617.0	1620.4	1616.1	1598.0
2681.4	50°	3490.4	4359.7	4238.9	2889.5	1749.1	1542.7	1501.3	1489.2	1429.6	1370.9
2889.5	52.5°	3816.7	4611.8	4257.0	2561.4	1542.7	1454.7	1387.3	1311.4	1200.0	1181.9
3151.1	55°	4179.3	4844.9	4210.4	2158.3	1369.2	1341.6	1239.7	1148.2	1136.1	1120.6
3495.5	57.5°	4612.7	5096.1	4115.4	1708.5	1191.4	1209.5	1110.2	1120.6	1099.0	1074.8
3938.4	60°	5086.6	5356.0	3948.8	1298.4	1007.5	1044.6	1076.5	1075.7	1069.6	1049.8
4405.5	62.5°	5513.1	5526.9	3620.7	994.5	846.0	916.8	1004.0	1003.2	998.0	986.8
4893.2	65°	5766.9	5501.0	3073.4	783.0	713.1	811.5	905.6	912.5	913.4	912.5
5260.1	67.5°	5722.0	5198.0	2322.3	623.3	603.5	704.5	808.1	817.6	824.5	826.2
5306.8	70°	5214.4	4532.4	1514.2	497.3	505.9	610.4	715.7	725.2	731.2	738.1
4604.9	72.5°	4064.5	3332.4	866.8	402.3	420.4	529.2	624.2	635.4	638.8	651.8
3204.6	75°	2476.8	1959.7	467.9	316.8	345.3	452.4	533.5	546.5	552.5	568.1
1573.8	77.5°	1177.6	848.6	266.8	246.9	278.0	369.5	450.6	465.3	448.9	457.6
434.2	80°	398.0	315.1	168.3	188.2	212.4	288.3	360.9	375.5	341.0	339.3
144.2	82.5°	139.0	127.8	107.1	125.2	137.3	206.3	272.8	291.8	253.8	252.9
64.7	85°	54.4	51.8	59.6	68.2	82.0	126.9	179.6	189.1	156.3	126.0
19.0	87.5°	11.2	12.1	14.7	15.5	25.0	44.0	64.7	79.4	63.0	53.5
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>
1861.3
1931.2
2033.1
2150.5
2284.3
2437.1
2625.3
2829.9
2941.3
2883.5
2728.1
2570.1
2431.9
2299.9
2157.4
2005.5
1870.8
1839.7
1756.8
1611.8
1378.7
1187.9
1123.2
1070.5
1042.9
982.4
912.5
827.9
741.6
657.0
569.8
450.6
335.8
240.9
124.3
49.2
0.0

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