

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: P941756

Luminaire Tested: **GALN-SB5B-940-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941756
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5B-940-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16166 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

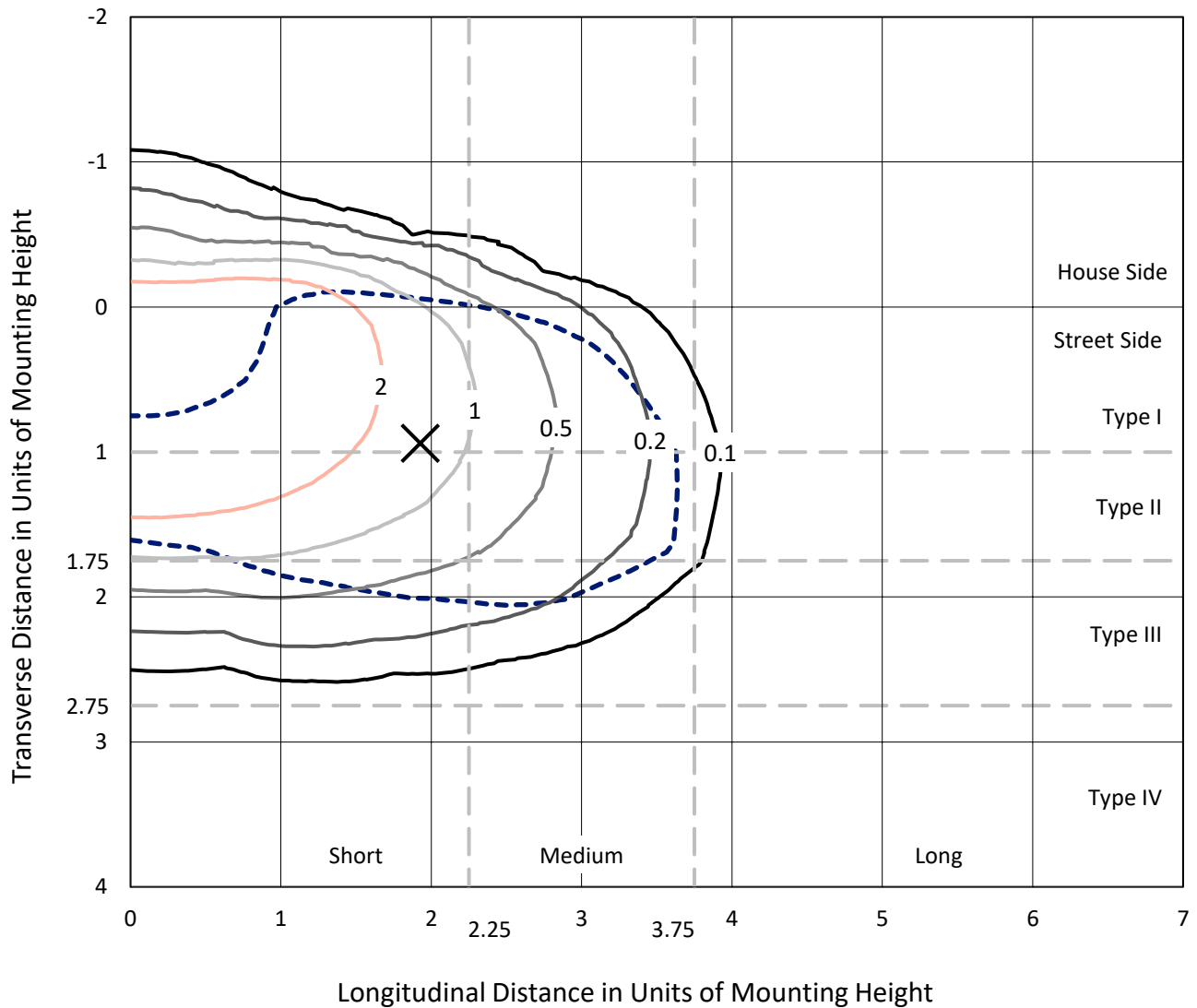
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

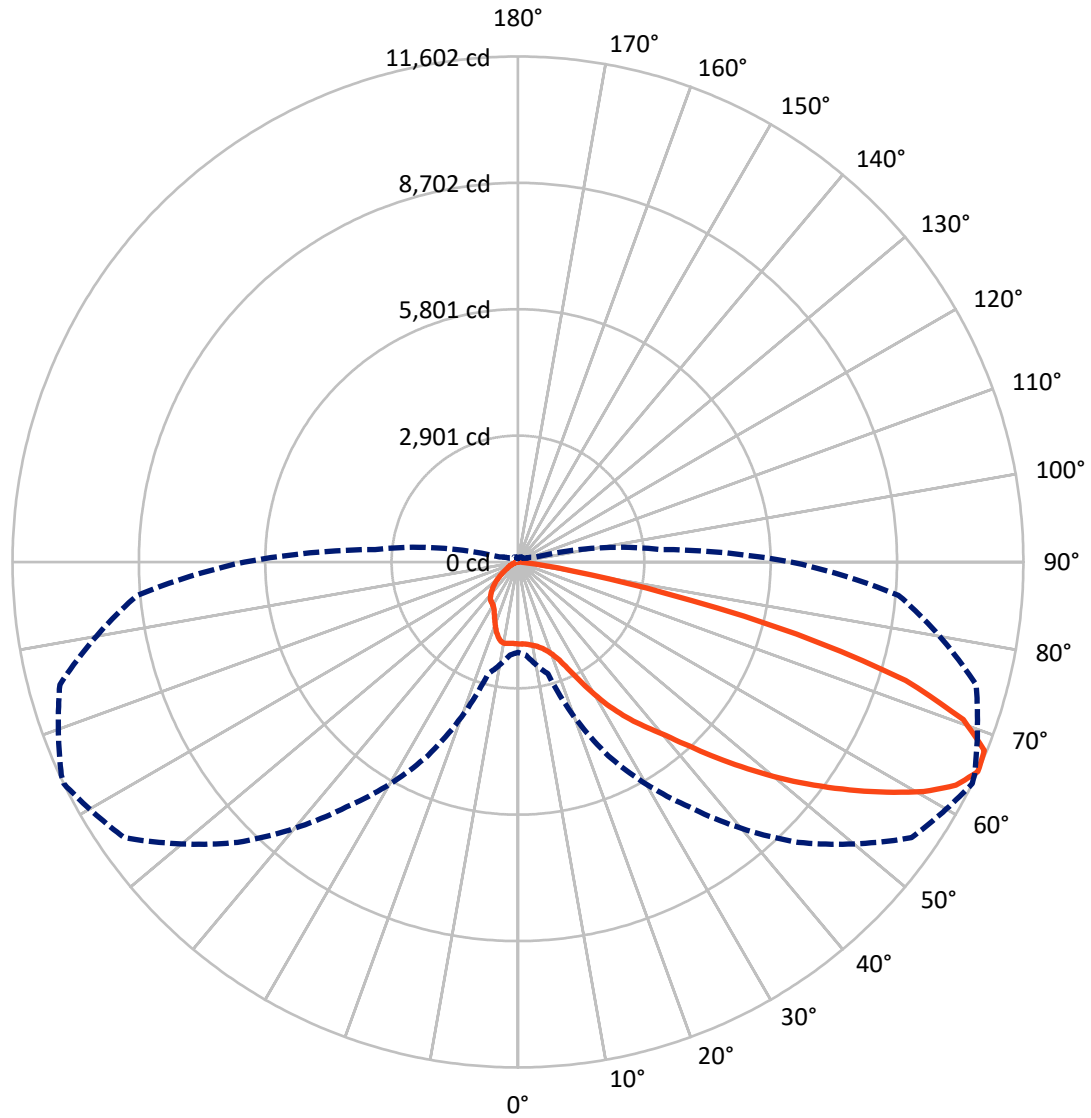
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2161.9	0.0	2161.9
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	14004.1	0.0	14004.1
	% Fixture	86.6	0.0	86.6
Total	Lumens	16166.0	0.0	16166.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.5	1.1
10°-20°	470.5	2.9
20°-30°	891.6	5.5
30°-40°	1804.1	11.2
40°-50°	3073.4	19.0
50°-60°	4179.5	25.9
60°-70°	3924.8	24.3
70°-80°	1572.4	9.7
80°-90°	76.2	0.5
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°	16166.0	100.0
0°-180°	16166.0	100.0

Coefficient of Utilization



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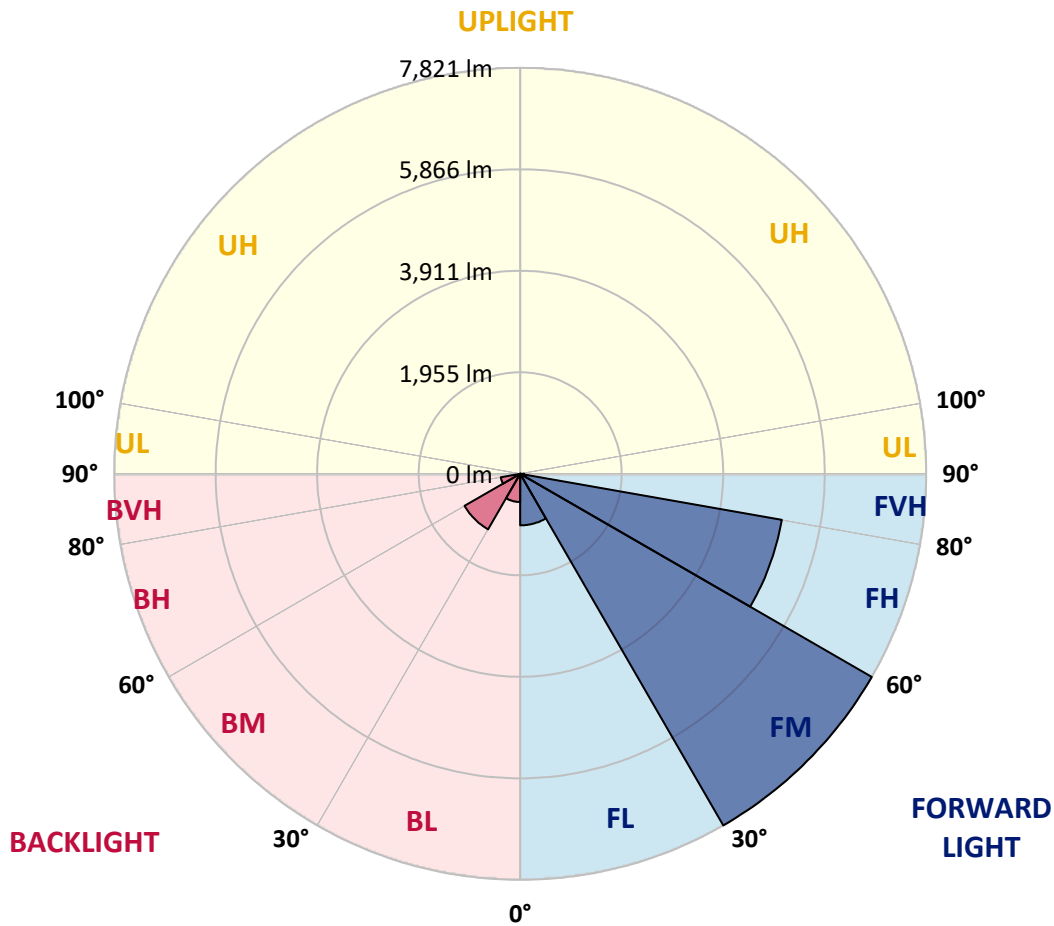
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	992.8	6.1			
FM (30°-60°)	7821.1	48.4			
FH (60°-80°)	5117.8	31.7			G3/7500
FVH (80°-90°)	72.5	0.4			G1/100
BL (0°-30°)	542.8	3.4	B2/1000		
BM (30°-60°)	1235.9	7.6	B2/2500		
BH (60°-80°)	379.4	2.3	B1/500		G1/500
BVH (80°-90°)	3.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	1880.3	1880.3	1880.3	1880.3	1880.3	1880.3	1880.3	1880.3	1880.3	1880.3
2.5°	1873.8	1886.8	1883.5	1880.3	1879.2	1881.4	1882.4	1881.4	1881.4	1881.4
5°	1838.0	1848.8	1848.8	1856.4	1867.3	1880.3	1890.0	1892.2	1894.4	1897.6
7.5°	1769.7	1778.4	1784.9	1809.8	1836.9	1871.6	1900.9	1916.0	1918.2	1930.1
10°	1723.1	1734.0	1744.8	1770.8	1809.8	1861.9	1911.7	1948.5	1954.0	1982.1
12.5°	1721.0	1731.8	1745.9	1774.1	1819.6	1874.9	1935.5	1988.6	1998.4	2039.6
15°	1743.7	1756.7	1769.7	1804.4	1853.2	1920.4	1985.4	2051.5	2061.3	2119.8
17.5°	1790.3	1807.7	1817.4	1852.1	1904.1	1978.9	2064.5	2140.4	2149.0	2217.3
20°	1882.4	1903.0	1906.3	1934.5	1985.4	2065.6	2167.5	2261.7	2272.6	2350.6
22.5°	2073.2	2102.4	2076.4	2090.5	2136.0	2216.2	2326.8	2446.0	2461.2	2550.0
25°	2409.1	2450.3	2383.1	2359.3	2378.8	2462.2	2601.0	2751.6	2768.9	2840.5
27.5°	3069.1	3016.0	2914.2	2814.4	2755.9	2803.6	2959.7	3146.1	3167.7	3237.1
30°	3794.1	3747.5	3609.9	3388.8	3250.1	3242.5	3386.7	3594.7	3619.7	3685.8
32.5°	4520.2	4475.8	4326.3	4054.2	3813.7	3694.4	3794.1	4025.0	4038.0	4080.2
35°	5234.4	5188.9	5039.4	4760.8	4465.0	4194.0	4174.5	4434.6	4439.0	4483.4
37.5°	5952.9	5915.0	5755.7	5482.6	5191.1	4817.2	4636.2	4822.6	4828.0	4871.4
40°	6465.5	6481.8	6372.3	6161.0	5910.7	5502.1	5154.2	5235.5	5203.0	5275.6
42.5°	6905.5	6938.0	6842.7	6736.5	6591.3	6231.5	5795.8	5781.7	5729.7	5768.7
45°	7285.9	7313.0	7227.4	7202.5	7199.2	6946.7	6497.0	6412.4	6339.8	6332.2
47.5°	7425.7	7477.7	7514.6	7598.0	7760.6	7654.4	7222.0	7090.9	7009.6	6950.0
50°	7478.8	7534.1	7659.8	7902.6	8287.3	8332.8	7943.7	7796.4	7696.7	7588.3
52.5°	7407.3	7505.9	7675.0	8083.6	8641.7	8876.8	8636.3	8507.3	8393.5	8216.9
55°	6985.7	7084.4	7430.1	8081.4	8818.3	9258.3	9290.8	9233.4	9105.5	8827.0
57.5°	6097.1	6243.4	6790.7	7806.1	8815.1	9586.7	9932.4	9973.6	9830.5	9431.7
60°	4866.0	5064.3	5731.9	7196.0	8543.1	9764.4	10494.9	10700.8	10549.0	10027.8
62.5°	3395.3	3625.1	4256.9	6240.1	7921.0	9636.5	10905.6	11286.0	11171.1	10561.0
65°	2071.0	2144.7	2654.1	4910.4	6863.3	9101.2	11032.4	11602.4	11564.5	10887.2
67.5°	1379.6	1441.4	1587.7	3367.2	5327.6	8031.5	10728.9	11547.2	11558.0	10834.1
70°	831.2	884.3	979.7	1958.3	3452.8	6357.2	9789.3	10842.7	10905.6	10124.2
72.5°	342.5	378.2	464.9	887.6	1788.2	4034.7	7795.3	9309.3	9455.6	8512.7
75°	194.0	212.4	273.1	445.4	776.0	1880.3	4721.8	6608.6	6824.3	5867.3
77.5°	129.0	137.6	176.6	288.3	436.7	641.6	2017.9	3443.0	3854.8	3204.6
80°	86.7	94.3	121.4	192.9	283.9	275.3	642.7	1275.6	1569.2	1101.1
82.5°	58.5	59.6	86.7	126.8	179.9	133.3	189.7	396.6	498.5	318.6
85°	33.6	32.5	63.9	73.7	80.2	55.3	57.4	119.2	156.1	134.4
87.5°	4.3	6.5	24.9	19.5	10.8	11.9	11.9	20.6	30.3	32.5
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°
1880.3	0°	1880.3	1880.3	1880.3	1880.3	1880.3	1880.3	1880.3	1880.3	1880.3	1880.3
1882.4	2.5°	1882.4	1881.4	1878.1	1874.9	1867.3	1862.9	1865.1	1862.9	1861.9	1862.9
1896.5	5°	1896.5	1893.3	1884.6	1873.8	1858.6	1840.2	1828.3	1810.9	1794.7	1784.9
1934.5	7.5°	1934.5	1931.2	1919.3	1888.9	1840.2	1763.2	1692.8	1631.0	1584.4	1557.3
1995.1	10°	1995.1	1989.7	1971.3	1904.1	1776.2	1608.3	1468.5	1352.5	1276.6	1240.9
2066.7	12.5°	2066.7	2060.2	2027.7	1890.0	1654.9	1392.6	1199.7	1070.7	1000.3	968.9
2149.0	15°	2151.2	2142.5	2078.6	1822.8	1478.2	1154.2	977.5	881.1	835.6	807.4
2254.2	17.5°	2256.3	2241.2	2116.5	1722.0	1286.4	972.1	841.0	768.4	728.3	701.2
2391.8	20°	2392.9	2368.0	2146.9	1601.8	1109.7	857.2	748.9	688.2	657.8	634.0
2586.9	22.5°	2583.6	2547.9	2183.7	1471.7	985.1	778.1	680.6	636.2	611.2	584.1
2858.9	25°	2819.9	2777.6	2229.2	1351.4	899.5	709.8	630.7	593.9	564.6	533.2
3215.4	27.5°	3150.4	3074.5	2283.4	1252.8	825.8	651.3	585.2	544.0	510.4	484.4
3619.7	30°	3518.9	3394.2	2331.1	1193.2	758.6	597.1	525.6	484.4	453.0	434.6
3982.7	32.5°	3867.8	3698.8	2362.5	1167.2	697.9	535.4	460.6	416.2	392.3	386.9
4338.2	35°	4197.3	3974.0	2359.3	1142.3	643.7	473.6	396.6	351.1	332.7	336.0
4720.7	37.5°	4576.6	4267.7	2336.5	1103.2	599.3	417.2	341.4	301.3	285.0	286.1
5185.7	40°	5017.7	4606.9	2322.4	1029.5	550.5	365.2	295.9	263.3	251.4	247.1
5675.5	42.5°	5488.0	4935.3	2324.6	946.1	489.8	318.6	264.4	237.3	226.5	223.2
6220.6	45°	5960.5	5248.5	2327.9	859.4	425.9	282.9	241.7	218.9	212.4	208.1
6773.3	47.5°	6404.9	5515.1	2267.2	766.2	363.0	255.8	223.2	208.1	202.7	197.2
7328.2	50°	6818.8	5692.8	2120.9	657.8	313.2	234.1	209.2	198.3	192.9	187.5
7831.0	52.5°	7140.7	5721.0	1879.2	546.2	278.5	217.8	200.5	190.7	184.2	178.8
8237.4	55°	7283.8	5544.4	1535.6	442.2	251.4	203.7	191.8	182.1	174.5	169.1
8557.1	57.5°	7246.9	5172.6	1197.5	355.5	225.4	189.7	181.0	174.5	165.8	157.1
8816.2	60°	7065.9	4675.2	902.7	295.9	201.6	174.5	169.1	163.6	151.7	138.7
8915.9	62.5°	6752.7	4049.9	643.7	244.9	175.6	157.1	155.0	150.6	133.3	109.5
8768.5	65°	6273.7	3290.2	433.5	203.7	150.6	137.6	138.7	131.1	108.4	81.3
8228.8	67.5°	5573.6	2405.9	277.4	166.9	125.7	114.9	116.0	111.6	92.1	69.4
7205.7	70°	4681.7	1593.1	181.0	126.8	100.8	88.9	95.4	96.5	78.0	56.4
5530.3	72.5°	3432.2	940.7	126.8	94.3	73.7	61.8	78.0	80.2	62.9	42.3
3327.1	75°	1956.1	446.5	95.4	68.3	45.5	43.3	60.7	60.7	43.3	28.2
1440.3	77.5°	821.5	186.4	67.2	44.4	26.0	24.9	41.2	37.9	21.7	13.0
351.1	80°	237.3	83.4	35.8	21.7	10.8	9.8	16.3	11.9	5.4	2.2
133.3	82.5°	93.2	36.8	14.1	8.7	4.3	4.3	2.2	0.0	0.0	0.0
75.9	85°	55.3	15.2	6.5	3.3	1.1	0.0	0.0	0.0	0.0	0.0
16.3	87.5°	14.1	3.3	2.2	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>
1880.3
1867.3
1787.1
1558.4
1237.6
965.6
808.5
699.0
629.6
579.8
529.9
479.0
431.3
390.1
336.0
290.4
246.0
222.2
208.1
197.2
187.5
177.7
168.0
156.1
136.6
107.3
79.1
66.1
54.2
40.1
26.0
13.0
2.2
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