

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: P941724

Luminaire Tested: **GALN-SB5B-927-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941724
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB5B-927-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12643 lumens
Efficiency: N/A
Efficacy: 69.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

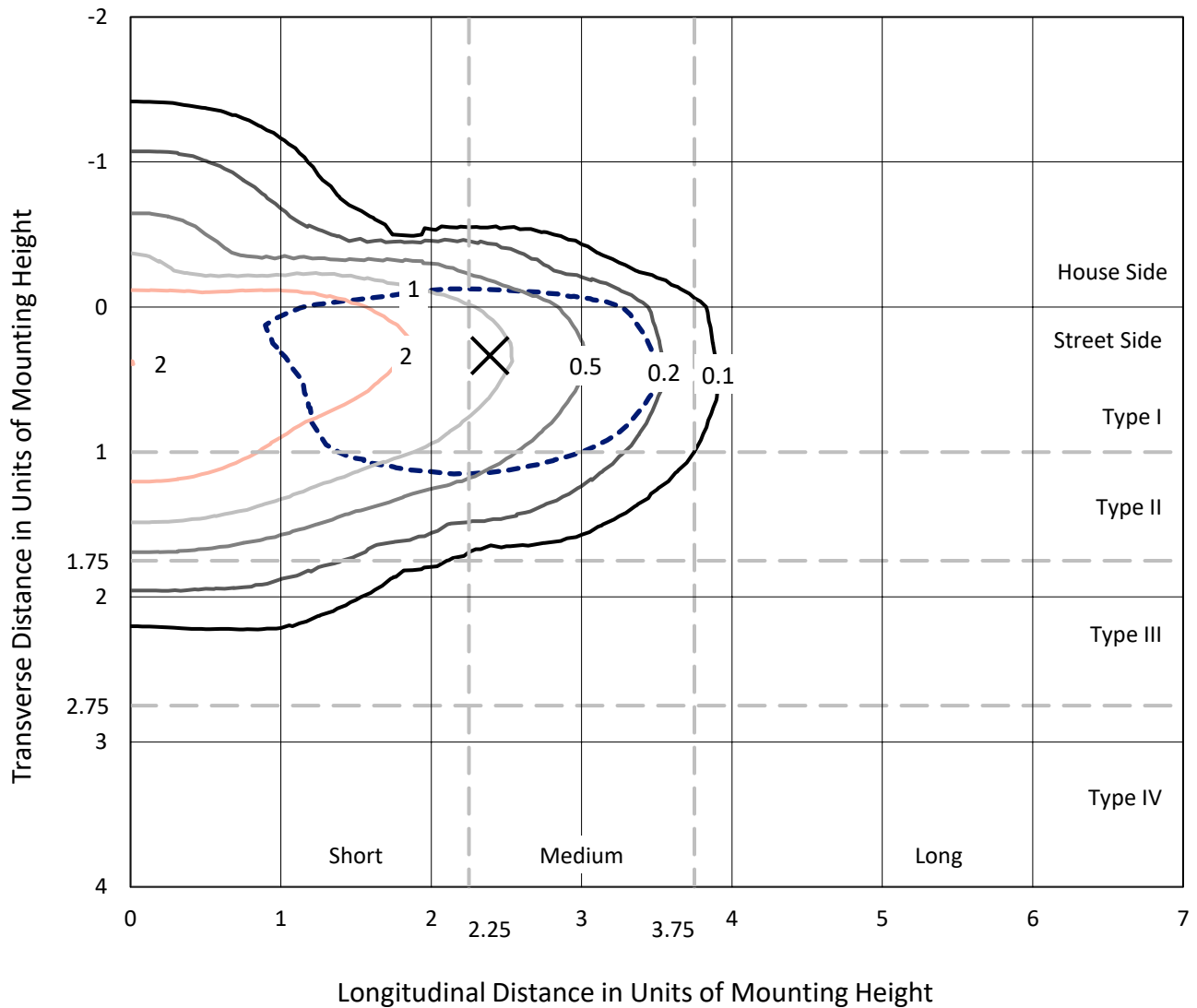
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

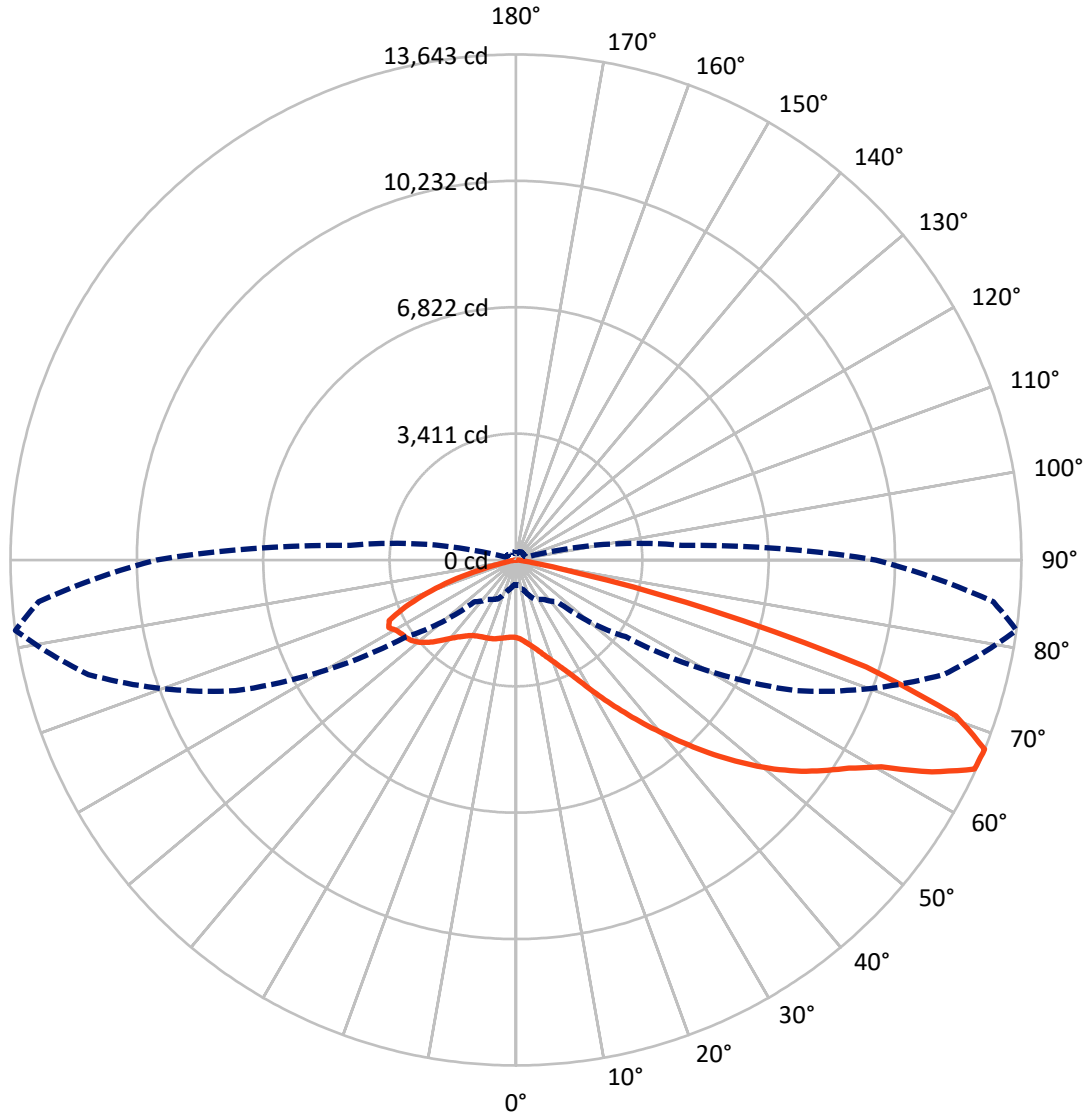
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2290.2	0.0	2290.2
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	10352.8	0.0	10352.8
	% Fixture	81.9	0.0	81.9
Total	Lumens	12643.0	0.0	12643.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.6	1.5
10°-20°	484.9	3.8
20°-30°	776.7	6.1
30°-40°	1373.4	10.9
40°-50°	2406.3	19.0
50°-60°	3209.4	25.4
60°-70°	2987.8	23.6
70°-80°	1146.7	9.1
80°-90°	71.2	0.6
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°	12643.0	100.0
0°-180°	12643.0	100.0

Coefficient of Utilization



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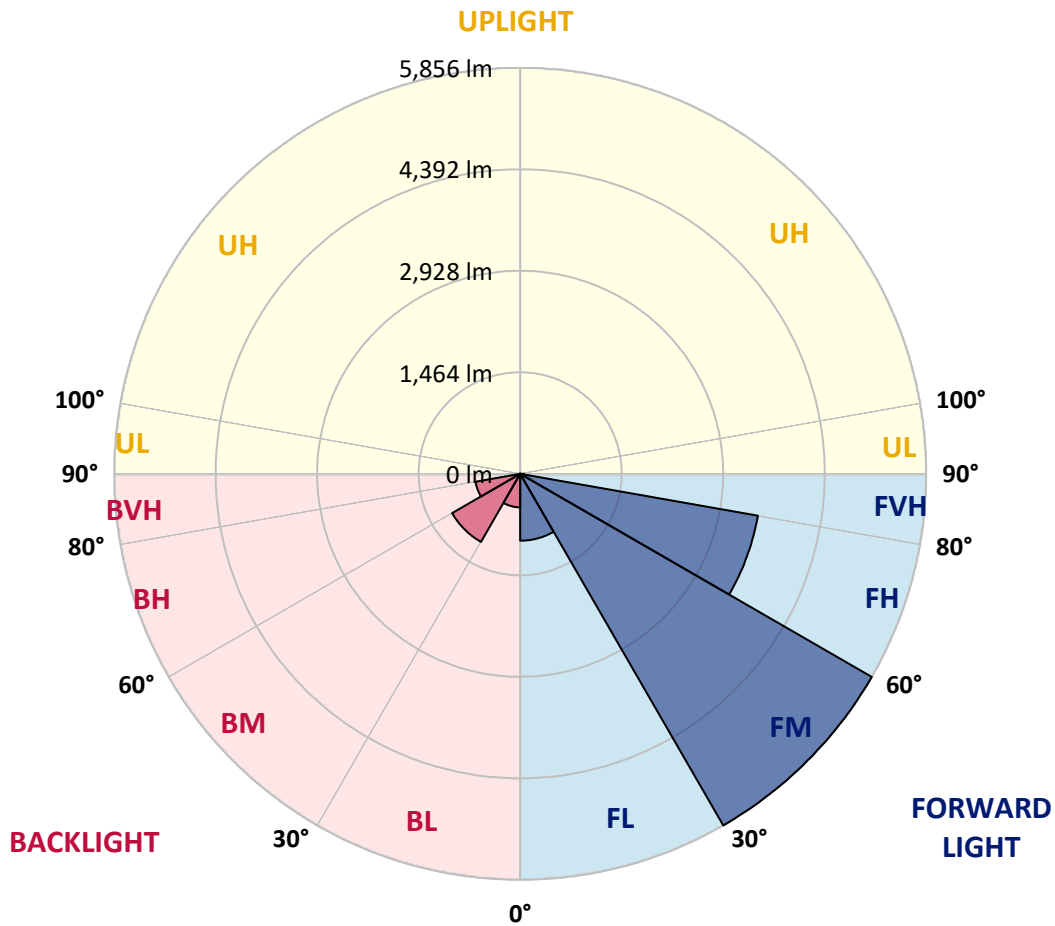
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	964.5	7.6			
FM (30°-60°)	5855.7	46.3			
FH (60°-80°)	3480.8	27.5			G2/5000
FVH (80°-90°)	51.8	0.4			G1/100
BL (0°-30°)	483.7	3.8	B1/500		
BM (30°-60°)	1133.4	9.0	B2/2500		
BH (60°-80°)	653.7	5.2	B2/1000		G2/1000
BVH (80°-90°)	19.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	2094.5	2094.5	2094.5	2094.5	2094.5	2094.5	2094.5	2094.5	2094.5	2094.5
2.5°	2213.8	2226.5	2219.2	2215.6	2209.2	2200.1	2192.8	2170.1	2146.4	2130.9
5°	2258.4	2271.1	2270.2	2273.8	2278.4	2281.1	2279.3	2253.8	2220.1	2193.7
7.5°	2220.1	2234.7	2246.5	2264.7	2296.6	2330.3	2346.7	2341.2	2306.6	2270.2
10°	2111.8	2127.3	2155.5	2198.3	2265.6	2338.5	2399.5	2427.7	2405.8	2365.8
12.5°	1913.4	1928.8	1984.4	2077.2	2190.1	2316.6	2433.1	2508.7	2514.1	2474.1
15°	1690.4	1705.8	1765.0	1881.5	2053.6	2256.5	2451.3	2594.3	2642.5	2607.9
17.5°	1552.0	1565.7	1610.3	1704.0	1883.3	2136.4	2445.0	2685.3	2795.4	2768.1
20°	1510.1	1522.0	1542.9	1608.4	1757.7	2011.7	2403.1	2770.8	2960.2	2944.7
22.5°	1554.7	1565.7	1572.0	1601.2	1694.9	1929.8	2350.3	2858.2	3151.3	3153.2
25°	1657.6	1668.5	1661.2	1679.4	1720.4	1904.3	2330.3	2961.1	3391.6	3411.7
27.5°	1826.9	1827.8	1810.5	1809.6	1816.0	1942.5	2351.2	3071.2	3694.8	3732.1
30°	2166.4	2152.8	2086.3	2014.4	1981.6	2057.2	2409.5	3201.4	4052.5	4118.9
32.5°	2689.8	2669.8	2547.8	2375.8	2202.8	2242.0	2514.1	3349.8	4442.1	4562.2
35°	3257.8	3252.4	3124.9	2869.2	2566.9	2505.0	2684.4	3544.6	4867.2	5058.3
37.5°	3785.8	3783.1	3710.2	3408.9	3041.2	2871.9	2957.4	3799.4	5322.3	5599.0
40°	4268.2	4276.4	4203.6	3934.2	3563.7	3342.5	3328.8	4114.4	5828.4	6188.0
42.5°	4685.1	4694.2	4620.5	4421.2	4079.8	3863.2	3784.9	4500.3	6322.7	6820.6
45°	4968.2	5024.7	5013.7	4854.4	4609.6	4384.7	4332.9	4984.6	6886.1	7491.5
47.5°	5048.3	5100.2	5182.1	5204.0	5054.7	4833.5	4895.4	5568.1	7456.0	8163.2
50°	4850.8	4899.0	5069.3	5295.9	5399.7	5331.4	5442.5	6193.4	8039.5	8833.2
52.5°	4461.2	4510.4	4725.2	5083.8	5507.1	5721.9	5991.4	6809.7	8604.7	9467.7
55°	3897.8	3949.6	4225.4	4631.4	5302.3	5883.0	6449.2	7425.0	9122.7	10038.4
57.5°	3131.3	3169.5	3456.3	4024.3	4787.1	5722.8	6786.9	8096.8	9610.6	10599.1
60°	2040.8	2074.5	2407.6	3041.2	3933.3	5187.6	6854.3	8845.9	10258.7	11328.2
62.5°	1357.2	1380.0	1577.5	2042.6	2769.9	4159.9	6460.1	9444.0	11209.0	12597.1
65°	931.2	954.0	1151.5	1475.5	1789.6	2751.7	5326.9	9364.8	12070.1	13604.8
67.5°	664.5	683.6	851.1	1156.9	1295.3	1598.4	3611.0	8352.6	11946.3	13643.0
70°	476.1	487.0	625.4	901.2	1029.5	960.3	2008.0	6388.2	10459.8	12598.1
72.5°	333.2	336.8	434.2	686.3	829.3	700.9	955.8	4259.1	7911.1	9888.2
75°	225.7	230.3	292.2	503.4	665.4	535.2	506.1	2283.9	4644.2	5473.4
77.5°	138.4	140.2	188.4	344.1	497.9	407.8	325.9	967.6	1796.9	1764.1
80°	78.3	78.3	120.2	213.9	339.5	263.1	228.5	411.4	568.9	499.7
82.5°	43.7	44.6	87.4	132.9	224.8	155.7	125.6	190.2	245.8	217.6
85°	18.2	20.0	53.7	62.8	107.4	77.4	51.0	80.1	91.0	81.0
87.5°	1.8	2.7	16.4	11.8	12.7	15.5	7.3	15.5	12.7	12.7
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°
2094.5	0°	2094.5	2094.5	2094.5	2094.5	2094.5	2094.5	2094.5	2094.5	2094.5	2094.5
2125.5	2.5°	2108.2	2094.5	2059.9	2019.9	1967.1	1941.6	1907.0	1883.3	1863.3	1865.1
2178.3	5°	2149.1	2114.5	2037.2	1940.7	1820.5	1735.0	1643.9	1581.1	1530.2	1519.2
2251.1	7.5°	2205.6	2151.0	2015.3	1841.5	1638.5	1484.6	1347.2	1258.9	1196.1	1176.1
2339.4	10°	2278.4	2199.2	1987.1	1716.8	1424.6	1228.9	1081.4	1012.2	969.4	954.9
2443.1	12.5°	2363.0	2254.7	1949.8	1564.7	1204.3	1015.9	922.1	887.5	873.9	869.3
2570.6	15°	2469.5	2323.9	1893.3	1384.5	1017.7	885.7	845.6	841.1	842.9	841.1
2723.5	17.5°	2596.1	2399.5	1801.4	1198.8	892.1	819.2	804.7	808.3	812.9	812.0
2894.6	20°	2734.4	2474.1	1684.0	1034.1	806.5	771.9	763.7	767.4	771.0	769.2
3092.2	22.5°	2891.9	2554.2	1553.8	905.7	749.1	728.2	719.1	720.0	720.0	716.4
3342.5	25°	3080.3	2642.5	1417.3	814.7	705.5	689.1	678.1	674.5	669.0	658.1
3646.5	27.5°	3305.2	2736.3	1286.2	751.0	670.9	655.4	642.6	633.5	619.9	601.7
4011.5	30°	3558.2	2850.0	1175.2	710.9	643.6	628.1	613.5	599.9	579.8	557.1
4431.2	32.5°	3855.9	2972.0	1094.1	684.5	619.0	602.6	585.3	568.9	547.1	524.3
4902.7	35°	4210.9	3119.5	1046.8	666.3	599.9	578.0	558.9	540.7	524.3	504.3
5415.2	37.5°	4595.9	3276.0	1032.2	657.2	587.1	553.4	531.6	518.9	517.0	505.2
5969.5	40°	5017.4	3461.7	1043.2	651.7	573.5	529.8	506.1	503.4	507.9	487.0
6562.1	42.5°	5463.4	3682.0	1061.4	645.4	554.4	506.1	483.4	483.4	479.7	450.6
7188.4	45°	5945.8	3936.0	1079.6	629.9	531.6	482.4	465.1	458.8	443.3	415.1
7818.3	47.5°	6431.9	4194.5	1093.2	601.7	504.3	462.4	446.9	432.4	409.6	384.1
8436.3	50°	6893.4	4426.6	1078.7	559.8	473.3	443.3	426.9	406.9	382.3	365.0
9021.6	52.5°	7305.8	4627.8	1016.8	510.7	440.6	423.3	408.7	387.8	367.7	349.5
9549.6	55°	7664.4	4790.7	907.5	464.2	411.4	406.0	391.4	365.0	337.7	322.2
10073.0	57.5°	8008.5	4914.5	771.0	426.0	385.0	386.9	365.0	341.3	315.9	299.5
10778.4	60°	8466.4	5080.2	632.6	390.5	356.8	362.3	338.6	321.3	289.5	268.5
11988.2	62.5°	9198.2	5337.8	502.5	346.8	324.1	325.9	315.9	294.9	256.7	232.1
12884.8	65°	9779.0	5243.1	396.0	299.5	286.7	289.5	289.5	266.7	225.7	197.5
12933.0	67.5°	9713.4	4489.4	315.9	253.1	251.2	253.1	259.4	240.3	200.3	177.5
11948.1	70°	8947.9	3571.0	253.1	210.3	218.5	213.9	232.1	219.4	180.2	157.5
9262.8	72.5°	7301.2	2572.4	193.0	173.9	167.5	174.8	209.4	197.5	150.2	124.7
4906.3	75°	4266.4	1372.7	143.8	137.4	121.1	145.6	185.7	168.4	114.7	91.9
1503.8	77.5°	1389.1	478.8	105.6	101.0	90.1	117.4	158.4	142.0	93.8	72.8
440.6	80°	372.3	144.7	71.9	66.4	58.3	87.4	125.6	112.9	67.4	47.3
189.3	82.5°	149.3	61.0	41.9	37.3	31.9	60.1	99.2	91.0	50.1	30.0
59.2	85°	48.2	20.0	15.5	11.8	14.6	37.3	59.2	61.9	35.5	15.5
9.1	87.5°	6.4	2.7	2.7	3.6	2.7	6.4	18.2	17.3	10.0	1.8
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>
2094.5
1846.9
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768.3
714.6
656.3
599.9
555.3
525.2
502.5
504.3
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