

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: P941246

Luminaire Tested: **GALN-SB4C-940-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941246
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-SB4C-940-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 4000K, 615mA 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: 17058 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

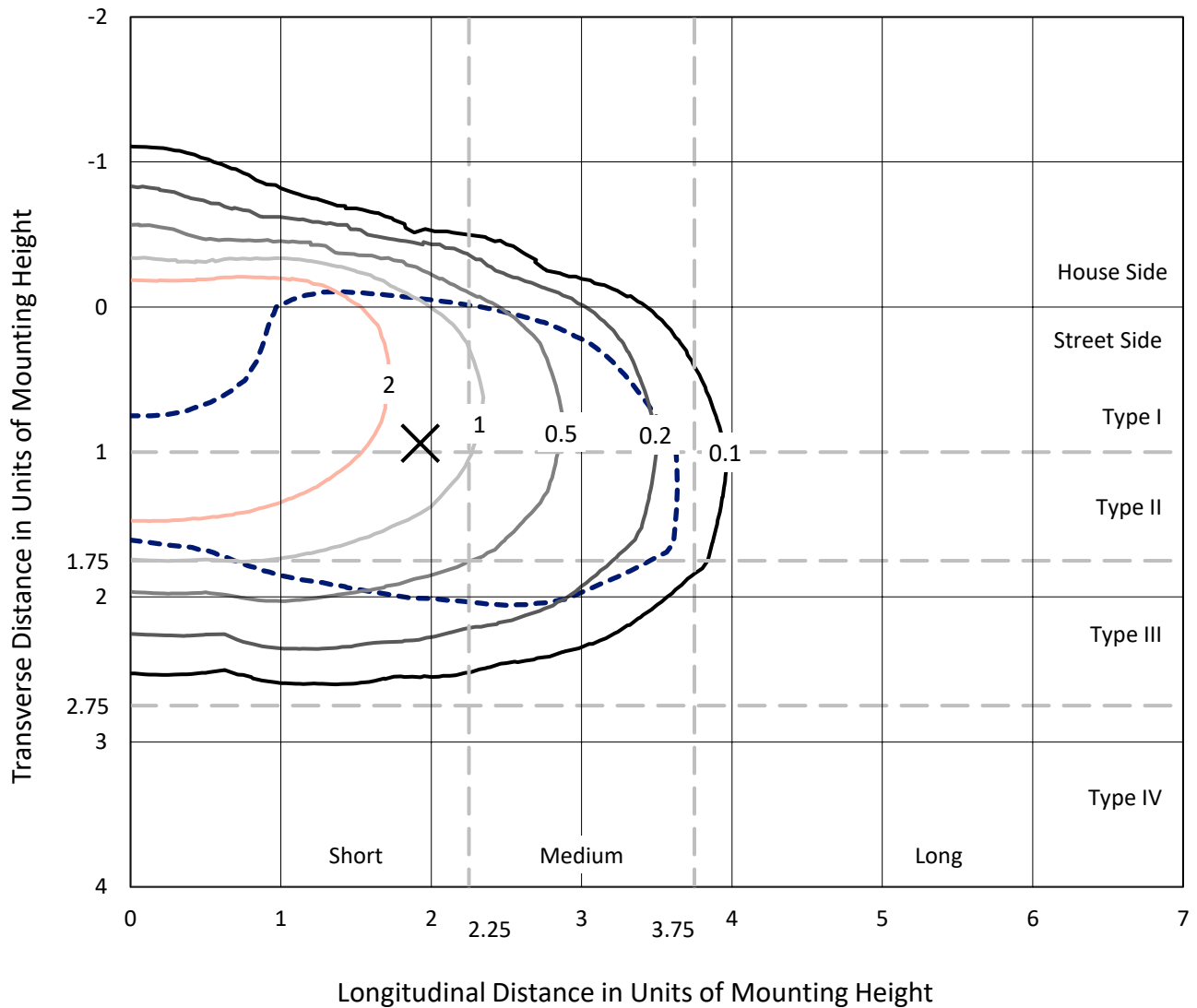
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

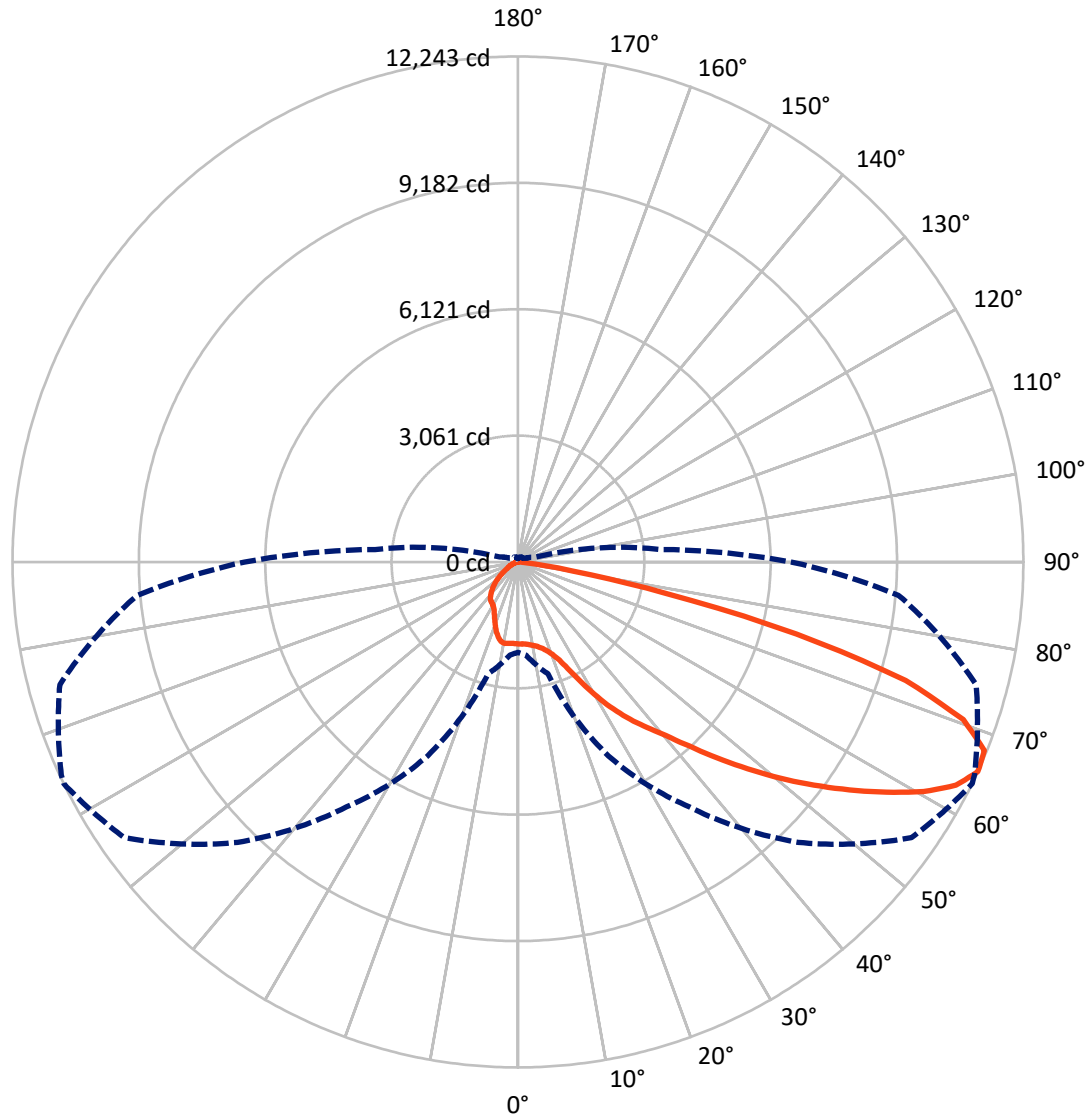
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type III - Short - N/A

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CATALOG NUMBER: GALN-SB4C-940-U-T3-HSS

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	2281.2	0.0	2281.2
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	14776.8	0.0	14776.8
	% Fixture	86.6	0.0	86.6
Total	Lumens	17058.0	0.0	17058.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.0	1.1
10°-20°	496.5	2.9
20°-30°	940.8	5.5
30°-40°	1903.7	11.2
40°-50°	3242.9	19.0
50°-60°	4410.2	25.9
60°-70°	4141.4	24.3
70°-80°	1659.2	9.7
80°-90°	80.4	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°	17058.0	100.0
0°-180°	17058.0	100.0

Coefficient of Utilization



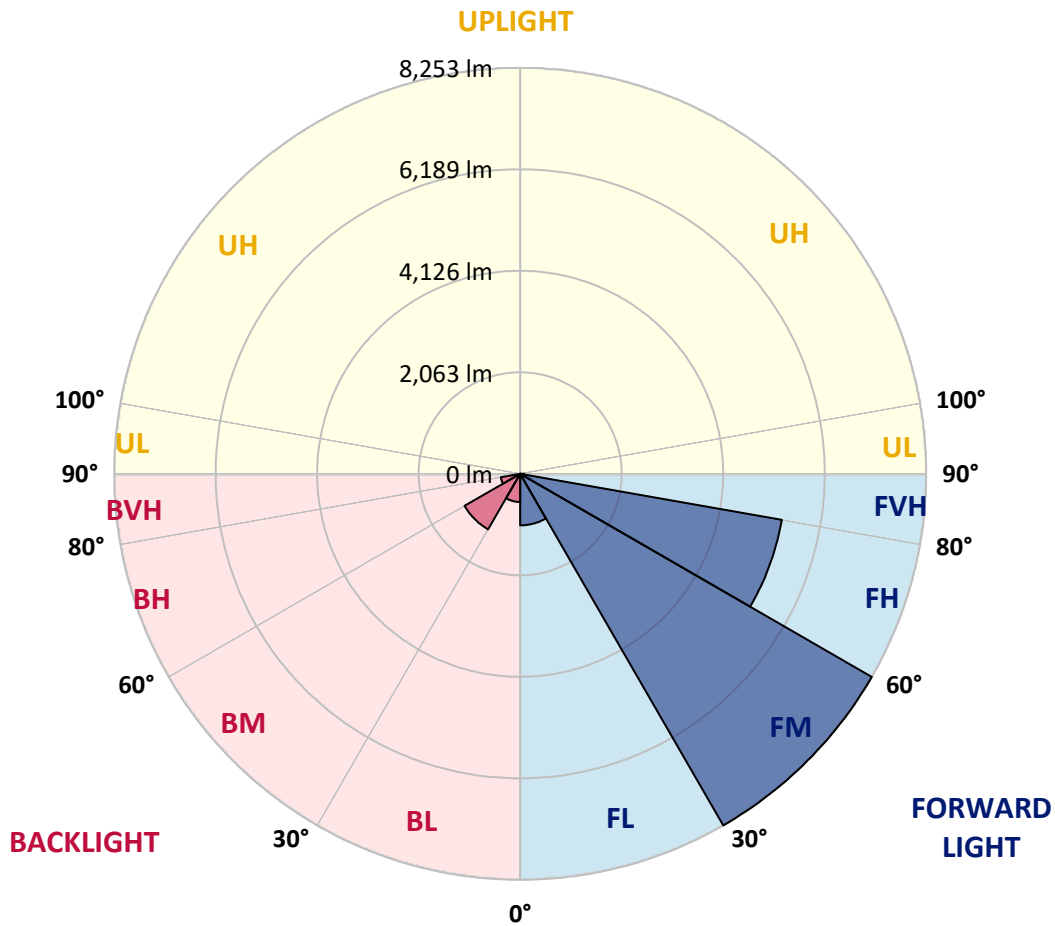
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1047.6	6.1			
FM (30°-60°)	8252.6	48.4			
FH (60°-80°)	5400.2	31.7			G3/7500
FVH (80°-90°)	76.5	0.4			G1/100
BL (0°-30°)	572.7	3.4	B2/1000		
BM (30°-60°)	1304.1	7.6	B2/2500		
BH (60°-80°)	400.4	2.3	B1/500		G1/500
BVH (80°-90°)	3.9	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



REPORT NUMBER: P941246

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	1984.0	1984.0	1984.0	1984.0	1984.0	1984.0	1984.0	1984.0	1984.0	1984.0
2.5°	1977.2	1990.9	1987.5	1984.0	1982.9	1985.2	1986.3	1985.2	1985.2	1985.2
5°	1939.4	1950.9	1950.9	1958.9	1970.3	1984.0	1994.3	1998.9	2002.3	2002.3
7.5°	1867.4	1876.5	1883.4	1909.7	1938.3	1974.9	2005.7	2024.0	2036.6	2036.6
10°	1818.2	1829.6	1841.1	1868.5	1909.7	1964.6	2017.2	2061.8	2091.5	2091.5
12.5°	1815.9	1827.4	1842.2	1872.0	1920.0	1978.3	2042.3	2108.7	2152.1	2152.1
15°	1839.9	1853.7	1867.4	1904.0	1955.4	2026.3	2094.9	2175.0	2236.7	2236.7
17.5°	1889.1	1907.4	1917.7	1954.3	2009.2	2088.1	2178.4	2267.6	2339.7	2339.7
20°	1986.3	2008.0	2011.5	2041.2	2094.9	2179.6	2287.1	2398.0	2480.3	2480.3
22.5°	2187.6	2218.4	2191.0	2205.9	2253.9	2338.5	2455.2	2597.0	2690.7	2690.7
25°	2542.1	2585.5	2514.6	2489.5	2510.0	2598.1	2744.5	2921.7	2997.2	2997.2
27.5°	3238.5	3182.4	3074.9	2969.7	2908.0	2958.3	3123.0	3342.5	3415.7	3415.7
30°	4003.5	3954.3	3809.1	3575.8	3429.4	3421.4	3573.5	3819.4	3889.1	3889.1
32.5°	4769.7	4722.8	4565.0	4277.9	4024.1	3898.3	4003.5	4260.8	4305.4	4305.4
35°	5523.2	5475.2	5317.4	5023.5	4711.3	4425.5	4404.9	4683.9	4730.8	4730.8
37.5°	6281.4	6241.4	6073.3	5785.1	5477.5	5083.0	4892.0	5094.4	5140.2	5140.2
40°	6822.3	6839.4	6723.9	6501.0	6236.8	5805.7	5438.6	5490.1	5566.7	5566.7
42.5°	7286.6	7320.9	7220.2	7108.2	6954.9	6575.3	6115.6	6045.8	6087.0	6087.0
45°	7687.9	7716.5	7626.2	7599.9	7596.5	7330.0	6855.5	6689.6	6681.6	6681.6
47.5°	7835.5	7890.3	7929.2	8017.3	8188.8	8076.7	7620.5	7396.3	7333.5	7333.5
50°	7891.5	7949.8	8082.5	8338.6	8744.6	8792.6	8382.1	8121.3	8007.0	8007.0
52.5°	7816.0	7920.1	8098.5	8529.6	9118.5	9366.6	9112.8	8856.6	8670.2	8670.2
55°	7371.2	7475.2	7840.0	8527.3	9304.9	9769.2	9803.5	9607.9	9314.0	9314.0
57.5°	6433.5	6587.9	7165.4	8236.8	9301.5	10115.7	10480.4	10373.0	9952.1	9952.1
60°	5134.4	5343.7	6048.1	7593.0	9014.4	10303.2	11073.9	11131.1	10581.1	10581.1
62.5°	3582.7	3825.1	4491.8	6584.4	8358.1	10168.3	11507.3	11787.5	11143.7	11143.7
65°	2185.3	2263.0	2800.5	5181.3	7242.0	9603.4	11641.1	12202.6	11487.9	11487.9
67.5°	1455.7	1520.9	1675.3	3552.9	5621.6	8474.7	11320.9	12195.7	11431.9	11431.9
70°	877.1	933.1	1033.8	2066.4	3643.3	6707.9	10329.5	11507.3	10682.8	10682.8
72.5°	361.4	399.1	490.6	936.6	1886.8	4257.4	8225.4	9977.3	8982.4	8982.4
75°	204.7	224.1	288.2	470.0	818.8	1984.0	4982.4	7200.8	6191.1	6191.1
77.5°	136.1	145.2	186.4	304.2	460.8	677.0	2129.3	4067.5	3381.4	3381.4
80°	91.5	99.5	128.1	203.5	299.6	290.5	678.1	1655.8	1161.8	1161.8
82.5°	61.8	62.9	91.5	133.8	189.8	140.7	200.1	526.0	336.2	336.2
85°	35.4	34.3	67.5	77.8	84.6	58.3	60.6	164.7	141.8	141.8
87.5°	4.6	6.9	26.3	20.6	11.4	12.6	12.6	32.0	34.3	34.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P941246
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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1984.0	0°	1984.0	1984.0	1984.0	1984.0	1984.0	1984.0	1984.0	1984.0	1984.0	1984.0
1986.3	2.5°	1986.3	1985.2	1981.7	1978.3	1970.3	1965.7	1968.0	1965.7	1964.6	1965.7
2001.2	5°	2001.2	1997.7	1988.6	1977.2	1961.2	1941.7	1929.1	1910.8	1893.7	1883.4
2041.2	7.5°	2041.2	2037.8	2025.2	1993.2	1941.7	1860.5	1786.2	1721.0	1671.8	1643.3
2105.2	10°	2105.2	2099.5	2080.1	2009.2	1874.2	1697.0	1549.5	1427.1	1347.1	1309.3
2180.7	12.5°	2180.7	2173.8	2139.5	1994.3	1746.2	1469.4	1265.9	1129.8	1055.5	1022.3
2267.6	15°	2269.9	2260.8	2193.3	1923.4	1559.8	1217.9	1031.5	929.7	881.7	851.9
2378.5	17.5°	2380.8	2364.8	2233.3	1817.1	1357.4	1025.7	887.4	810.8	768.5	739.9
2523.8	20°	2524.9	2498.6	2265.3	1690.1	1171.0	904.5	790.2	726.1	694.1	669.0
2729.6	22.5°	2726.2	2688.4	2304.2	1552.9	1039.5	821.1	718.1	671.3	645.0	616.4
3016.6	25°	2975.5	2930.9	2352.2	1426.0	949.1	749.0	665.5	626.7	595.8	562.6
3392.9	27.5°	3324.2	3244.2	2409.4	1321.9	871.4	687.3	617.5	574.1	538.6	511.2
3819.4	30°	3713.0	3581.5	2459.7	1259.0	800.5	630.1	554.6	511.2	478.0	458.6
4202.5	32.5°	4081.3	3902.9	2492.9	1231.6	736.4	564.9	486.0	439.1	414.0	408.2
4577.5	35°	4428.9	4193.3	2489.5	1205.3	679.3	499.7	418.5	370.5	351.1	354.5
4981.2	37.5°	4829.1	4503.2	2465.4	1164.1	632.4	440.3	360.2	317.9	300.7	301.9
5471.8	40°	5294.5	4861.1	2450.6	1086.4	580.9	385.4	312.2	277.9	265.3	260.7
5988.7	42.5°	5790.8	5207.6	2452.9	998.3	516.9	336.2	279.0	250.4	239.0	235.6
6563.9	45°	6289.4	5538.1	2456.3	906.8	449.4	298.5	255.0	231.0	224.1	219.6
7147.1	47.5°	6758.3	5819.4	2392.3	808.5	383.1	269.9	235.6	219.6	213.8	208.1
7732.5	50°	7195.1	6007.0	2237.9	694.1	330.5	247.0	220.7	209.3	203.5	197.8
8263.1	52.5°	7534.7	6036.7	1982.9	576.3	293.9	229.8	211.6	201.3	194.4	188.7
8692.0	55°	7685.7	5850.3	1620.4	466.6	265.3	215.0	202.4	192.1	184.1	178.4
9029.3	57.5°	7646.8	5458.1	1263.6	375.1	237.9	200.1	191.0	184.1	175.0	165.8
9302.6	60°	7455.8	4933.2	952.6	312.2	212.7	184.1	178.4	172.7	160.1	146.4
9407.8	62.5°	7125.3	4273.4	679.3	258.4	185.3	165.8	163.5	159.0	140.7	115.5
9252.3	65°	6619.9	3471.8	457.4	215.0	159.0	145.2	146.4	138.4	114.4	85.8
8682.8	67.5°	5881.2	2538.6	292.7	176.1	132.6	121.2	122.4	117.8	97.2	73.2
7603.3	70°	4940.0	1681.0	191.0	133.8	106.3	93.8	100.6	101.8	82.3	59.5
5835.4	72.5°	3621.6	992.6	133.8	99.5	77.8	65.2	82.3	84.6	66.3	44.6
3510.6	75°	2064.1	471.1	100.6	72.0	48.0	45.7	64.0	64.0	45.7	29.7
1519.7	77.5°	866.8	196.7	70.9	46.9	27.4	26.3	43.5	40.0	22.9	13.7
370.5	80°	250.4	88.1	37.7	22.9	11.4	10.3	17.2	12.6	5.7	2.3
140.7	82.5°	98.3	38.9	14.9	9.1	4.6	4.6	2.3	0.0	0.0	0.0
80.0	85°	58.3	16.0	6.9	3.4	1.1	0.0	0.0	0.0	0.0	0.0
17.2	87.5°	14.9	3.4	2.3	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>
1984.0
1970.3
1885.7
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1018.9
853.1
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664.4
611.8
559.2
505.4
455.1
411.7
354.5
306.5
259.6
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208.1
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