

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: P950989

Luminaire Tested: **GALN-SB5B-740-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950989
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5B-740-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29912 lumens
Efficiency: N/A
Efficacy: 163.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

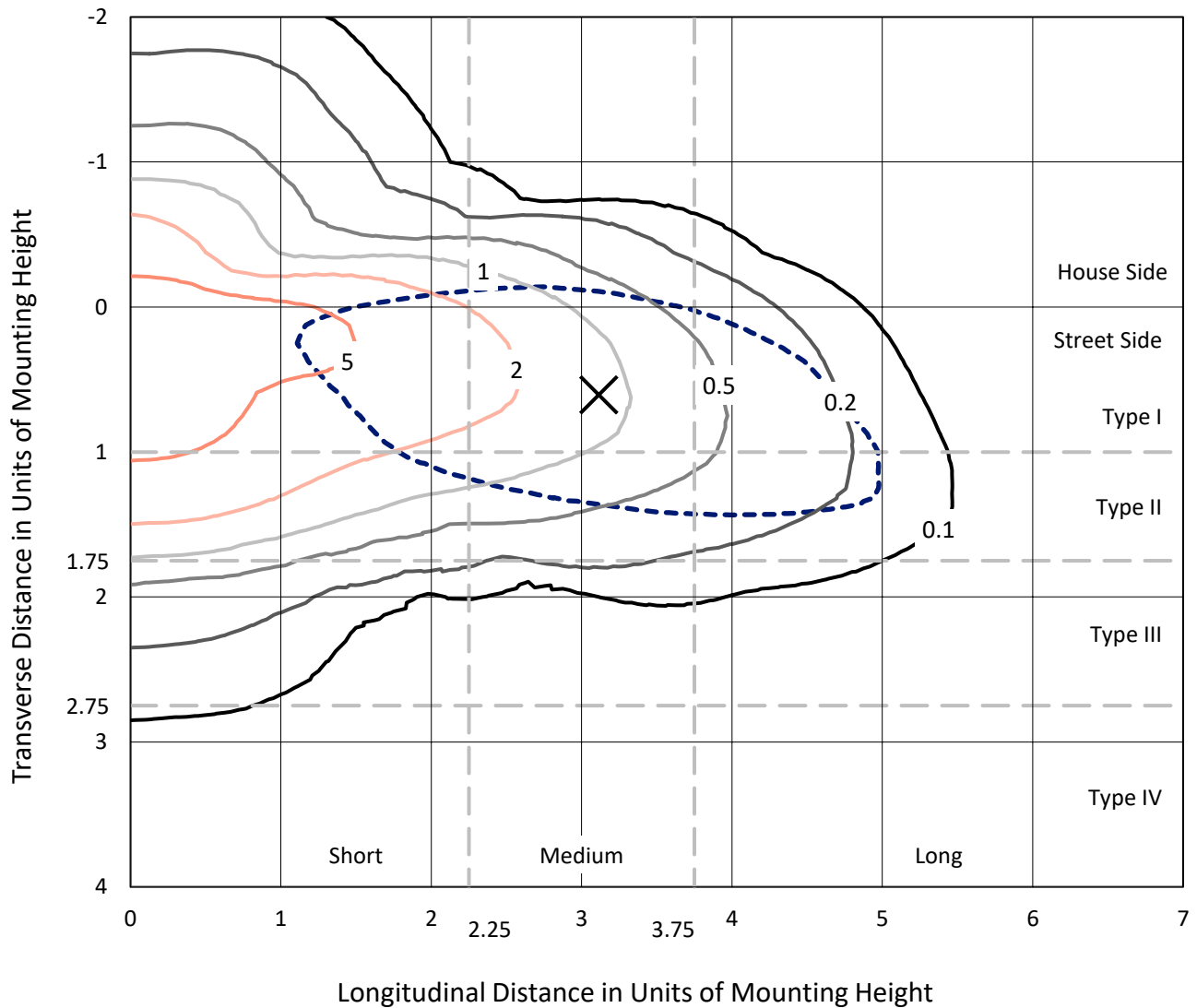
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

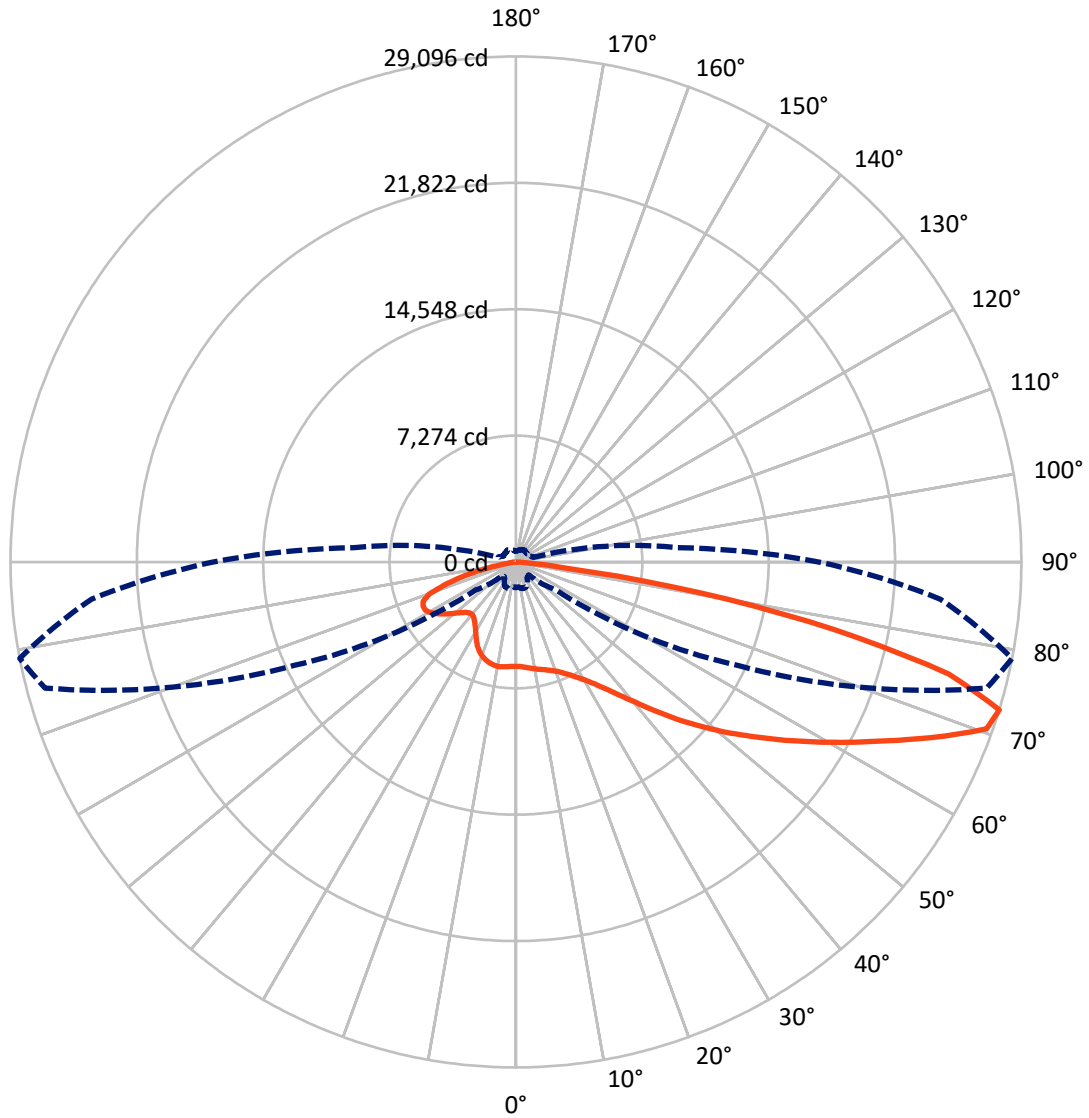
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6582.3	0.0	6582.3
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	23329.7	0.0	23329.7
	% Fixture	78.0	0.0	78.0
Total	Lumens	29912.0	0.0	29912.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	545.0	1.8
10°-20°	1425.0	4.8
20°-30°	2299.4	7.7
30°-40°	3451.0	11.5
40°-50°	4895.5	16.4
50°-60°	6182.4	20.7
60°-70°	6279.0	21.0
70°-80°	4279.4	14.3
80°-90°	555.2	1.9
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°	29912.0	100.0
0°-180°	29912.0	100.0



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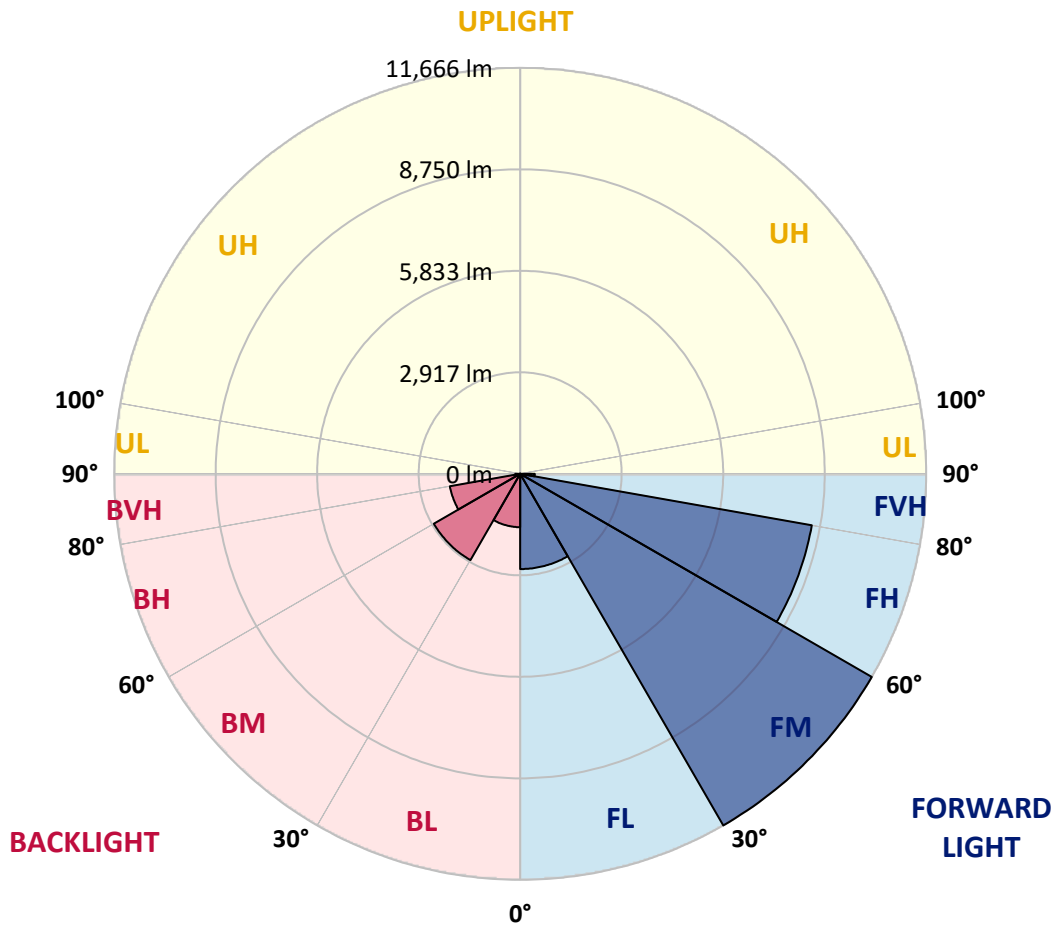
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2736.2	9.1			
FM (30°-60°)	11666.3	39.0			
FH (60°-80°)	8508.9	28.4			G4/12000
FVH (80°-90°)	418.2	1.4			G3/500
BL (0°-30°)	1533.2	5.1	B3/2500		
BM (30°-60°)	2862.6	9.6	B3/5000		
BH (60°-80°)	2049.5	6.9	B3/2500		G3/2500
BVH (80°-90°)	137.0	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	6004.5	6004.5	6004.5	6004.5	6004.5	6004.5	6004.5	6004.5	6004.5	6004.5
2.5°	6007.7	5979.2	5996.6	5990.3	5998.2	6007.7	6010.9	6015.6	6031.4	6029.9
5°	5995.1	5966.6	5990.3	5982.4	6003.0	6025.1	6044.1	6061.5	6086.8	6097.9
7.5°	5968.2	5949.2	5972.9	5996.6	6034.6	6067.8	6094.7	6134.3	6170.7	6177.0
10°	5811.5	5797.3	5852.7	5914.4	6018.8	6109.0	6167.5	6213.4	6253.0	6259.3
12.5°	5648.5	5631.1	5692.9	5776.7	5946.0	6109.0	6232.4	6292.5	6327.3	6347.9
15°	5621.7	5607.4	5642.2	5715.0	5855.8	6066.3	6276.7	6387.4	6417.5	6441.2
17.5°	5751.4	5724.5	5738.7	5764.1	5846.3	6026.7	6311.5	6495.0	6540.9	6566.2
20°	6052.0	6014.0	5991.9	5941.3	5927.0	6033.0	6308.3	6624.8	6684.9	6716.6
22.5°	6452.3	6427.0	6379.5	6251.4	6112.1	6110.6	6368.5	6790.9	6903.3	6933.3
25°	6936.5	6898.5	6838.4	6664.3	6396.9	6264.0	6469.7	7002.9	7191.2	7199.1
27.5°	7493.4	7436.5	7354.2	7124.8	6764.0	6504.5	6624.8	7246.6	7521.9	7518.7
30°	8080.4	8023.5	7936.4	7658.0	7203.9	6828.9	6840.0	7509.2	7914.3	7896.9
32.5°	8509.2	8466.5	8449.1	8233.9	7710.2	7211.8	7086.8	7800.4	8398.5	8382.6
35°	8838.3	8782.9	8803.5	8694.3	8262.4	7640.6	7389.0	8146.9	8987.0	8985.5
37.5°	9164.3	9115.2	9132.6	9059.8	8773.4	8184.9	7757.7	8570.9	9716.5	9751.3
40°	9461.7	9409.5	9479.1	9411.1	9170.6	8764.0	8176.9	9050.3	10561.4	10627.8
42.5°	9640.5	9599.4	9714.9	9716.5	9515.5	9252.9	8637.4	9578.8	11539.2	11687.9
45°	9702.2	9688.0	9862.0	9898.4	9820.9	9536.1	9051.9	10154.7	12592.9	12858.8
47.5°	9635.8	9608.9	9849.4	9983.8	10045.6	9669.0	9395.3	10778.1	13668.9	14058.1
50°	9300.3	9248.1	9605.7	9888.9	10108.8	9756.0	9741.8	11498.0	14891.9	15317.5
52.5°	8697.5	8657.9	9064.6	9556.6	9969.6	9798.7	10131.0	12284.4	16053.3	16603.9
55°	7927.0	7874.7	8322.5	8964.9	9623.1	9784.5	10520.2	13164.1	17423.5	17982.0
57.5°	6705.5	6601.0	7167.5	7927.0	9058.2	9767.1	10925.3	14039.1	18815.8	19485.1
60°	4923.9	4768.8	5463.4	6363.7	7953.9	9597.8	11426.8	15020.1	20486.7	21089.5
62.5°	2867.0	2776.8	3230.9	4071.1	5995.1	8601.0	11708.5	16160.9	22129.0	22761.9
65°	2226.2	2200.9	2240.4	2305.3	3336.9	6439.7	10839.8	17273.2	24217.6	24660.6
67.5°	2036.3	2017.3	2034.7	1912.9	1693.0	3586.9	8575.7	17554.8	26454.8	26723.8
70°	1810.1	1787.9	1844.9	1740.4	1332.2	1631.3	5541.0	16532.7	28234.8	28739.6
72.5°	1474.6	1449.3	1582.2	1534.8	1121.8	1047.4	2783.1	14104.0	28048.1	29095.6
75°	1132.9	1118.6	1276.9	1316.4	914.5	824.3	1335.4	10483.8	24682.7	25738.1
77.5°	879.7	868.6	949.3	1093.3	737.3	639.2	821.2	6650.1	18600.7	18785.8
80°	659.8	628.1	702.5	846.5	574.3	466.8	556.9	3878.0	11757.5	10657.9
82.5°	413.0	397.1	458.8	564.9	405.0	321.2	362.3	2142.3	4711.9	2775.2
85°	235.8	229.4	250.0	322.8	219.9	185.1	207.3	946.2	860.7	591.8
87.5°	94.9	91.8	113.9	144.0	80.7	68.0	72.8	227.8	189.9	175.6
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°
6004.5	0°	6004.5	6004.5	6004.5	6004.5	6004.5	6004.5	6004.5	6004.5	6004.5	6004.5
6028.3	2.5°	6022.0	6022.0	5999.8	5965.0	5925.4	5900.1	5859.0	5847.9	5805.2	5792.5
6082.1	5°	6094.7	6082.1	6014.0	5915.9	5781.5	5658.0	5522.0	5436.5	5316.3	5273.6
6188.1	7.5°	6186.5	6151.7	6034.6	5819.4	5537.8	5260.9	4972.9	4754.6	4545.7	4471.4
6275.1	10°	6270.4	6221.3	6022.0	5645.4	5158.1	4678.6	4219.8	3898.6	3654.9	3555.3
6371.6	12.5°	6354.2	6264.0	5938.1	5355.8	4618.5	3968.2	3479.3	3229.3	3079.0	2958.8
6450.7	15°	6433.3	6306.8	5808.4	4968.2	4026.8	3367.0	3006.2	2806.9	2686.6	2607.5
6566.2	17.5°	6525.1	6343.1	5613.7	4476.1	3463.5	2950.9	2656.6	2536.3	2512.6	2503.1
6724.5	20°	6653.3	6376.4	5357.4	3925.5	3049.0	2618.6	2466.7	2455.6	2454.0	2449.3
6914.3	22.5°	6790.9	6415.9	5018.8	3425.5	2696.1	2411.3	2384.4	2362.3	2348.0	2346.4
7143.8	25°	6953.9	6428.6	4594.8	3015.7	2395.5	2313.2	2281.6	2248.3	2238.9	2238.9
7404.8	27.5°	7112.1	6385.9	4101.1	2659.7	2226.2	2223.0	2181.9	2170.8	2169.2	2174.0
7702.3	30°	7270.3	6305.2	3610.6	2330.6	2128.1	2128.1	2113.9	2121.8	2128.1	2143.9
8110.5	32.5°	7483.9	6219.7	3200.8	2087.0	2042.7	2026.8	2041.1	2056.9	2063.2	2083.8
8646.9	35°	7797.2	6159.6	2874.9	1954.0	1954.0	1933.5	1941.4	1938.2	1924.0	1914.5
9295.6	37.5°	8211.8	6156.4	2605.9	1892.3	1879.7	1876.5	1878.1	1857.5	1802.2	1735.7
10080.4	40°	8710.2	6241.9	2398.7	1849.6	1840.1	1859.1	1849.6	1794.2	1642.4	1526.8
11045.5	42.5°	9379.4	6485.5	2265.7	1797.4	1825.9	1849.6	1811.6	1620.2	1517.4	1439.8
12145.2	45°	10167.4	6881.1	2197.7	1742.0	1799.0	1827.5	1643.9	1560.1	1477.8	1384.4
13344.5	47.5°	11059.8	7379.5	2181.9	1689.8	1738.9	1756.3	1572.7	1534.8	1441.4	1340.1
14550.2	50°	12031.3	7969.7	2224.6	1628.1	1651.8	1591.7	1549.0	1514.2	1417.7	1318.0
15785.9	52.5°	13036.0	8620.0	2310.1	1544.3	1564.8	1498.4	1539.5	1509.4	1403.4	1268.9
17062.7	55°	14023.3	9275.0	2392.3	1446.2	1476.2	1414.5	1512.6	1490.5	1338.6	1186.7
18425.0	57.5°	15026.4	9926.9	2473.0	1359.1	1390.8	1333.8	1469.9	1439.8	1265.8	1110.7
19912.3	60°	16069.1	10559.8	2511.0	1275.3	1297.4	1259.5	1405.0	1352.8	1183.5	1033.2
21374.3	62.5°	17045.3	11086.7	2449.3	1191.4	1205.7	1189.8	1319.6	1250.0	1101.2	946.2
22898.0	65°	18024.7	11399.9	2259.4	1109.1	1112.3	1104.4	1199.3	1139.2	1004.7	870.2
24231.8	67.5°	18912.4	11575.6	1957.2	1020.5	1012.6	1009.5	1087.0	1019.0	911.4	794.3
25246.0	70°	19100.6	11129.4	1495.2	916.1	916.1	908.2	963.6	894.0	808.5	713.6
24519.8	72.5°	17445.6	9362.0	1061.7	797.4	810.1	794.3	840.2	781.6	704.1	640.8
21132.2	75°	14067.6	6865.3	772.1	675.6	697.8	670.9	713.6	672.4	606.0	604.4
14562.8	77.5°	9665.8	4245.1	560.1	556.9	572.8	538.0	587.0	564.9	504.7	477.8
6338.4	80°	4124.9	1693.0	408.2	430.4	430.4	398.7	455.7	462.0	409.8	397.1
1223.1	82.5°	821.2	481.0	286.4	295.9	278.5	269.0	322.8	357.6	493.7	549.0
368.7	85°	246.8	177.2	172.5	161.4	142.4	144.0	189.9	359.2	443.0	253.2
121.8	87.5°	68.0	44.3	45.9	36.4	30.1	39.6	64.9	272.1	148.7	63.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

<u>180°</u>
6004.5
5813.1
5305.2
4480.9
3577.4
2998.3
2621.7
2509.4
2465.1
2363.8
2248.3
2186.6
2155.0
2101.2
1936.6
1737.3
1523.7
1436.7
1378.1
1332.2
1306.9
1259.5
1178.8
1107.6
1028.4
944.6
860.7
784.8
710.4
<i>621.8</i>
544.3
447.8
397.1
550.6
218.3
53.8
0.0

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