

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: P942042

Luminaire Tested: **GALN-SB5D-840-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942042
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-SB5D-840-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48739 lumens
Efficiency: N/A
Efficacy: 133.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

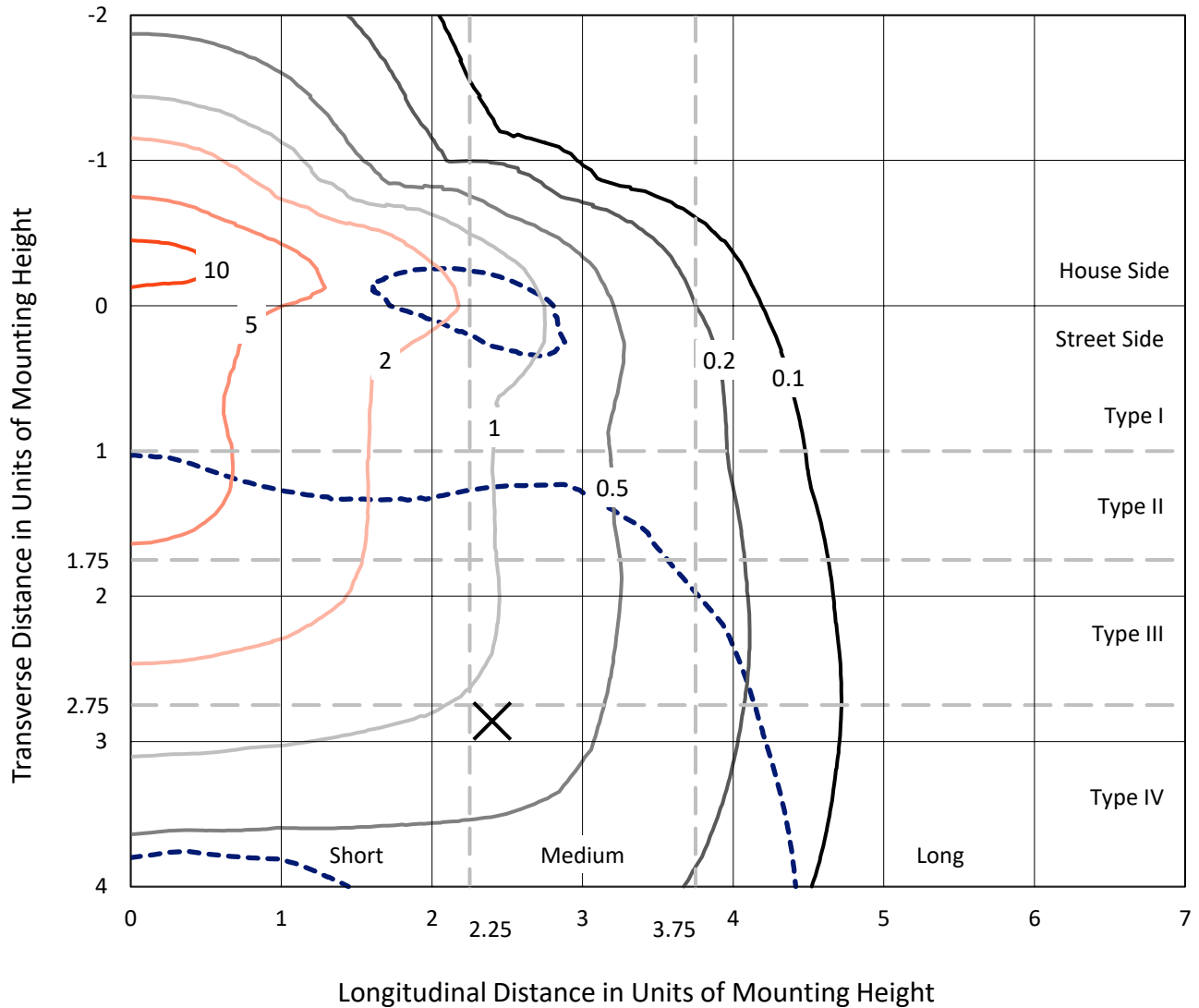
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P942042
 CATALOG NUMBER: GALN-SB5D-840-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

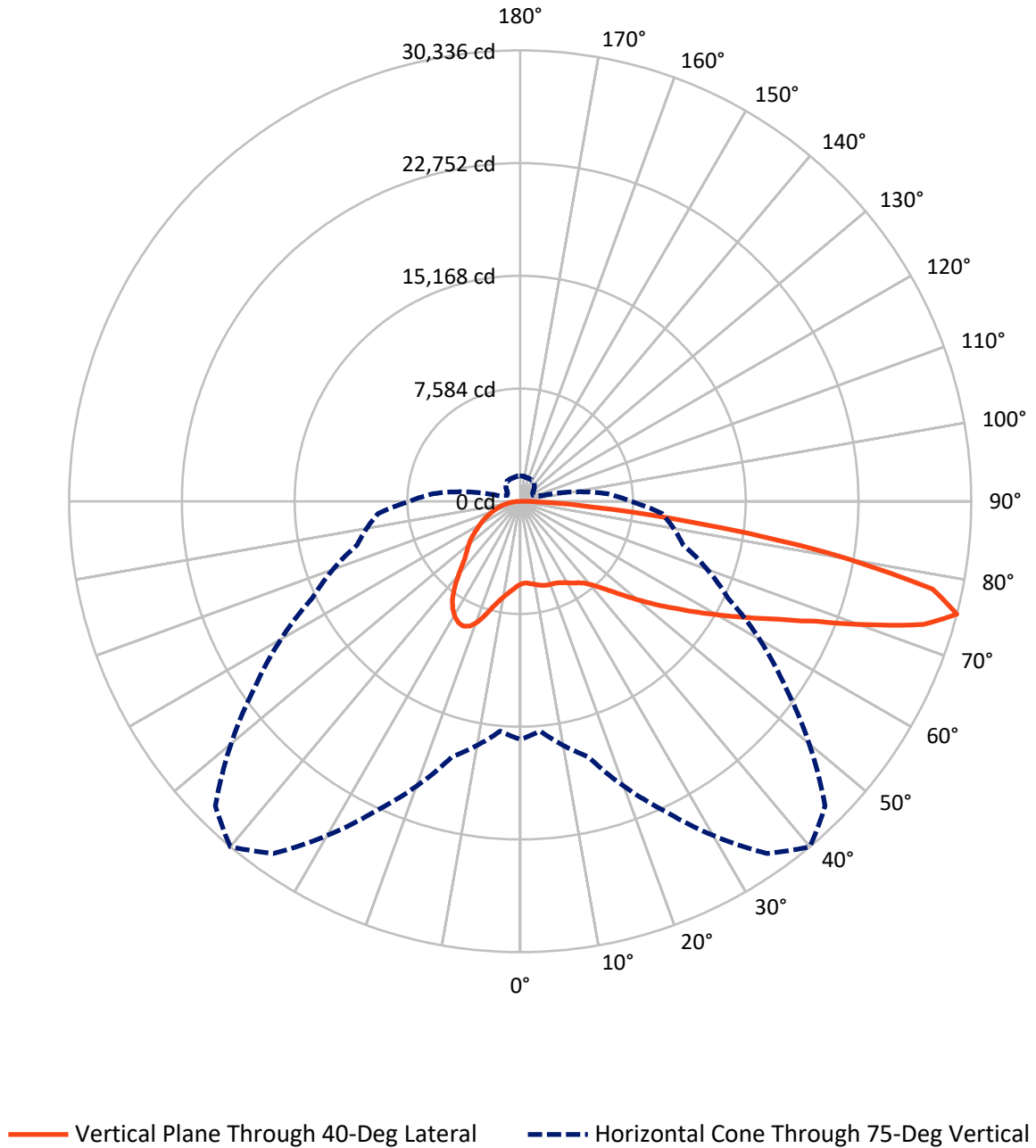
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 fc
 Type IV - Medium - N/A

REPORT NUMBER: P942042
CATALOG NUMBER: GALN-SB5D-840-U-SL4

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15101.0	0.0	15101.0
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	33638.0	0.0	33638.0
	% Fixture	69.0	0.0	69.0
Total	Lumens	48739.0	0.0	48739.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	556.3	1.1
10°-20°	1867.9	3.8
20°-30°	3410.5	7.0
30°-40°	4837.1	9.9
40°-50°	6531.5	13.4
50°-60°	8786.6	18.0
60°-70°	11152.3	22.9
70°-80°	10121.4	20.8
80°-90°	1475.4	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°	48739.0	100.0
0°-180°	48739.0	100.0



REPORT NUMBER: P942042

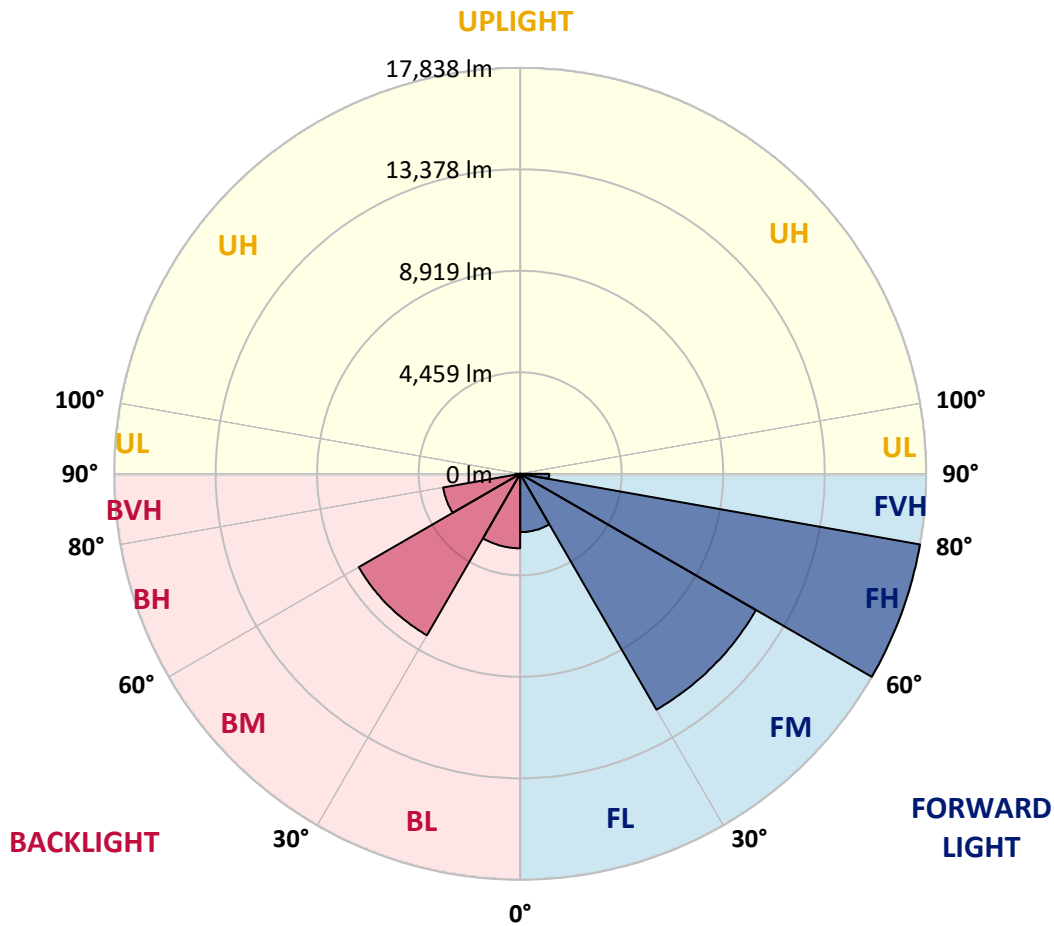
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2563.7	5.3			
FM (30°-60°)	11964.3	24.5			
FH (60°-80°)	17837.7	36.6			G5
FVH (80°-90°)	1272.3	2.6			G5
BL (0°-30°)	3271.0	6.7	B4/5000		
BM (30°-60°)	8190.9	16.8	B4/8500		
BH (60°-80°)	3435.9	7.0	B4/5000		G4/5000
BVH (80°-90°)	203.1	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Medium



REPORT NUMBER: P942042

CATALOG NUMBER: GALN-SB5D-840-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	5573.4	5573.4	5573.4	5573.4	5573.4	5573.4	5573.4	5573.4	5573.4	5573.4
2.5°	5488.1	5519.1	5511.3	5501.0	5501.0	5503.6	5501.0	5519.1	5537.2	5555.3
5°	5544.9	5576.0	5560.4	5547.5	5537.2	5534.6	5526.8	5524.3	5534.6	5557.9
7.5°	5656.1	5687.1	5663.8	5640.6	5619.9	5609.6	5599.2	5583.7	5576.0	5588.9
10°	5780.2	5811.2	5782.8	5741.4	5707.8	5694.9	5684.5	5669.0	5658.7	5666.4
12.5°	5904.3	5935.3	5896.5	5839.6	5795.7	5787.9	5775.0	5769.8	5767.2	5764.7
15°	6020.6	6046.4	5997.3	5930.1	5883.6	5870.7	5857.7	5865.5	5878.4	5893.9
17.5°	6111.1	6136.9	6064.5	5976.6	5932.7	5927.5	5919.8	5945.6	5981.8	6020.6
20°	6193.8	6219.6	6126.6	6007.7	5956.0	5956.0	5958.5	6012.8	6064.5	6121.4
22.5°	6310.1	6330.8	6217.0	6054.2	5979.2	5984.4	6005.1	6059.4	6124.0	6201.5
25°	6483.3	6498.8	6359.2	6142.1	6056.8	6072.3	6090.4	6116.2	6178.3	6268.7
27.5°	6762.5	6775.4	6591.9	6297.2	6167.9	6193.8	6219.6	6201.5	6230.0	6307.5
30°	7155.4	7163.2	6930.5	6540.2	6356.6	6369.6	6374.7	6299.8	6245.5	6307.5
32.5°	7620.7	7618.1	7341.5	6834.9	6571.2	6558.3	6514.3	6367.0	6240.3	6294.6
35°	8342.0	8313.5	7956.8	7248.5	6814.2	6734.1	6630.7	6441.9	6266.2	6281.7
37.5°	9536.3	9448.4	8954.6	7925.8	7176.1	6971.9	6819.4	6563.4	6323.0	6276.5
40°	10883.1	10771.9	10229.0	8853.8	7719.0	7390.7	7145.1	6736.6	6416.1	6299.8
42.5°	12480.6	12322.9	11738.7	9947.3	8406.6	7930.9	7561.3	6956.4	6553.1	6374.7
45°	14442.7	14233.3	13406.1	11180.3	9272.6	8639.2	8145.5	7289.8	6762.5	6519.5
47.5°	16425.4	16477.1	15300.9	12591.8	10311.8	9513.0	8877.1	7791.3	7067.5	6752.2
50°	18532.2	18568.4	17185.4	14155.7	11490.6	10500.5	9699.1	8352.3	7491.5	7083.0
52.5°	20176.3	20181.5	18896.7	15792.1	12718.5	11586.2	10585.8	8993.4	7982.6	7522.5
55°	21205.2	21192.2	20096.2	17340.5	14129.9	12726.2	11568.1	9722.4	8582.4	8039.5
57.5°	21952.3	21913.5	20923.4	18671.8	15634.4	14073.0	12679.7	10549.6	9290.7	8654.8
60°	22236.6	22213.3	21484.4	19822.2	17216.4	15562.0	13961.9	11475.0	10094.6	9381.1
62.5°	22345.2	22389.1	22035.0	20936.3	18909.6	17211.3	15370.7	12581.4	10999.4	10203.2
65°	22727.8	22807.9	22735.5	22394.3	20822.6	19142.3	17239.7	13897.2	11986.9	11084.7
67.5°	23485.2	23565.3	23596.3	24139.2	23159.5	21549.0	19571.4	15536.2	13142.4	11999.8
70°	23467.1	23443.8	23991.9	25527.4	26085.7	24881.1	22714.8	17552.5	14520.2	12759.8
72.5°	21360.3	21174.2	22469.3	25511.9	28520.9	28360.6	26553.6	20153.1	15709.4	12852.9
75°	16024.7	15528.4	17816.2	22991.4	28926.7	30335.6	28993.9	21766.1	15427.6	11356.1
77.5°	6853.0	6354.1	9050.3	17020.0	25889.3	28358.0	26755.3	18989.8	12315.2	7509.6
80°	1794.0	1791.4	2735.0	7716.4	17606.8	20941.5	18372.0	12263.5	7036.5	2683.3
82.5°	741.9	723.8	1005.6	3001.2	8603.0	11751.6	9590.5	5470.0	2541.1	726.4
85°	276.6	274.0	488.6	1036.6	3034.8	4847.0	3507.9	1398.5	633.3	354.2
87.5°	77.6	75.0	106.0	359.3	739.3	1121.9	599.7	230.1	178.4	139.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P942042
 CATALOG NUMBER: GALN-SB5D-840-U-SL4

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
5573.4	0°	5573.4	5573.4	5573.4	5573.4	5573.4	5573.4	5573.4	5573.4	5573.4	5573.4
5583.7	2.5°	5591.5	5604.4	5627.7	5645.8	5669.0	5694.9	5731.1	5754.3	5777.6	5793.1
5596.6	5°	5614.7	5643.2	5702.6	5762.1	5831.9	5896.5	5971.5	6025.8	6069.7	6082.6
5643.2	7.5°	5666.4	5713.0	5813.8	5914.6	6025.8	6131.7	6240.3	6333.4	6408.3	6436.8
5725.9	10°	5756.9	5818.9	5961.1	6103.3	6250.7	6413.5	6553.1	6687.5	6793.5	6837.5
5824.1	12.5°	5870.7	5948.2	6134.3	6330.8	6535.0	6759.9	6940.9	7106.3	7238.1	7297.6
5961.1	15°	6018.0	6118.8	6356.6	6620.3	6920.2	7233.0	7463.0	7646.6	7793.9	7866.3
6103.3	17.5°	6178.3	6312.7	6612.6	7010.7	7439.8	7850.8	8119.6	8254.1	8406.6	8476.4
6235.1	20°	6333.4	6498.8	6927.9	7507.0	8078.3	8515.2	8732.3	8768.5	8778.8	8786.6
6359.2	22.5°	6493.6	6716.0	7323.4	8132.6	8745.2	9047.7	9078.7	8923.6	8706.5	8605.6
6480.7	25°	6669.4	6964.1	7840.5	8822.8	9319.1	9355.3	9117.5	8740.1	8329.0	8140.3
6579.0	27.5°	6840.0	7251.1	8460.9	9482.0	9732.7	9414.8	8902.9	8367.8	7871.5	7672.4
6648.8	30°	7010.7	7579.4	9145.9	10058.4	9921.4	9267.4	8564.3	7967.1	7468.2	7258.8
6710.8	32.5°	7183.9	7962.0	9934.4	10474.6	9887.8	8954.6	8142.9	7517.3	7077.9	6858.1
6765.1	35°	7380.3	8432.4	10681.4	10702.1	9662.9	8494.5	7587.1	6979.6	6597.0	6421.3
6829.7	37.5°	7636.2	9029.6	11340.6	10759.0	9270.0	7819.8	6896.9	6343.7	6028.3	5948.2
6925.4	40°	7954.2	9748.2	11844.7	10668.5	8688.4	7000.3	6142.1	5700.0	5521.7	5539.8
7054.6	42.5°	8367.8	10552.2	12198.9	10435.9	7879.2	6155.0	5480.3	5283.8	5369.2	5441.5
7248.5	45°	8905.5	11387.1	12418.6	10040.3	6964.1	5438.9	5090.0	5136.5	5201.1	5208.9
7561.3	47.5°	9593.1	12232.5	12563.3	9443.2	6030.9	4934.9	4841.8	4852.1	4839.2	4784.9
8029.2	50°	10451.4	13054.5	12692.6	8652.2	5237.3	4619.5	4495.4	4459.2	4280.8	4105.1
8652.2	52.5°	11428.5	13809.3	12746.9	7669.8	4619.5	4355.8	4154.2	3926.7	3593.2	3538.9
9435.4	55°	12514.2	14507.3	12607.3	6462.6	4099.9	4017.2	3712.1	3438.1	3401.9	3355.4
10466.9	57.5°	13811.9	15259.6	12322.9	5115.8	3567.4	3621.7	3324.4	3355.4	3290.8	3218.4
11793.0	60°	15231.1	16037.7	11824.0	3887.9	3016.8	3127.9	3223.6	3221.0	3202.9	3143.4
13191.5	62.5°	16508.1	16549.5	10841.7	2978.0	2533.3	2745.3	3006.4	3003.8	2988.3	2954.7
14652.1	65°	17268.1	16471.9	9202.8	2344.6	2135.3	2429.9	2711.7	2732.4	2735.0	2732.4
15750.7	67.5°	17133.7	15564.6	6953.8	1866.4	1807.0	2109.4	2419.6	2448.0	2468.7	2473.9
15890.3	70°	15613.7	13571.5	4534.2	1489.0	1514.8	1827.6	2143.0	2171.4	2189.5	2210.2
13788.7	72.5°	12170.4	9978.3	2595.4	1204.6	1258.9	1584.6	1869.0	1902.6	1912.9	1951.7
9595.7	75°	7416.5	5868.1	1401.1	948.7	1034.0	1354.6	1597.6	1636.3	1654.4	1701.0
4712.5	77.5°	3526.0	2541.1	798.8	739.3	832.4	1106.4	1349.4	1393.3	1344.2	1370.1
1300.3	80°	1191.7	943.5	504.1	563.5	635.9	863.4	1080.6	1124.5	1021.1	1015.9
431.7	82.5°	416.2	382.6	320.5	374.8	411.0	617.8	816.9	873.7	760.0	757.4
193.9	85°	162.9	155.1	178.4	204.2	245.6	380.0	537.7	566.1	467.9	377.4
56.9	87.5°	33.6	36.2	43.9	46.5	75.0	131.8	193.9	237.8	188.7	160.3
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>
5573.4
5782.8
6087.8
6439.4
6840.0
7297.6
7861.1
8473.8
8807.3
8634.1
8168.8
7695.7
7282.1
6886.6
6460.0
6005.1
5601.8
5508.7
5260.6
4826.3
4128.3
3557.0
3363.2
3205.5
3122.7
2941.8
2732.4
2479.1
2220.6
1967.2
<i>1706.1</i>
1349.4
1005.6
721.2
372.2
147.3
0.0

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