

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: P953215

Luminaire Tested: **GALN-SB6D-830-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953215
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-SB6D-830-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55112 lumens
Efficiency: N/A
Efficacy: 125.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

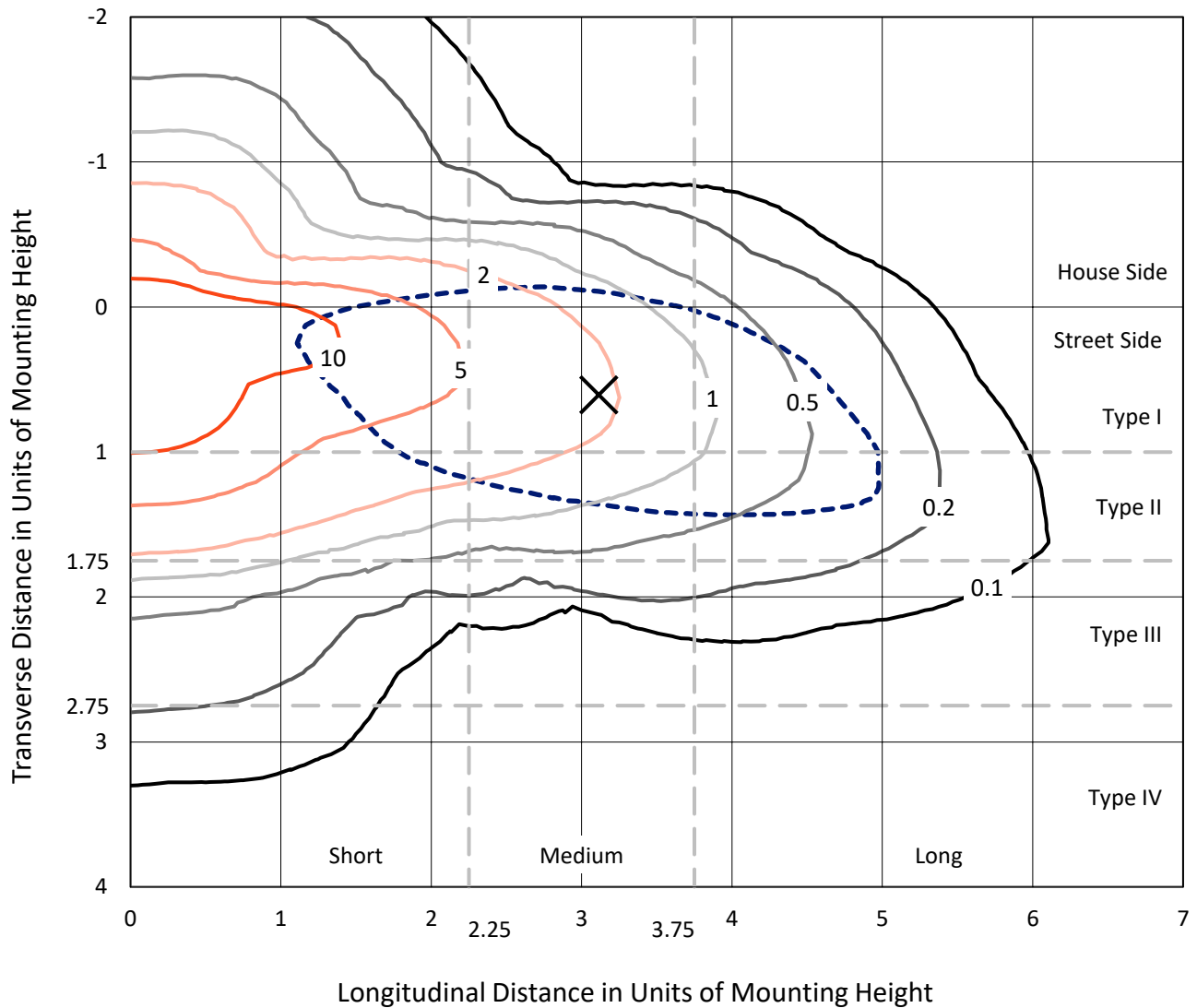
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P953215
 CATALOG NUMBER: GALN-SB6D-830-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

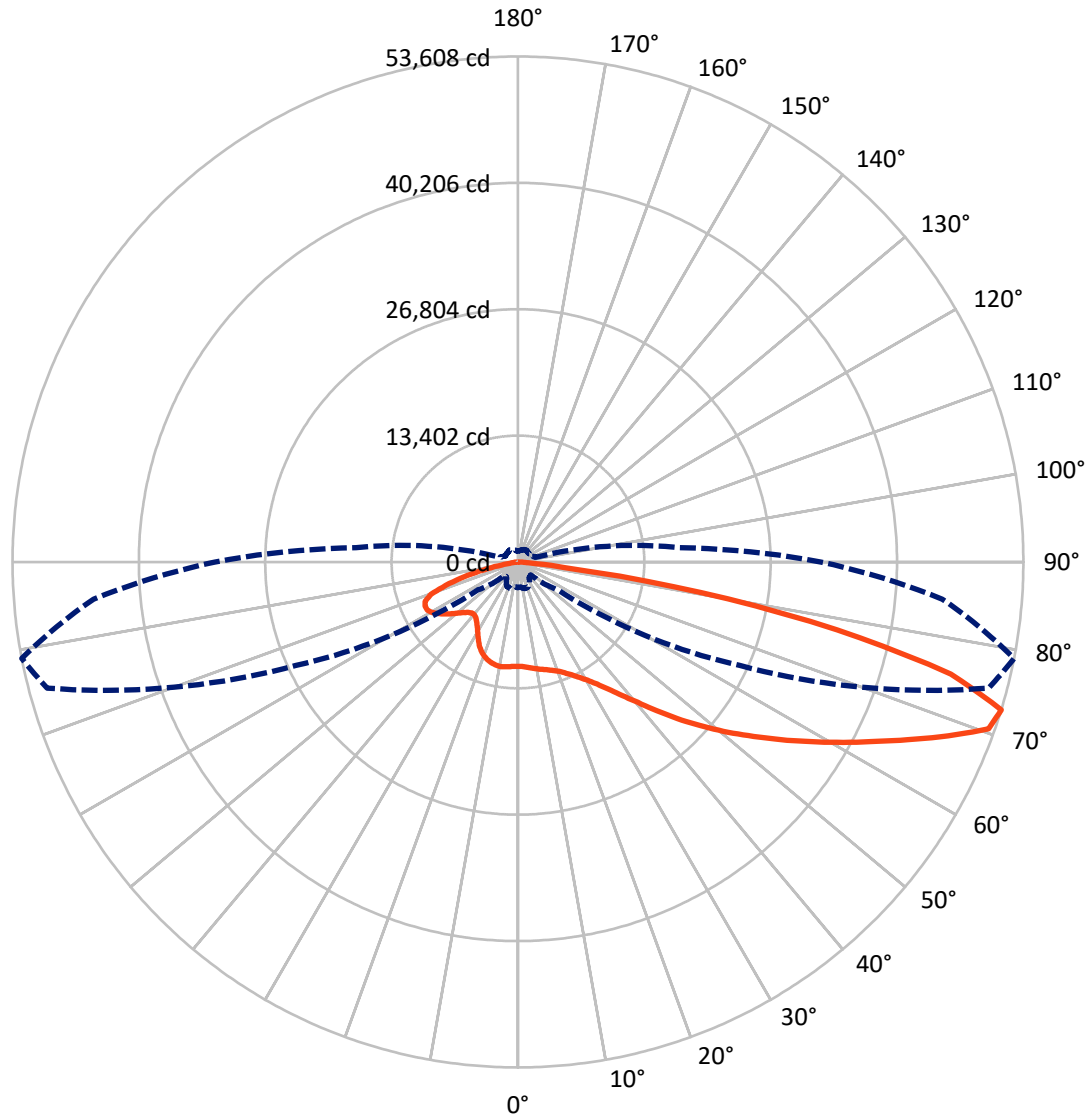
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.8 fc
 Type II - Medium - N/A

REPORT NUMBER: P953215
CATALOG NUMBER: GALN-SB6D-830-U-SL2

Luminous Intensity Polar Plot



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

REPORT NUMBER: P953215
 CATALOG NUMBER: GALN-SB6D-830-U-SL2

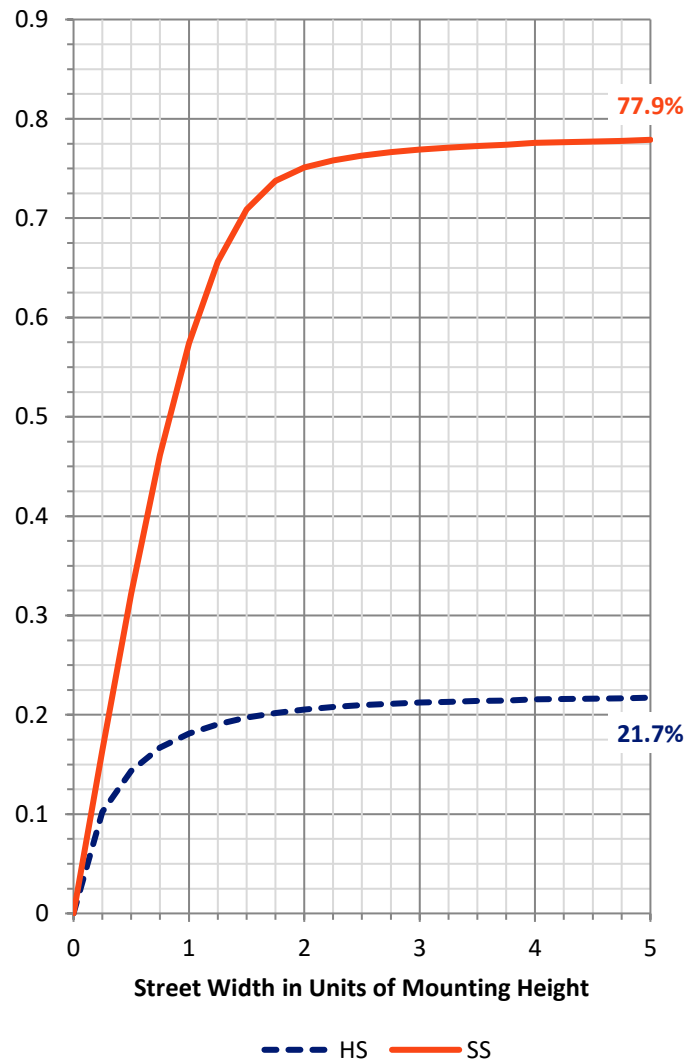
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12127.7	0.0	12127.7
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	42984.3	0.0	42984.3
	% Fixture	78.0	0.0	78.0
Total	Lumens	55112.0	0.0	55112.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1004.2	1.8
10°-20°	2625.5	4.8
20°-30°	4236.5	7.7
30°-40°	6358.4	11.5
40°-50°	9019.8	16.4
50°-60°	11390.8	20.7
60°-70°	11568.9	21.0
70°-80°	7884.7	14.3
80°-90°	1023.0	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°	55112.0	100.0
0°-180°	55112.0	100.0



REPORT NUMBER: P953215

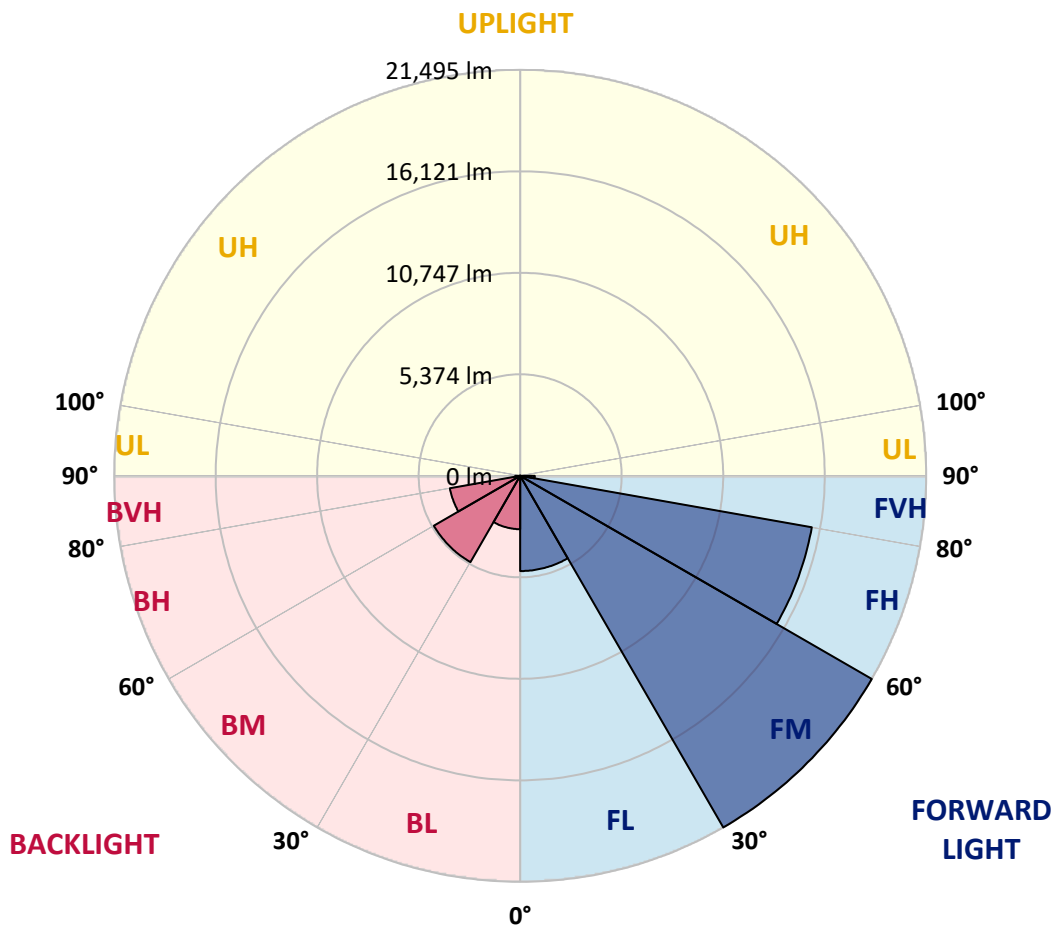
CATALOG NUMBER: GALN-SB6D-830-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5041.4	9.1			
FM (30°-60°)	21494.8	39.0			
FH (60°-80°)	15677.5	28.4			G5
FVH (80°-90°)	770.6	1.4			G5
BL (0°-30°)	2824.9	5.1	B4/5000		
BM (30°-60°)	5274.3	9.6	B4/8500		
BH (60°-80°)	3776.2	6.9	B4/5000		G4/5000
BVH (80°-90°)	252.4	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Medium



REPORT NUMBER: P953215
 CATALOG NUMBER: GALN-SB6D-830-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	11063.2	11063.2	11063.2	11063.2	11063.2	11063.2	11063.2	11063.2	11063.2	11063.2
2.5°	11069.0	11016.6	11048.6	11037.0	11051.5	11069.0	11074.9	11083.6	11112.8	11109.9
5°	11045.7	10993.2	11037.0	11022.4	11060.3	11101.1	11136.1	11168.2	11214.8	11235.2
7.5°	10996.2	10961.2	11004.9	11048.6	11118.6	11179.8	11229.4	11302.3	11369.3	11381.0
10°	10707.6	10681.3	10783.4	10897.0	11089.4	11255.6	11363.5	11448.0	11520.9	11532.6
12.5°	10407.3	10375.2	10488.9	10643.4	10955.3	11255.6	11483.0	11593.8	11657.9	11695.8
15°	10357.7	10331.5	10395.6	10529.7	10789.2	11176.9	11564.6	11768.7	11824.1	11867.8
17.5°	10596.8	10547.2	10573.5	10620.1	10771.7	11104.0	11628.8	11966.9	12051.5	12098.1
20°	11150.7	11080.7	11039.9	10946.6	10920.4	11115.7	11622.9	12206.0	12316.7	12375.1
22.5°	11888.2	11841.6	11754.1	11518.0	11261.4	11258.5	11733.7	12512.1	12719.0	12774.4
25°	12780.3	12710.3	12599.5	12278.9	11786.2	11541.3	11920.3	12902.7	13249.6	13264.2
27.5°	13806.4	13701.5	13549.9	13127.2	12462.5	11984.4	12206.0	13351.6	13858.9	13853.1
30°	14888.0	14783.0	14622.7	14109.6	13272.9	12582.0	12602.4	13835.6	14581.9	14549.8
32.5°	15678.0	15599.3	15567.2	15170.7	14205.8	13287.5	13057.2	14372.0	15473.9	15444.8
35°	16284.3	16182.3	16220.2	16019.1	15223.2	14077.5	13614.0	15010.4	16558.4	16555.5
37.5°	16884.9	16794.5	16826.6	16692.5	16164.8	15080.4	14293.3	15791.7	17902.3	17966.4
40°	17432.9	17336.7	17465.0	17339.7	16896.5	16147.3	15065.8	16675.0	19459.0	19581.4
42.5°	17762.4	17686.6	17899.4	17902.3	17532.1	17048.1	15914.1	17648.7	21260.6	21534.6
45°	17876.0	17849.8	18170.5	18237.5	18094.7	17570.0	16677.9	18709.8	23202.1	23691.9
47.5°	17753.6	17704.1	18147.2	18395.0	18508.6	17814.8	17310.5	19858.4	25184.5	25901.6
50°	17135.6	17039.4	17698.2	18220.0	18625.3	17975.2	17948.9	21184.8	27437.9	28222.1
52.5°	16024.9	15952.0	16701.2	17607.8	18368.7	18053.9	18666.1	22633.7	29577.7	30592.2
55°	14605.2	14509.0	15334.0	16517.6	17730.3	18027.6	19383.2	24254.5	32102.3	33131.3
57.5°	12354.6	12162.2	13205.9	14605.2	16689.6	17995.6	20129.5	25866.6	34667.6	35900.8
60°	9072.1	8786.4	10066.2	11725.0	14654.7	17683.6	21053.6	27674.1	37746.1	38856.8
62.5°	5282.4	5116.2	5952.9	7500.8	11045.7	15847.1	21572.5	29775.9	40772.1	41938.2
65°	4101.7	4055.1	4127.9	4247.5	6148.2	11864.9	19972.1	31825.3	44620.2	45436.4
67.5°	3751.9	3716.9	3749.0	3524.5	3119.3	6608.8	15800.4	32344.2	48742.3	49237.8
70°	3335.0	3294.2	3399.1	3206.7	2454.6	3005.6	10209.1	30461.0	52021.9	52951.8
72.5°	2717.0	2670.3	2915.2	2827.8	2066.9	1929.9	5127.8	25986.2	51677.9	53607.7
75°	2087.3	2061.1	2352.6	2425.5	1685.0	1518.8	2460.4	19316.2	45477.2	47421.7
77.5°	1620.9	1600.4	1749.1	2014.4	1358.5	1177.7	1513.0	12252.6	34271.2	34612.3
80°	1215.6	1157.3	1294.4	1559.6	1058.2	860.0	1026.2	7145.2	21662.9	19636.8
82.5°	760.9	731.7	845.4	1040.7	746.3	591.8	667.6	3947.2	8681.5	5113.3
85°	434.4	422.7	460.6	594.7	405.2	341.1	381.9	1743.3	1585.9	1090.3
87.5°	174.9	169.1	209.9	265.3	148.7	125.4	134.1	419.8	349.8	323.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P953215
 CATALOG NUMBER: GALN-SB6D-830-U-SL2

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
11063.2	0°	11063.2	11063.2	11063.2	11063.2	11063.2	11063.2	11063.2	11063.2	11063.2	11063.2
11106.9	2.5°	11095.3	11095.3	11054.5	10990.3	10917.4	10870.8	10795.0	10774.6	10695.9	10672.6
11206.1	5°	11229.4	11206.1	11080.7	10900.0	10652.2	10424.8	10174.1	10016.7	9795.1	9716.4
11401.4	7.5°	11398.5	11334.3	11118.6	10722.1	10203.2	9693.1	9162.5	8760.2	8375.4	8238.4
11561.7	10°	11553.0	11462.6	11095.3	10401.5	9503.6	8620.3	7774.9	7183.1	6734.1	6550.5
11739.5	12.5°	11707.5	11541.3	10940.8	9868.0	8509.5	7311.3	6410.5	5949.9	5673.0	5451.4
11885.3	15°	11853.2	11620.0	10701.7	9153.7	7419.2	6203.6	5538.9	5171.6	4950.0	4804.3
12098.1	17.5°	12022.3	11687.1	10343.2	8247.1	6381.4	5436.9	4894.6	4673.1	4629.3	4611.9
12389.6	20°	12258.4	11748.3	9870.9	7232.6	5617.6	4824.7	4544.8	4524.4	4521.5	4512.7
12739.5	22.5°	12512.1	11821.2	9247.0	6311.4	4967.5	4442.8	4393.2	4352.4	4326.2	4323.3
13162.2	25°	12812.3	11844.5	8465.8	5556.4	4413.6	4262.0	4203.7	4142.5	4125.0	4125.0
13643.2	27.5°	13103.9	11765.8	7556.2	4900.5	4101.7	4095.9	4020.1	3999.7	3996.7	4005.5
14191.2	30°	13395.4	11617.1	6652.5	4294.1	3921.0	3921.0	3894.7	3909.3	3921.0	3950.1
14943.4	32.5°	13788.9	11459.7	5897.5	3845.2	3763.5	3734.4	3760.6	3789.8	3801.4	3839.3
15931.6	35°	14366.1	11348.9	5296.9	3600.3	3600.3	3562.4	3577.0	3571.1	3544.9	3527.4
17126.8	37.5°	15129.9	11343.1	4801.3	3486.6	3463.3	3457.4	3460.4	3422.5	3320.4	3198.0
18572.8	40°	16048.2	11500.5	4419.5	3407.9	3390.4	3425.4	3407.9	3305.8	3026.0	2813.2
20351.1	42.5°	17281.3	11949.4	4174.6	3311.7	3364.1	3407.9	3337.9	2985.2	2795.7	2652.8
22377.1	45°	18733.1	12678.2	4049.2	3209.6	3314.6	3367.1	3028.9	2874.4	2722.8	2550.8
24586.9	47.5°	20377.3	13596.5	4020.1	3113.4	3203.8	3235.9	2897.7	2827.8	2655.8	2469.2
26808.2	50°	22167.2	14683.9	4098.8	2999.7	3043.5	2932.7	2854.0	2789.9	2612.0	2428.4
29085.0	52.5°	24018.4	15882.0	4256.2	2845.2	2883.1	2760.7	2836.5	2781.1	2585.8	2338.0
31437.6	55°	25837.5	17088.9	4407.8	2664.5	2719.9	2606.2	2786.9	2746.1	2466.3	2186.4
33947.6	57.5°	27685.7	18290.0	4556.5	2504.2	2562.5	2457.5	2708.2	2652.8	2332.2	2046.5
36687.9	60°	29606.8	19456.1	4626.4	2349.7	2390.5	2320.5	2588.7	2492.5	2180.6	1903.6
39381.5	62.5°	31405.5	20426.9	4512.7	2195.2	2221.4	2192.2	2431.3	2303.0	2029.0	1743.3
42188.9	65°	33210.0	21004.1	4162.9	2043.6	2049.4	2034.8	2209.7	2098.9	1851.2	1603.4
44646.4	67.5°	34845.5	21327.7	3606.1	1880.3	1865.7	1859.9	2002.7	1877.4	1679.2	1463.4
46515.0	70°	35192.4	20505.6	2754.9	1687.9	1687.9	1673.3	1775.4	1647.1	1489.7	1314.8
45177.0	72.5°	32143.1	17249.3	1956.1	1469.3	1492.6	1463.4	1548.0	1440.1	1297.3	1180.7
38935.5	75°	25919.1	12649.1	1422.6	1244.8	1285.6	1236.0	1314.8	1239.0	1116.5	1113.6
26831.6	77.5°	17809.0	7821.5	1032.0	1026.2	1055.3	991.2	1081.5	1040.7	930.0	880.4
11678.3	80°	7599.9	3119.3	752.1	792.9	792.9	734.6	839.6	851.2	755.0	731.7
2253.5	82.5°	1513.0	886.2	527.7	545.1	513.1	495.6	594.7	658.8	909.5	1011.6
679.2	85°	454.8	326.5	317.8	297.4	262.4	265.3	349.8	661.8	816.3	466.4
224.5	87.5°	125.4	81.6	84.5	67.0	55.4	72.9	119.5	501.4	274.0	116.6
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

180°
11063.2
10710.5
9774.7
8255.9
6591.3
5524.3
4830.5
4623.5
4541.9
4355.3
4142.5
4028.8
3970.5
3871.4
3568.2
3200.9
2807.3
2647.0
2539.1
2454.6
2408.0
2320.5
2171.8
2040.6
1894.9
1740.4
1585.9
1445.9
1308.9
1145.7
1002.8
825.0
731.7
1014.5
402.3
99.1
0.0

F REPORT)