

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: P942528

Luminaire Tested: **GALN-SB6C-827-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942528
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6C-827-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29900 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

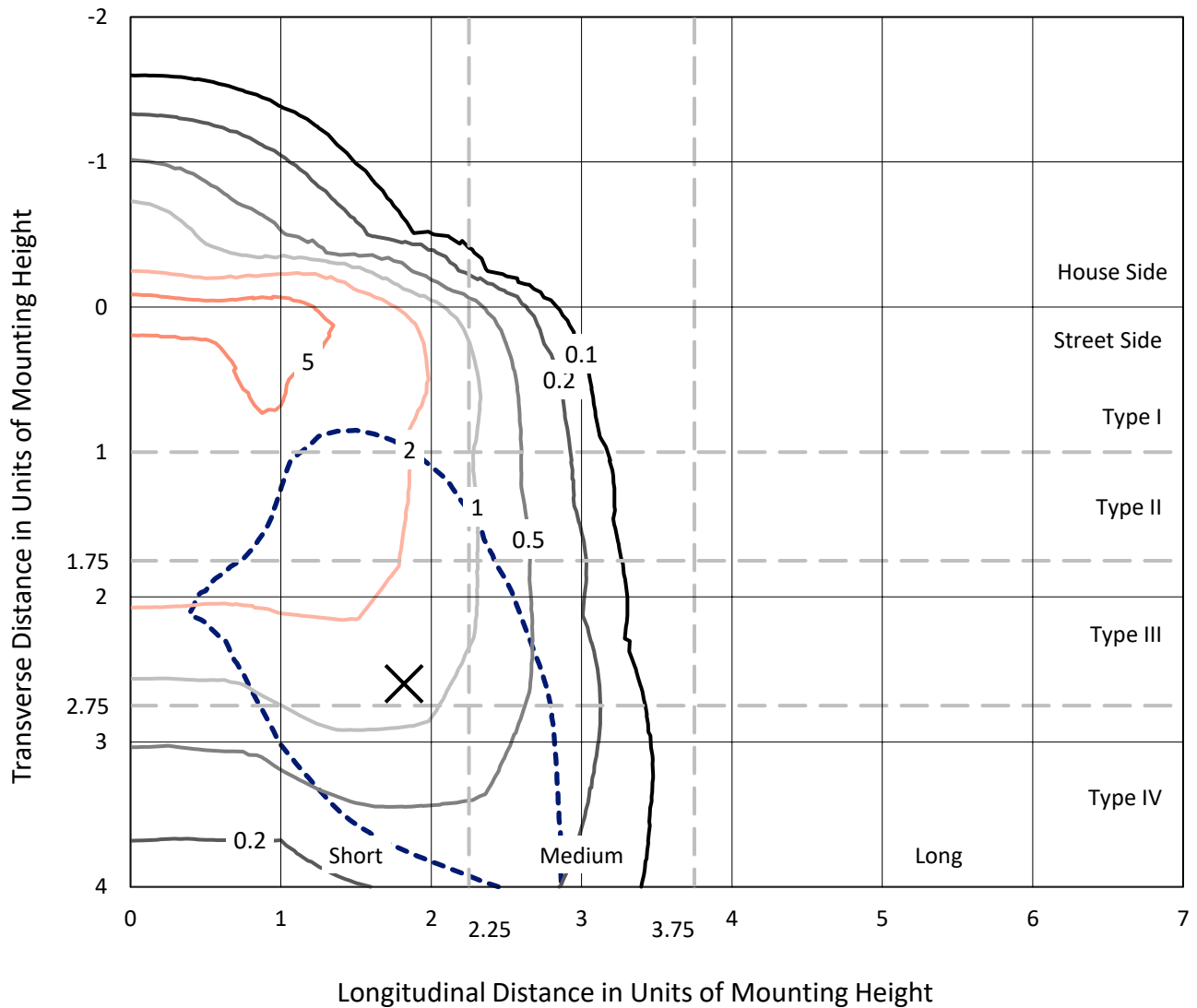
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P942528
 CATALOG NUMBER: GALN-SB6C-827-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

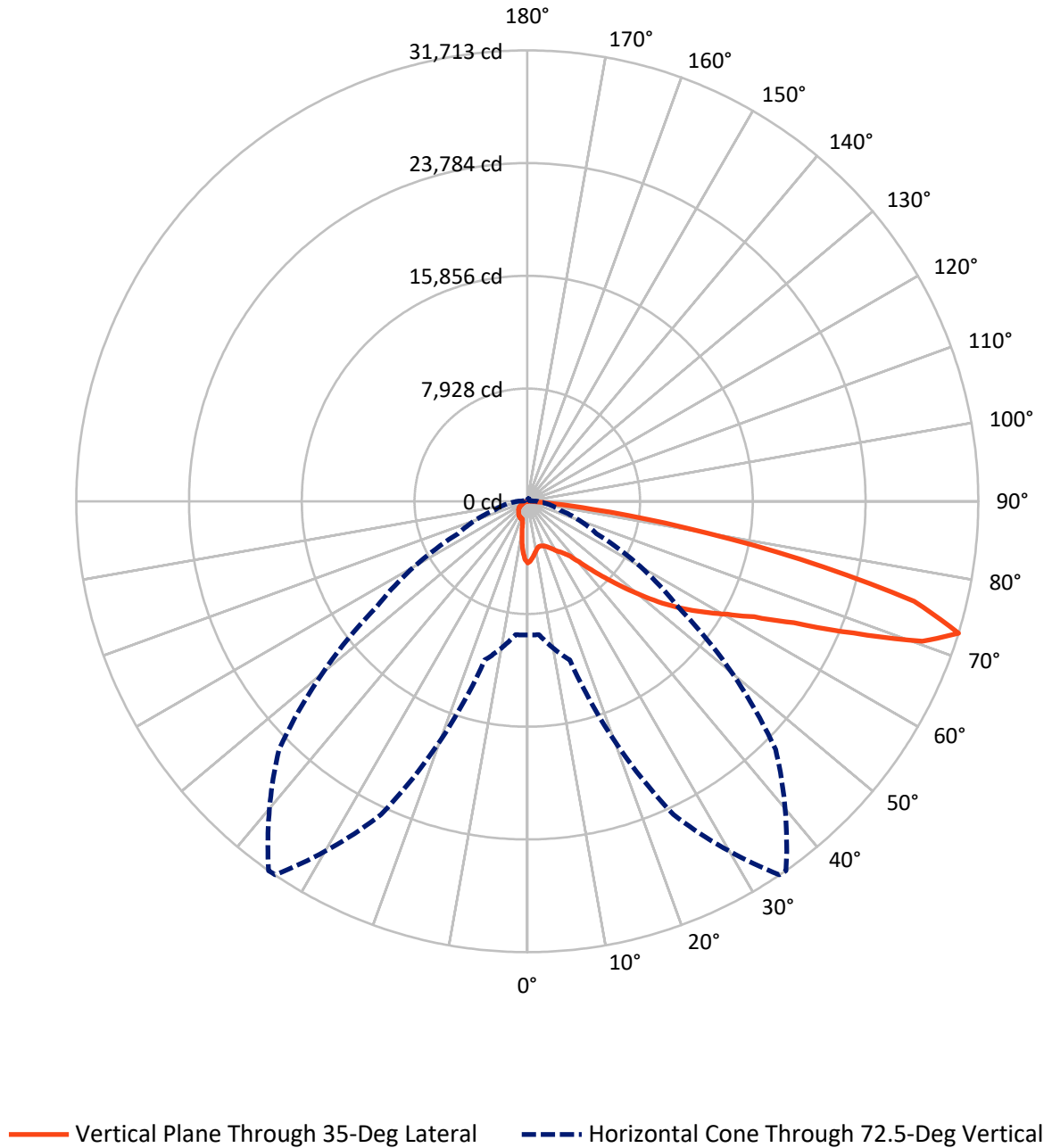
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type IV - Short - N/A

REPORT NUMBER: P942528
CATALOG NUMBER: GALN-SB6C-827-U-T4FT-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P942528
 CATALOG NUMBER: GALN-SB6C-827-U-T4FT-HSS

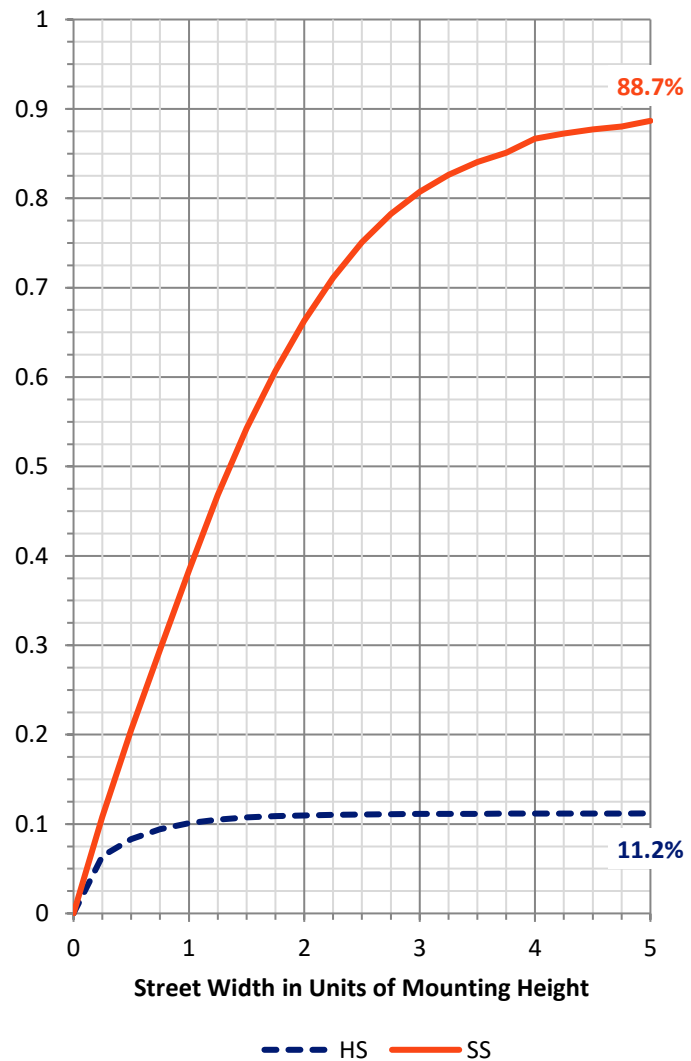
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3365.1	0.0	3365.1
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	26534.9	0.0	26534.9
	% Fixture	88.7	0.0	88.7
Total	Lumens	29900.0	0.0	29900.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	356.1	1.2
10°-20°	833.1	2.8
20°-30°	1353.3	4.5
30°-40°	2257.9	7.6
40°-50°	4272.0	14.3
50°-60°	6788.3	22.7
60°-70°	8397.5	28.1
70°-80°	5220.0	17.5
80°-90°	421.9	1.4
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°	29900.0	100.0
0°-180°	29900.0	100.0

Coefficient of Utilization



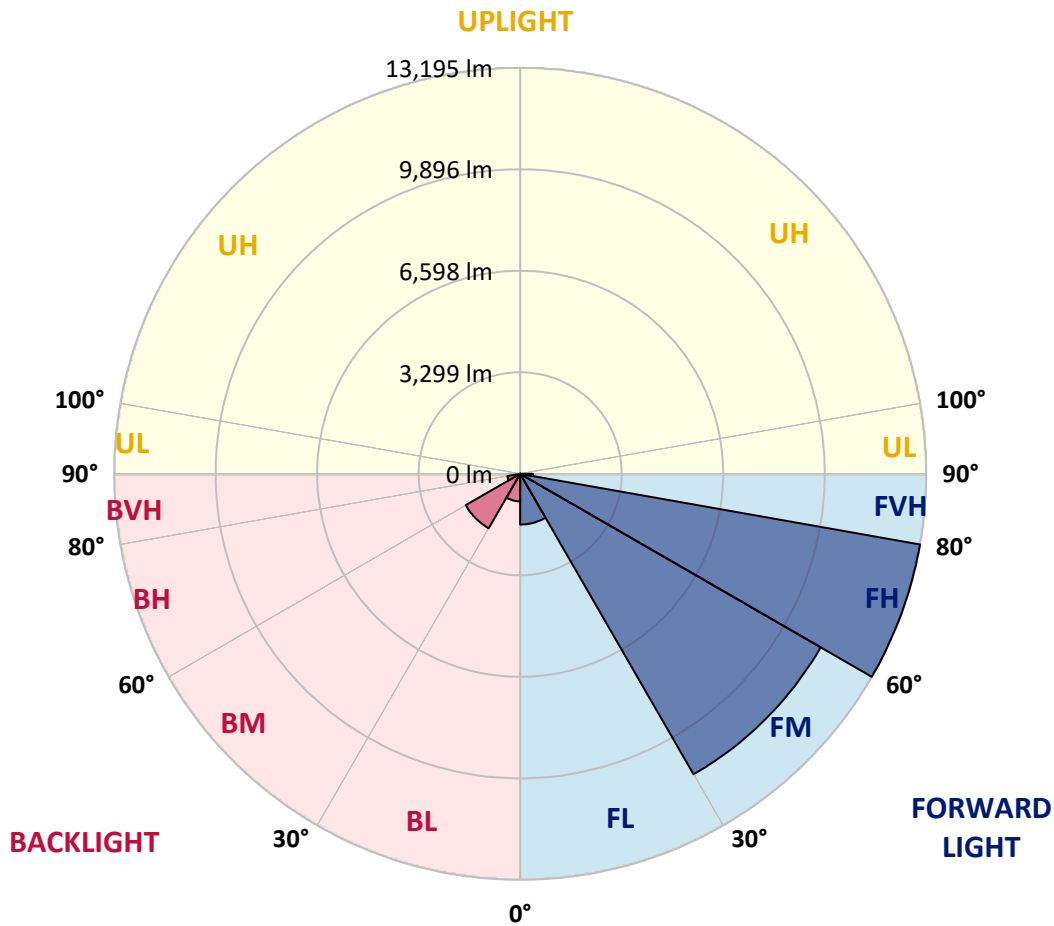
REPORT NUMBER: P942528
 CATALOG NUMBER: GALN-SB6C-827-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1648.2	5.5			
FM (30°-60°)	11275.3	37.7			
FH (60°-80°)	13195.2	44.1			G5
FVH (80°-90°)	416.1	1.4			G3/500
BL (0°-30°)	894.2	3.0	B2/1000		
BM (30°-60°)	2042.9	6.8	B2/2500		
BH (60°-80°)	422.3	1.4	B1/500		G1/500
BVH (80°-90°)	5.7	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-G5

Type IV Short



REPORT NUMBER: P942528

CATALOG NUMBER: GALN-SB6C-827-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	4333.5	4333.5	4333.5	4333.5	4333.5	4333.5	4333.5	4333.5	4333.5	4333.5
2.5°	4140.7	4175.8	4182.3	4193.3	4193.3	4206.4	4228.4	4259.0	4309.4	4335.7
5°	3816.5	3842.8	3875.6	3901.9	3952.3	3958.9	4044.3	4127.6	4243.7	4331.3
7.5°	3490.0	3520.7	3564.5	3628.1	3693.8	3713.5	3842.8	3983.0	4167.0	4331.3
10°	3260.0	3262.2	3301.6	3365.2	3470.3	3494.4	3652.2	3851.5	4081.6	4305.0
12.5°	3130.7	3146.1	3163.6	3211.8	3312.6	3327.9	3496.6	3731.0	3996.1	4289.7
15°	3130.7	3141.7	3152.6	3176.7	3257.8	3270.9	3419.9	3654.3	3952.3	4296.3
17.5°	3163.6	3181.1	3172.4	3200.8	3286.3	3295.0	3426.5	3632.4	3950.1	4337.9
20°	3242.5	3255.6	3238.1	3255.6	3341.1	3358.6	3494.4	3674.1	3987.4	4410.2
22.5°	3367.3	3373.9	3332.3	3345.4	3433.1	3455.0	3612.7	3792.4	4077.2	4526.3
25°	3525.1	3538.2	3474.7	3490.0	3573.3	3599.6	3781.4	3969.8	4219.6	4686.2
27.5°	3706.9	3713.5	3658.7	3656.5	3763.9	3801.1	3985.2	4188.9	4410.2	4887.8
30°	3915.1	3934.8	3882.2	3873.4	4009.3	4039.9	4221.8	4458.4	4690.6	5190.1
32.5°	4079.4	4094.7	4064.0	4085.9	4224.0	4248.1	4508.8	4839.6	5131.0	5619.5
35°	4316.0	4324.7	4254.6	4294.1	4451.8	4513.2	4900.9	5374.2	5685.3	6158.5
37.5°	5172.6	5172.6	4874.7	4679.7	4830.8	4885.6	5437.7	6046.8	6368.8	6881.5
40°	6357.9	6338.1	5902.2	5503.4	5483.7	5591.1	6202.3	6894.6	7251.7	7749.1
42.5°	7622.0	7591.3	6997.6	6603.2	6537.5	6574.8	7085.2	7939.7	8303.3	8807.2
45°	8743.7	8734.9	8191.6	7661.4	7543.1	7661.4	8187.2	9162.2	9422.9	9953.1
47.5°	9683.6	9683.6	9287.0	8940.9	8879.5	8949.6	9679.2	10518.3	10494.2	11173.4
50°	10765.9	10757.1	10380.3	10231.3	10294.8	10393.4	11396.8	11946.7	11602.8	12371.8
52.5°	11523.9	11576.5	11447.2	11423.1	11747.4	11918.3	13140.8	13344.5	12595.2	13508.8
55°	12124.2	12185.5	12334.5	12503.2	13127.6	13351.1	14829.9	14670.0	13425.6	14494.7
57.5°	12974.2	12886.6	13116.7	13449.7	14459.6	14729.1	16466.5	15920.9	14093.8	15294.4
60°	14006.1	14019.3	14058.7	14479.4	15789.5	16135.7	18078.9	17104.0	14523.2	15785.1
62.5°	15246.2	15265.9	15346.9	15993.2	17575.0	17901.5	19796.6	18072.4	14720.4	15647.1
65°	15160.7	15244.0	16148.8	18359.4	20289.5	20611.6	21801.2	18751.5	14422.4	14385.2
67.5°	13811.2	13947.0	15460.9	21185.6	24382.0	24741.3	24224.3	18885.2	13136.4	11186.5
70°	12040.9	12089.1	13909.7	23727.0	29120.9	29484.5	26393.2	17415.1	9968.4	6239.6
72.5°	9403.2	9414.1	11550.2	24316.3	31692.9	31712.6	24690.9	12928.2	5361.0	2396.8
75°	6717.2	6651.4	7735.9	19719.9	27883.0	28106.5	18510.5	6064.3	2048.5	1132.7
77.5°	3601.8	3674.1	4377.3	11694.8	19262.0	19643.2	10099.8	1748.3	1042.8	771.2
80°	1113.0	1174.3	1794.3	5354.5	10910.5	11140.5	3744.2	777.8	727.4	549.9
82.5°	350.5	363.7	836.9	2250.0	4528.5	4633.7	1084.5	440.4	497.3	363.7
85°	100.8	103.0	372.4	839.1	1119.5	1141.4	304.5	170.9	284.8	225.7
87.5°	11.0	35.1	140.2	140.2	98.6	96.4	32.9	37.2	81.1	28.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P942528
 CATALOG NUMBER: GALN-SB6C-827-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4333.5	0°	4333.5	4333.5	4333.5	4333.5	4333.5	4333.5	4333.5	4333.5	4333.5	4333.5
4353.2	2.5°	4342.3	4344.5	4316.0	4267.8	4215.2	4171.4	4116.6	4072.8	4042.1	4033.4
4392.7	5°	4372.9	4357.6	4276.6	4129.8	3954.5	3803.3	3634.6	3501.0	3413.4	3376.1
4434.3	7.5°	4419.0	4375.1	4197.7	3908.5	3573.3	3275.3	2973.0	2738.6	2589.6	2515.1
4473.7	10°	4458.4	4370.8	4066.2	3588.6	3076.0	2624.6	2217.1	1934.5	1776.8	1702.3
4519.7	12.5°	4495.6	4368.6	3895.3	3209.6	2515.1	1963.0	1584.0	1443.8	1400.0	1384.6
4594.2	15°	4565.7	4375.1	3680.6	2775.8	1956.4	1483.2	1345.2	1343.0	1351.8	1347.4
4708.1	17.5°	4662.1	4381.7	3437.5	2315.7	1509.5	1307.9	1301.4	1321.1	1334.2	1327.7
4850.6	20°	4787.0	4408.0	3178.9	1860.0	1297.0	1264.1	1279.5	1297.0	1307.9	1297.0
5041.2	22.5°	4962.3	4454.0	2896.3	1494.2	1229.1	1237.8	1251.0	1270.7	1281.7	1266.3
5284.3	25°	5177.0	4526.3	2618.1	1299.2	1196.2	1207.2	1226.9	1248.8	1261.9	1246.6
5591.1	27.5°	5455.2	4642.4	2361.7	1255.4	1163.3	1169.9	1198.4	1231.3	1248.8	1229.1
6027.0	30°	5858.3	4833.0	2140.5	1275.1	1143.6	1128.3	1167.7	1213.7	1233.5	1215.9
6620.8	32.5°	6392.9	5102.5	2004.6	1305.7	1134.9	1080.1	1117.3	1176.5	1209.4	1198.4
7396.3	35°	7094.0	5512.2	1952.1	1340.8	1128.3	1029.7	1056.0	1119.5	1176.5	1187.4
8373.5	37.5°	7944.0	6081.8	1967.4	1356.1	1108.6	988.1	1001.2	1056.0	1130.5	1165.5
9473.3	40°	8910.2	6745.6	2055.0	1340.8	1086.7	953.0	955.2	996.8	1062.6	1115.1
10656.3	42.5°	9907.0	7521.2	2217.1	1283.8	1066.9	922.4	915.8	944.3	988.1	1025.3
11837.2	45°	10855.7	8318.7	2377.1	1205.0	1042.8	891.7	876.3	887.3	896.1	911.4
12987.4	47.5°	11683.8	8879.5	2331.1	1132.7	1010.0	856.6	830.3	826.0	799.7	797.5
14014.9	50°	12255.6	9002.2	2070.4	1060.4	961.8	817.2	775.6	749.3	703.3	681.4
14783.9	52.5°	12437.5	8518.0	1691.3	988.1	882.9	764.6	705.5	663.8	606.9	587.1
15226.4	55°	12196.5	7569.4	1351.8	900.4	773.4	694.5	628.8	574.0	528.0	503.9
15274.6	57.5°	11607.2	6362.2	1069.1	797.5	657.3	615.6	549.9	495.1	455.7	431.6
14740.1	60°	10630.0	5052.1	845.7	674.8	560.9	530.2	462.3	427.2	392.2	363.7
13359.8	62.5°	9146.8	3606.1	663.8	534.6	468.8	433.8	394.4	368.1	326.4	287.0
10877.6	65°	7137.8	2206.2	512.7	392.2	376.8	359.3	335.2	311.1	260.7	221.3
7096.2	67.5°	4502.2	1045.0	365.9	295.8	298.0	289.2	278.2	258.5	221.3	186.2
3178.9	70°	1982.7	506.1	241.0	225.7	221.3	221.3	230.0	223.5	188.4	155.6
1104.2	72.5°	674.8	271.7	179.7	170.9	159.9	157.7	192.8	186.2	151.2	120.5
549.9	75°	352.7	181.8	131.5	122.7	96.4	116.1	153.4	144.6	107.4	78.9
363.7	77.5°	230.0	129.3	89.8	78.9	54.8	76.7	113.9	100.8	63.5	39.4
238.8	80°	144.6	85.4	52.6	37.2	26.3	41.6	61.3	43.8	24.1	8.8
140.2	82.5°	76.7	43.8	19.7	13.1	11.0	13.1	15.3	11.0	4.4	0.0
72.3	85°	30.7	15.3	6.6	4.4	2.2	0.0	4.4	2.2	0.0	0.0
13.1	87.5°	11.0	2.2	0.0	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

(END O

<u>180°</u>
4333.5
4048.7
3389.3
2526.1
1704.5
1380.2
1345.2
1325.5
1294.8
1264.1
1244.4
1229.1
1213.7
1198.4
1187.4
1174.3
1132.7
1040.7
920.2
795.3
683.5
585.0
503.9
427.2
357.1
280.4
214.7
181.8
149.0
113.9
72.3
35.1
6.6
0.0
0.0
0.0
0.0

F REPORT)