

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: P941638

Luminaire Tested: **GALN-SB5B-735-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941638
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-SB5B-735-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3500K, 450mA 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: 21537 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

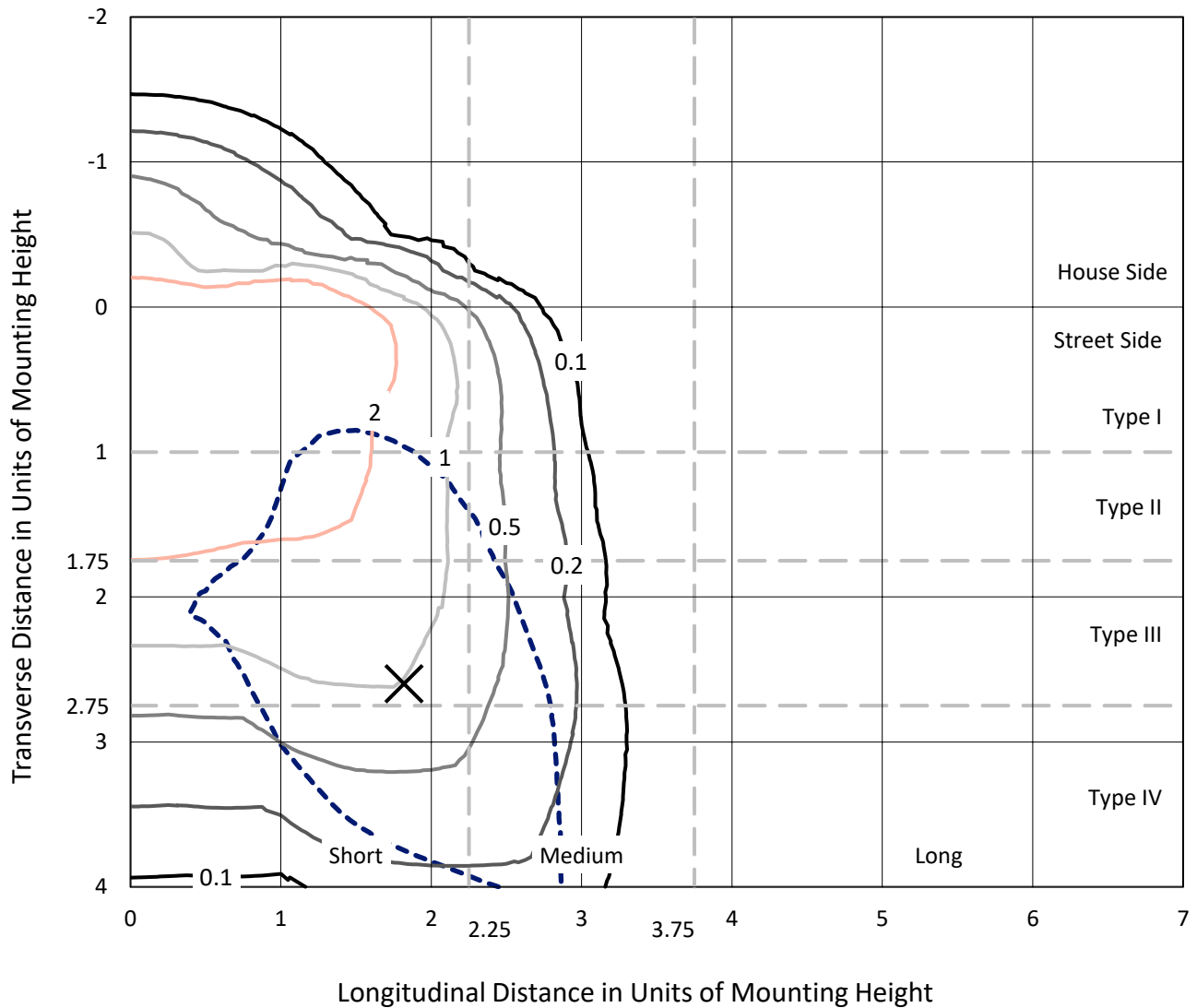
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P941638
 CATALOG NUMBER: GALN-SB5B-735-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

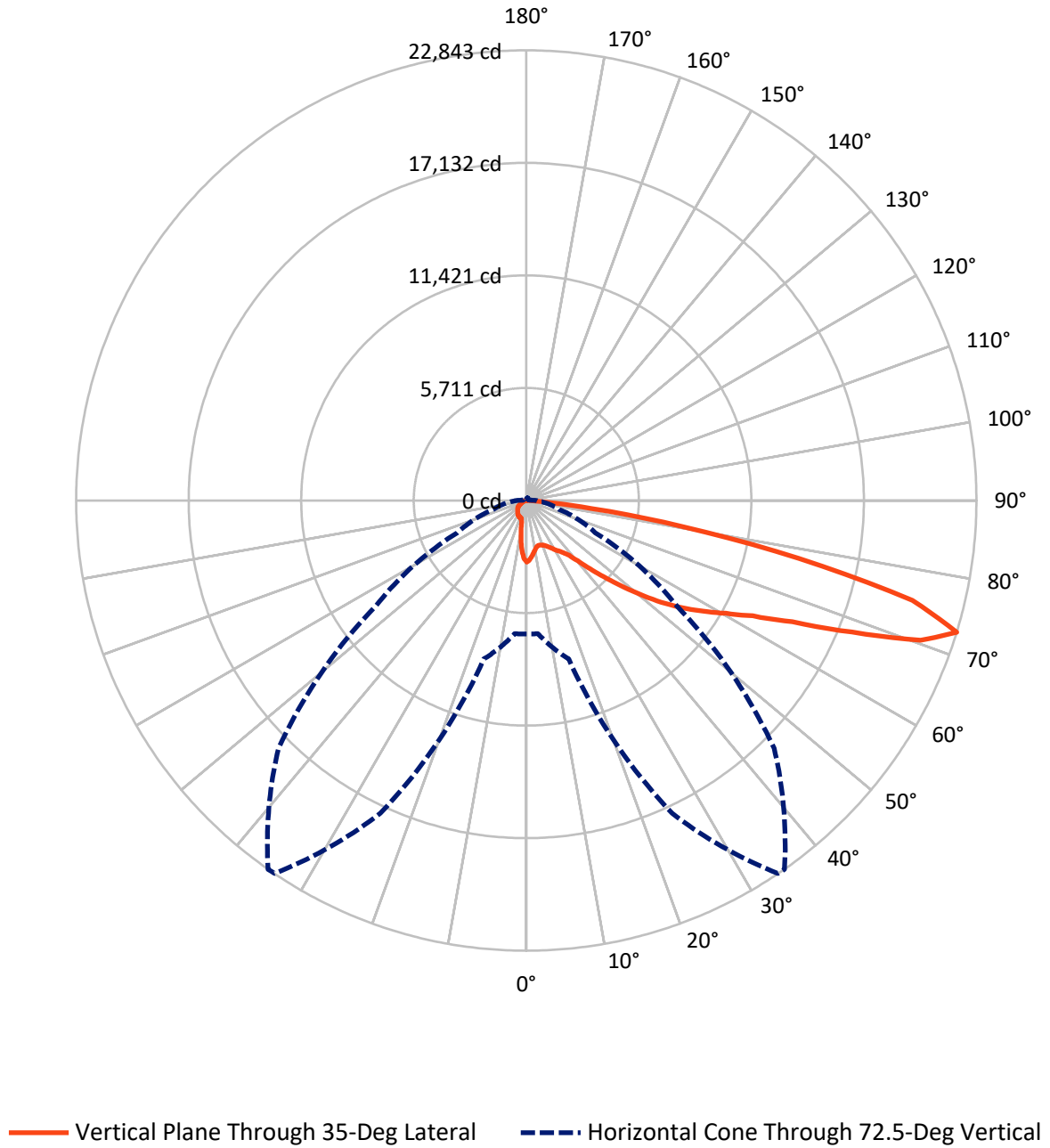
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P941638
CATALOG NUMBER: GALN-SB5B-735-U-T4FT-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P941638
 CATALOG NUMBER: GALN-SB5B-735-U-T4FT-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2423.9	0.0	2423.9
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	19113.1	0.0	19113.1
	% Fixture	88.7	0.0	88.7
Total	Lumens	21537.0	0.0	21537.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.5	1.2
10°-20°	600.0	2.8
20°-30°	974.8	4.5
30°-40°	1626.4	7.6
40°-50°	3077.2	14.3
50°-60°	4889.6	22.7
60°-70°	6048.8	28.1
70°-80°	3760.0	17.5
80°-90°	303.9	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°	21537.0	100.0
0°-180°	21537.0	100.0

Coefficient of Utilization



REPORT NUMBER: P941638

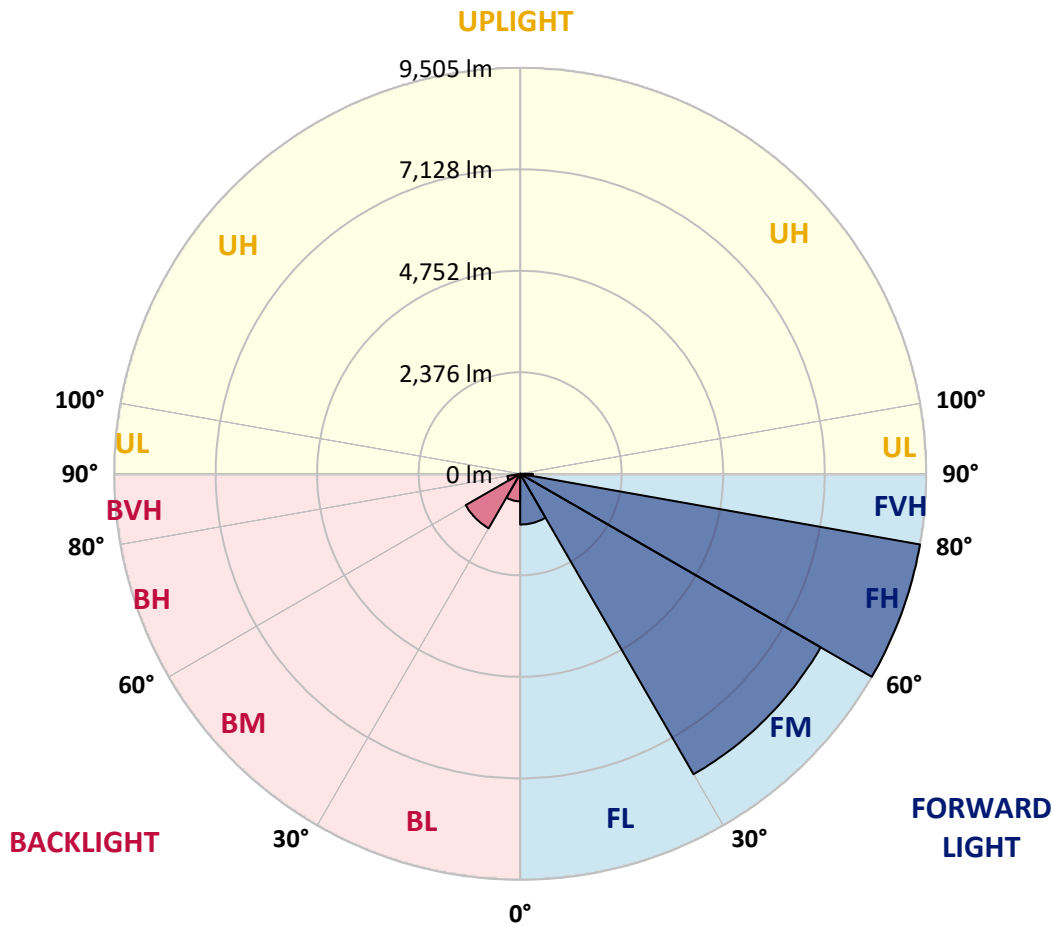
CATALOG NUMBER: GALN-SB5B-735-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1187.2	5.5			
FM (30°-60°)	8121.6	37.7			
FH (60°-80°)	9504.5	44.1			G4/12000
FVH (80°-90°)	299.7	1.4			G3/500
BL (0°-30°)	644.1	3.0	B2/1000		
BM (30°-60°)	1471.5	6.8	B2/2500		
BH (60°-80°)	304.2	1.4	B1/500		G1/500
BVH (80°-90°)	4.1	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-G4

Type IV Short



REPORT NUMBER: P941638
 CATALOG NUMBER: GALN-SB5B-735-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	3121.4	3121.4	3121.4	3121.4	3121.4	3121.4	3121.4	3121.4	3121.4	3121.4
2.5°	2982.6	3007.8	3012.5	3020.4	3020.4	3029.9	3045.7	3067.8	3104.1	3123.0
5°	2749.0	2767.9	2791.6	2810.6	2846.8	2851.6	2913.1	2973.1	3056.7	3119.9
7.5°	2513.9	2536.0	2567.5	2613.3	2660.6	2674.8	2767.9	2868.9	3001.5	3119.9
10°	2348.2	2349.8	2378.2	2423.9	2499.7	2517.0	2630.7	2774.3	2940.0	3100.9
12.5°	2255.1	2266.1	2278.7	2313.5	2386.1	2397.1	2518.6	2687.5	2878.4	3089.9
15°	2255.1	2263.0	2270.9	2288.2	2346.6	2356.1	2463.4	2632.2	2846.8	3094.6
17.5°	2278.7	2291.4	2285.1	2305.6	2367.1	2373.4	2468.1	2616.4	2845.3	3124.6
20°	2335.6	2345.0	2332.4	2345.0	2406.6	2419.2	2517.0	2646.4	2872.1	3176.7
22.5°	2425.5	2430.2	2400.3	2409.7	2472.8	2488.6	2602.2	2731.6	2936.8	3260.3
25°	2539.1	2548.6	2502.8	2513.9	2573.8	2592.8	2723.8	2859.5	3039.4	3375.5
27.5°	2670.1	2674.8	2635.4	2633.8	2711.1	2738.0	2870.5	3017.3	3176.7	3520.7
30°	2820.0	2834.2	2796.3	2790.0	2887.9	2910.0	3041.0	3211.4	3378.7	3738.5
32.5°	2938.4	2949.4	2927.3	2943.1	3042.5	3059.9	3247.7	3486.0	3695.9	4047.8
35°	3108.8	3115.1	3064.6	3093.0	3206.6	3250.8	3530.2	3871.0	4095.1	4436.0
37.5°	3725.8	3725.8	3511.2	3370.8	3479.7	3519.1	3916.8	4355.5	4587.5	4956.7
40°	4579.6	4565.4	4251.3	3964.1	3949.9	4027.2	4467.5	4966.2	5223.4	5581.7
42.5°	5490.1	5468.0	5040.4	4756.3	4709.0	4735.8	5103.5	5718.9	5980.9	6343.9
45°	6298.1	6291.8	5900.4	5518.5	5433.3	5518.5	5897.3	6599.5	6787.3	7169.2
47.5°	6975.1	6975.1	6689.5	6440.1	6395.9	6446.4	6971.9	7576.3	7559.0	8048.2
50°	7754.7	7748.4	7476.9	7369.6	7415.4	7486.4	8209.1	8605.2	8357.5	8911.4
52.5°	8300.7	8338.6	8245.4	8228.1	8461.6	8584.7	9465.3	9612.1	9072.4	9730.4
55°	8733.1	8777.3	8884.6	9006.1	9455.8	9616.8	10682.0	10566.8	9670.4	10440.5
57.5°	9345.4	9282.2	9447.9	9687.8	10415.3	10609.4	11860.8	11467.9	10151.8	11016.5
60°	10088.6	10098.1	10126.5	10429.5	11373.2	11622.5	13022.3	12320.0	10461.1	11370.0
62.5°	10981.8	10996.0	11054.4	11520.0	12659.3	12894.5	14259.5	13017.5	10603.1	11270.6
65°	10920.3	10980.2	11632.0	13224.3	14614.6	14846.5	15703.4	13506.7	10388.5	10361.6
67.5°	9948.2	10046.0	11136.5	15260.0	17562.4	17821.2	17448.8	13603.0	9462.1	8057.7
70°	8673.1	8707.8	10019.2	17090.6	20975.8	21237.7	19011.1	12544.1	7180.2	4494.4
72.5°	6773.1	6781.0	8319.6	17515.1	22828.4	22842.6	17784.9	9312.2	3861.6	1726.4
75°	4838.4	4791.0	5572.2	14204.3	20084.2	20245.1	13333.2	4368.1	1475.5	815.9
77.5°	2594.4	2646.4	3153.0	8423.8	13874.4	14149.0	7274.9	1259.3	751.2	555.5
80°	801.7	845.8	1292.4	3856.8	7858.8	8024.5	2696.9	560.2	523.9	396.1
82.5°	252.5	262.0	602.8	1620.7	3261.9	3337.6	781.1	317.2	358.2	262.0
85°	72.6	74.2	268.3	604.4	806.4	822.2	219.4	123.1	205.1	162.5
87.5°	7.9	25.2	101.0	101.0	71.0	69.4	23.7	26.8	58.4	20.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P941638
 CATALOG NUMBER: GALN-SB5B-735-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3121.4	0°	3121.4	3121.4	3121.4	3121.4	3121.4	3121.4	3121.4	3121.4	3121.4	3121.4
3135.6	2.5°	3127.7	3129.3	3108.8	3074.1	3036.2	3004.7	2965.2	2933.6	2911.5	2905.2
3164.0	5°	3149.8	3138.8	3080.4	2974.7	2848.4	2739.5	2618.0	2521.8	2458.6	2431.8
3194.0	7.5°	3183.0	3151.4	3023.6	2815.3	2573.8	2359.2	2141.4	1972.6	1865.3	1811.6
3222.4	10°	3211.4	3148.3	2928.9	2584.9	2215.6	1890.5	1597.0	1393.4	1279.8	1226.2
3255.6	12.5°	3238.2	3146.7	2805.8	2311.9	1811.6	1414.0	1140.9	1040.0	1008.4	997.3
3309.2	15°	3288.7	3151.4	2651.2	1999.4	1409.2	1068.4	968.9	967.4	973.7	970.5
3391.3	17.5°	3358.1	3156.2	2476.0	1668.0	1087.3	942.1	937.4	951.6	961.0	956.3
3493.9	20°	3448.1	3175.1	2289.8	1339.8	934.2	910.5	921.6	934.2	942.1	934.2
3631.2	22.5°	3574.3	3208.2	2086.2	1076.2	885.3	891.6	901.1	915.3	923.2	912.1
3806.3	25°	3729.0	3260.3	1885.8	935.8	861.6	869.5	883.7	899.5	909.0	897.9
4027.2	27.5°	3929.4	3343.9	1701.2	904.2	838.0	842.7	863.2	886.9	899.5	885.3
4341.3	30°	4219.8	3481.2	1541.8	918.4	823.8	812.7	841.1	874.3	888.5	875.8
4768.9	32.5°	4604.8	3675.3	1443.9	940.5	817.4	778.0	804.8	847.4	871.1	863.2
5327.6	35°	5109.8	3970.4	1406.1	965.8	812.7	741.7	760.6	806.4	847.4	855.3
6031.4	37.5°	5722.1	4380.7	1417.1	976.8	798.5	711.7	721.2	760.6	814.3	839.5
6823.6	40°	6418.0	4858.9	1480.2	965.8	782.7	686.5	688.0	718.0	765.4	803.2
7675.8	42.5°	7136.1	5417.5	1597.0	924.8	768.5	664.4	659.6	680.2	711.7	738.5
8526.3	45°	7819.4	5992.0	1712.2	867.9	751.2	642.3	631.2	639.1	645.4	656.5
9354.8	47.5°	8415.9	6395.9	1679.1	815.9	727.5	617.0	598.1	594.9	576.0	574.4
10094.9	50°	8827.8	6484.3	1491.3	763.8	692.8	588.6	558.6	539.7	506.6	490.8
10648.9	52.5°	8958.7	6135.6	1218.3	711.7	636.0	550.7	508.1	478.2	437.1	422.9
10967.6	55°	8785.1	5452.3	973.7	648.6	557.1	500.2	452.9	413.5	380.3	363.0
11002.3	57.5°	8360.6	4582.7	770.1	574.4	473.4	443.4	396.1	356.6	328.2	310.9
10617.3	60°	7656.8	3639.0	609.1	486.0	404.0	381.9	333.0	307.7	282.5	262.0
9623.1	62.5°	6588.5	2597.5	478.2	385.1	337.7	312.5	284.1	265.1	235.1	206.7
7835.1	65°	5141.4	1589.1	369.3	282.5	271.4	258.8	241.4	224.1	187.8	159.4
5111.4	67.5°	3242.9	752.7	263.5	213.0	214.6	208.3	200.4	186.2	159.4	134.1
2289.8	70°	1428.2	364.5	173.6	162.5	159.4	159.4	165.7	161.0	135.7	112.0
795.4	72.5°	486.0	195.7	129.4	123.1	115.2	113.6	138.9	134.1	108.9	86.8
396.1	75°	254.1	131.0	94.7	88.4	69.4	83.6	110.5	104.2	77.3	56.8
262.0	77.5°	165.7	93.1	64.7	56.8	39.5	55.2	82.1	72.6	45.8	28.4
172.0	80°	104.2	61.5	37.9	26.8	18.9	30.0	44.2	31.6	17.4	6.3
101.0	82.5°	55.2	31.6	14.2	9.5	7.9	9.5	11.0	7.9	3.2	0.0
52.1	85°	22.1	11.0	4.7	3.2	1.6	0.0	3.2	1.6	0.0	0.0
9.5	87.5°	7.9	1.6	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>
3121.4
2916.3
2441.3
1819.5
1227.7
994.2
968.9
954.7
932.6
910.5
896.3
885.3
874.3
863.2
855.3
845.8
815.9
749.6
662.8
572.8
492.4
421.3
363.0
307.7
257.2
202.0
154.7
131.0
107.3
<i>82.1</i>
52.1
25.2
4.7
0.0
0.0
0.0
0.0

F REPORT)