

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: P947909

Luminaire Tested: **GALN-SB3A-840-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947909
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3A-840-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10900 lumens
Efficiency: N/A
Efficacy: 128.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

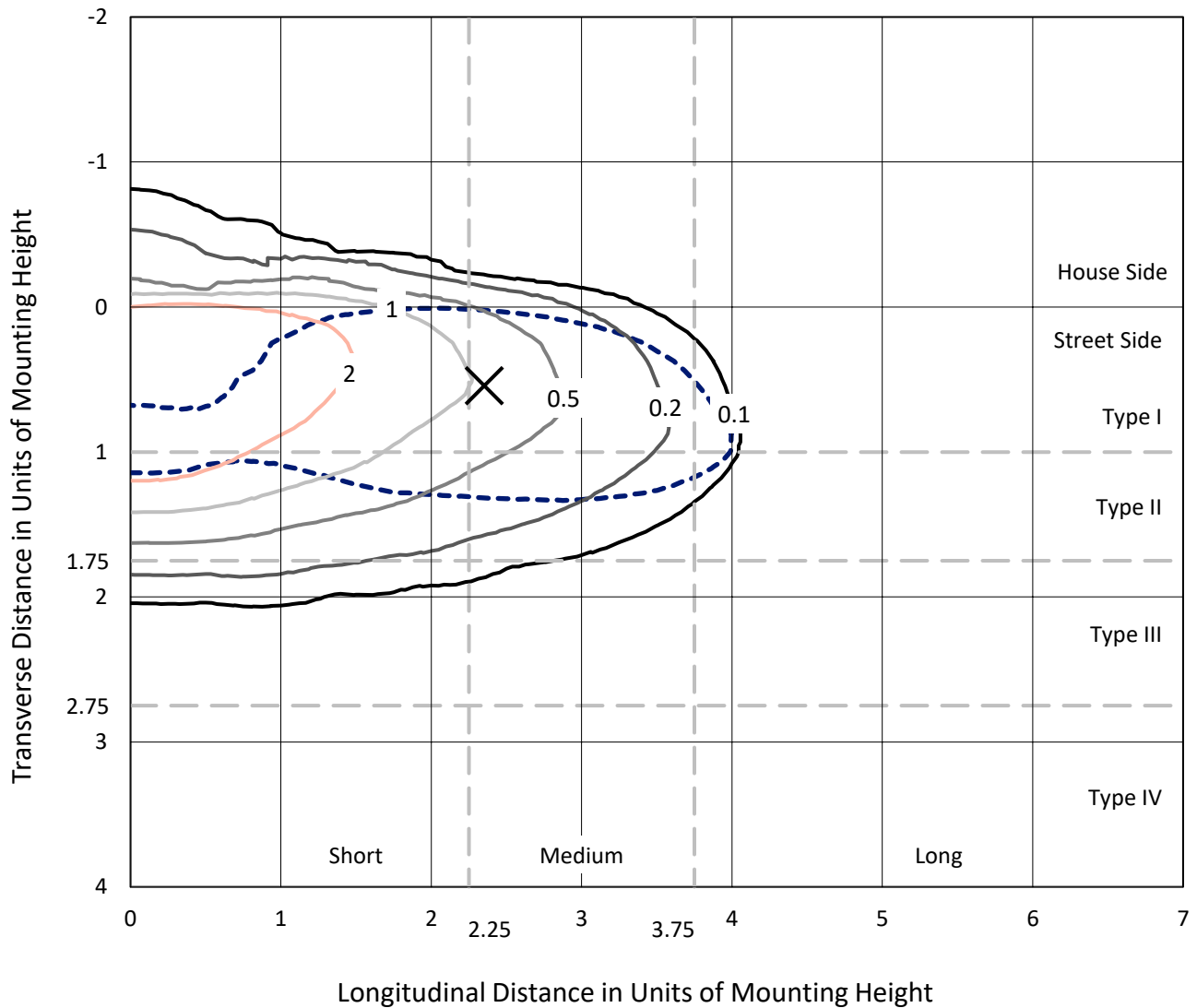
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P947909
 CATALOG NUMBER: GALN-SB3A-840-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

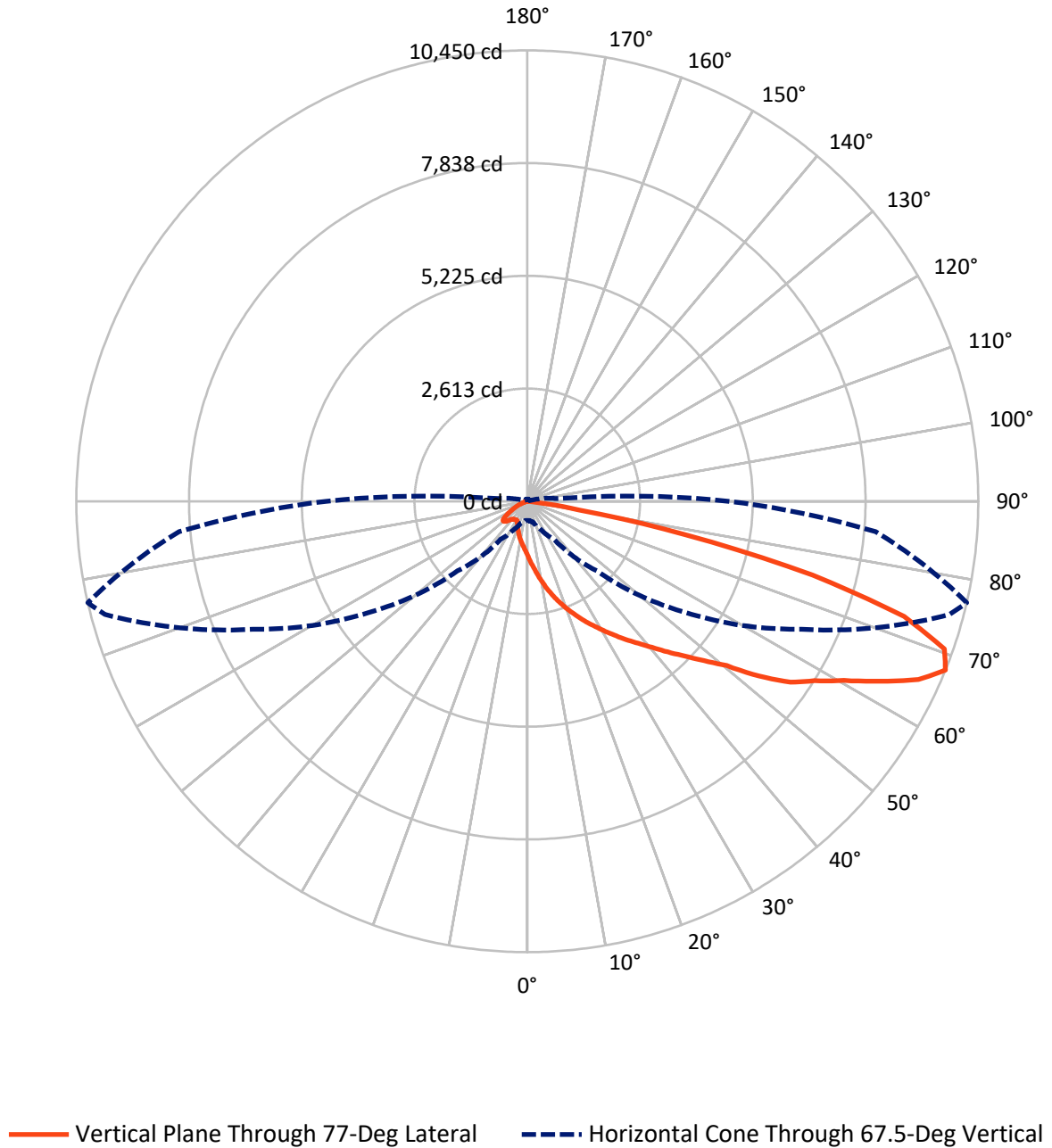
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type II - Medium - N/A

REPORT NUMBER: P947909
CATALOG NUMBER: GALN-SB3A-840-U-T2R-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P947909
 CATALOG NUMBER: GALN-SB3A-840-U-T2R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	801.9	0.0	801.9
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	10098.1	0.0	10098.1
	% Fixture	92.6	0.0	92.6
Total	Lumens	10900.0	0.0	10900.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.3	1.2
10°-20°	449.3	4.1
20°-30°	866.9	8.0
30°-40°	1505.1	13.8
40°-50°	2185.3	20.0
50°-60°	2509.5	23.0
60°-70°	2178.7	20.0
70°-80°	1026.2	9.4
80°-90°	50.8	0.5
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°	10900.0	100.0
0°-180°	10900.0	100.0

Coefficient of Utilization



REPORT NUMBER: P947909

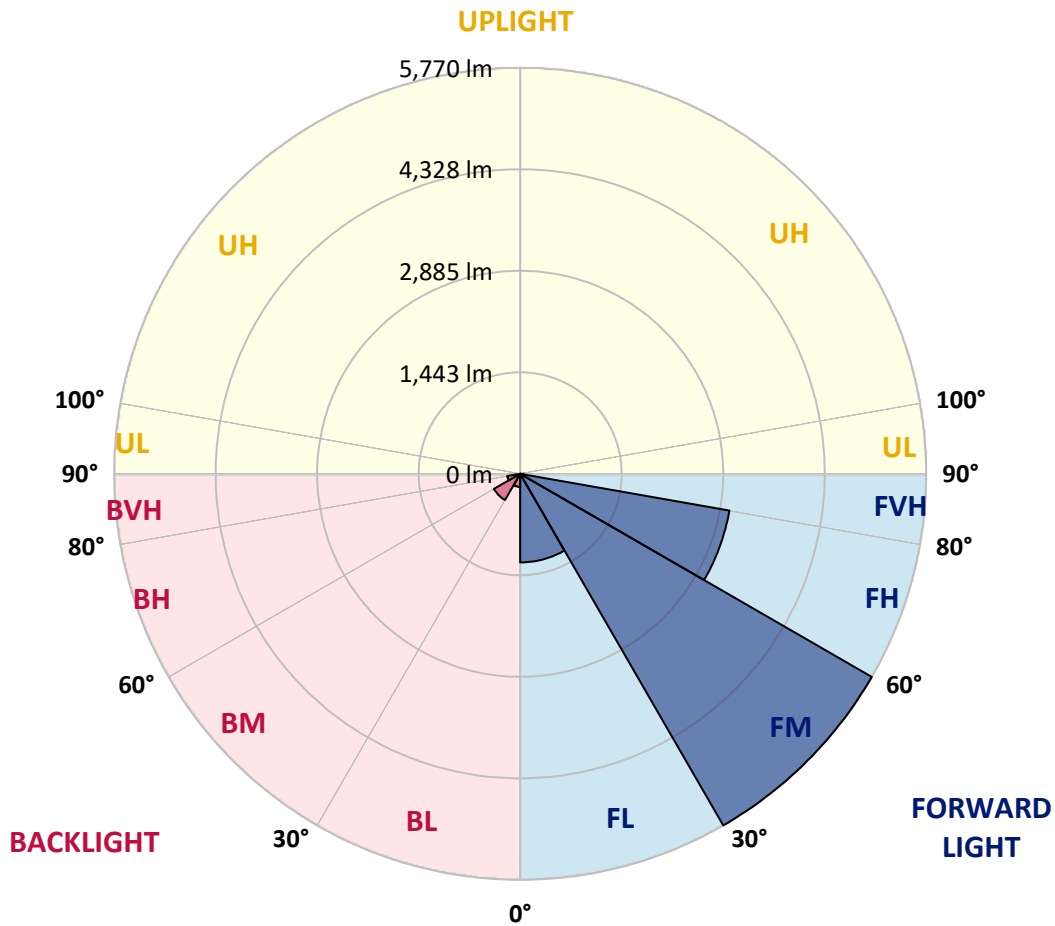
CATALOG NUMBER: GALN-SB3A-840-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1258.8	11.5			
FM (30°-60°)	5770.2	52.9			
FH (60°-80°)	3019.3	27.7			G2/5000
FVH (80°-90°)	49.8	0.5			G1/100
BL (0°-30°)	185.7	1.7	B1/500		
BM (30°-60°)	429.7	3.9	B1/1000		
BH (60°-80°)	185.7	1.7	B1/500		G1/500
BVH (80°-90°)	0.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Medium



REPORT NUMBER: P947909

CATALOG NUMBER: GALN-SB3A-840-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1256.9	1256.9	1256.9	1256.9	1256.9	1256.9	1256.9	1256.9	1256.9	1256.9
2.5°	1740.2	1751.0	1735.5	1705.7	1661.0	1631.9	1560.8	1493.8	1419.4	1395.7
5°	2121.3	2130.8	2113.2	2080.7	2021.1	1964.2	1870.8	1730.7	1585.2	1538.5
7.5°	2403.5	2408.9	2402.2	2372.4	2315.5	2251.2	2147.0	1981.2	1765.3	1713.8
10°	2606.6	2624.2	2622.2	2610.7	2572.7	2520.6	2409.6	2220.8	1967.0	1900.6
12.5°	2741.3	2760.9	2772.4	2798.1	2796.1	2762.9	2665.5	2465.8	2168.0	2090.1
15°	2780.5	2801.5	2845.5	2905.1	2957.9	2974.8	2906.4	2706.1	2389.3	2289.8
17.5°	2758.2	2790.7	2843.5	2937.6	3053.3	3129.8	3122.4	2938.3	2590.3	2476.6
20°	2807.6	2838.8	2880.0	2959.2	3093.9	3232.7	3288.2	3160.3	2790.0	2670.9
22.5°	3081.1	3075.7	3079.7	3092.6	3173.1	3310.5	3424.9	3362.0	2987.7	2865.8
25°	3514.3	3489.9	3448.6	3378.9	3358.6	3424.9	3544.0	3540.7	3196.1	3065.5
27.5°	4011.1	4007.0	3910.2	3742.4	3647.6	3621.9	3678.7	3714.6	3402.6	3263.1
30°	4486.9	4497.7	4367.1	4180.3	4006.3	3905.5	3854.0	3879.8	3612.4	3476.4
32.5°	4901.1	4912.7	4770.5	4551.9	4336.6	4214.8	4106.5	4042.9	3841.2	3693.0
35°	5251.1	5262.6	5099.5	4857.8	4628.4	4518.0	4395.5	4221.6	4071.3	3933.2
37.5°	5563.8	5560.4	5341.8	5098.1	4872.7	4785.4	4721.1	4441.6	4308.2	4174.9
40°	5748.6	5762.8	5576.0	5307.3	5088.6	5025.0	5021.0	4714.3	4581.7	4452.4
42.5°	5802.7	5827.8	5692.4	5471.7	5273.4	5204.4	5310.6	5009.4	4899.8	4773.9
45°	5705.3	5729.6	5668.0	5515.1	5399.3	5354.6	5559.7	5315.4	5239.6	5115.0
47.5°	5421.0	5451.4	5466.3	5433.8	5432.5	5477.8	5783.1	5637.6	5643.0	5515.7
50°	4870.7	4922.1	5058.9	5173.9	5351.9	5575.3	6000.4	5986.8	6097.8	5988.2
52.5°	3870.3	3943.4	4414.5	4729.2	5129.2	5557.0	6239.3	6547.3	6895.9	6735.4
55°	3110.2	3110.2	3493.3	4082.1	4694.7	5436.5	6343.5	6911.4	7439.4	7401.5
57.5°	2535.5	2566.0	2810.3	3330.8	4065.9	5149.6	6407.8	7140.2	7877.3	7849.6
60°	1564.9	1630.6	2092.2	2605.9	3350.5	4638.5	6367.2	7371.7	8408.6	8431.0
62.5°	881.3	905.6	1111.4	1874.9	2605.2	3951.5	6056.5	7501.0	9088.2	9183.0
65°	608.5	620.7	699.9	1166.9	1805.9	3146.0	5449.4	7420.4	9769.1	9960.7
67.5°	442.0	448.1	497.5	712.7	1071.5	2281.0	4497.7	7014.3	10129.9	10450.1
70°	339.8	343.8	379.7	468.4	632.9	1407.9	3266.5	6206.8	9868.6	10251.1
72.5°	276.2	280.2	308.0	346.6	419.7	832.5	1979.8	5040.6	8715.3	9128.1
75°	232.8	238.3	263.3	288.3	329.0	534.7	928.7	3510.2	6554.0	6824.8
77.5°	129.3	119.1	213.9	238.9	277.5	338.4	434.5	2065.8	3670.6	3745.7
80°	80.5	83.3	169.9	192.2	213.2	170.6	199.0	795.3	1272.5	1208.9
82.5°	4.7	10.8	130.6	138.8	146.2	73.1	75.1	270.1	306.6	281.6
85°	0.0	0.0	59.6	48.1	50.8	21.0	21.7	62.9	41.3	44.7
87.5°	0.0	0.0	0.0	1.4	0.0	2.0	4.1	5.4	2.0	2.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P947909
 CATALOG NUMBER: GALN-SB3A-840-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1256.9	0°	1256.9	1256.9	1256.9	1256.9	1256.9	1256.9	1256.9	1256.9	1256.9	1256.9
1321.2	2.5°	1273.9	1226.5	1130.4	1036.3	959.8	888.7	838.0	789.9	765.5	764.2
1406.5	5°	1312.4	1212.9	1020.7	850.8	714.1	604.4	533.4	482.6	456.9	448.1
1511.4	7.5°	1366.6	1217.0	924.6	688.4	527.3	433.2	392.6	376.3	370.9	364.8
1629.9	10°	1434.9	1226.5	838.6	554.3	415.6	368.2	352.0	345.2	341.1	337.1
1763.2	12.5°	1511.4	1235.3	753.3	460.3	365.5	341.1	329.6	321.5	316.1	311.4
1899.9	15°	1585.9	1240.7	664.7	394.6	339.8	320.2	308.0	299.2	291.7	286.3
2034.0	17.5°	1659.7	1248.1	581.4	355.4	318.8	299.2	287.0	276.2	270.1	264.0
2174.8	20°	1741.6	1246.8	502.9	327.6	297.8	278.2	265.3	255.2	249.1	242.3
2323.7	22.5°	1817.4	1240.0	433.9	303.9	276.2	257.2	243.0	232.8	226.7	221.3
2476.0	25°	1904.7	1234.6	376.3	282.3	255.9	236.9	221.3	211.9	205.1	200.4
2628.9	27.5°	1988.6	1226.5	334.4	262.6	236.2	217.9	203.1	192.2	186.1	182.8
2786.6	30°	2071.2	1224.4	318.8	243.7	218.6	200.4	185.5	175.3	170.6	169.2
2959.9	32.5°	2170.7	1229.9	325.6	236.9	202.4	184.1	169.9	162.4	157.7	157.7
3152.8	35°	2277.0	1228.5	335.7	243.0	191.6	167.9	157.0	152.3	147.6	147.6
3366.7	37.5°	2410.3	1230.5	343.8	253.1	187.5	154.3	148.2	142.1	139.4	139.4
3600.9	40°	2609.3	1297.5	339.8	261.9	186.1	144.8	132.7	130.6	128.6	128.6
3865.6	42.5°	2853.0	1443.1	345.2	262.6	185.5	138.1	121.8	125.9	121.2	120.5
4164.0	45°	3119.7	1602.1	379.7	248.4	184.8	134.7	116.4	121.2	113.7	113.7
4509.9	47.5°	3384.3	1759.8	414.9	228.1	182.8	134.0	111.7	109.0	106.9	107.6
4960.7	50°	3749.1	1888.4	428.5	200.4	178.0	132.7	102.9	103.6	102.2	103.6
5596.3	52.5°	4146.4	1915.5	412.2	169.2	164.5	128.6	96.8	99.5	98.8	100.2
6043.7	55°	4394.2	1886.4	340.5	140.8	143.5	112.4	90.7	96.1	96.1	96.1
6480.9	57.5°	4650.0	1762.5	241.6	114.4	119.1	92.1	85.3	92.7	92.1	91.4
7007.5	60°	4834.1	1562.2	159.1	94.1	94.8	75.8	79.2	87.3	86.6	83.3
7550.4	62.5°	4971.5	1340.9	102.2	79.9	72.4	68.4	72.4	79.2	76.5	69.0
8010.6	65°	4956.0	1034.2	78.5	68.4	59.6	59.6	62.9	69.0	60.9	48.7
8098.6	67.5°	4667.0	699.9	65.0	57.5	50.1	49.4	52.1	57.5	52.1	41.3
7647.8	70°	4150.5	457.6	52.1	44.7	39.9	36.6	42.0	49.4	44.0	33.2
6510.7	72.5°	3368.7	278.9	39.3	32.5	29.1	23.7	33.2	40.6	35.2	24.4
4527.5	75°	2179.5	142.1	27.1	21.0	15.6	14.2	24.4	30.5	24.4	14.9
2008.9	77.5°	833.9	59.6	14.9	9.5	8.1	6.8	13.5	18.3	10.2	3.4
389.2	80°	160.4	25.0	7.4	4.7	4.1	2.7	2.0	1.4	0.0	0.0
69.0	82.5°	27.8	8.1	2.7	1.4	0.0	0.0	0.0	0.0	0.0	0.0
13.5	85°	9.5	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.7	87.5°	3.4	0.0	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

180°
1256.9
762.8
446.7
363.5
335.7
310.0
285.6
263.3
241.6
220.7
199.7
182.8
168.5
157.7
147.6
139.4
128.6
119.8
113.7
107.6
103.6
100.2
96.1
91.4
83.3
67.7
47.4
39.9
31.8
23.0
12.9
2.7
0.0
0.0
0.0
0.0
0.0

F REPORT)