

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: P949022

Luminaire Tested: **GALN-SB3D-927-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949022  
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-SB3D-927-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

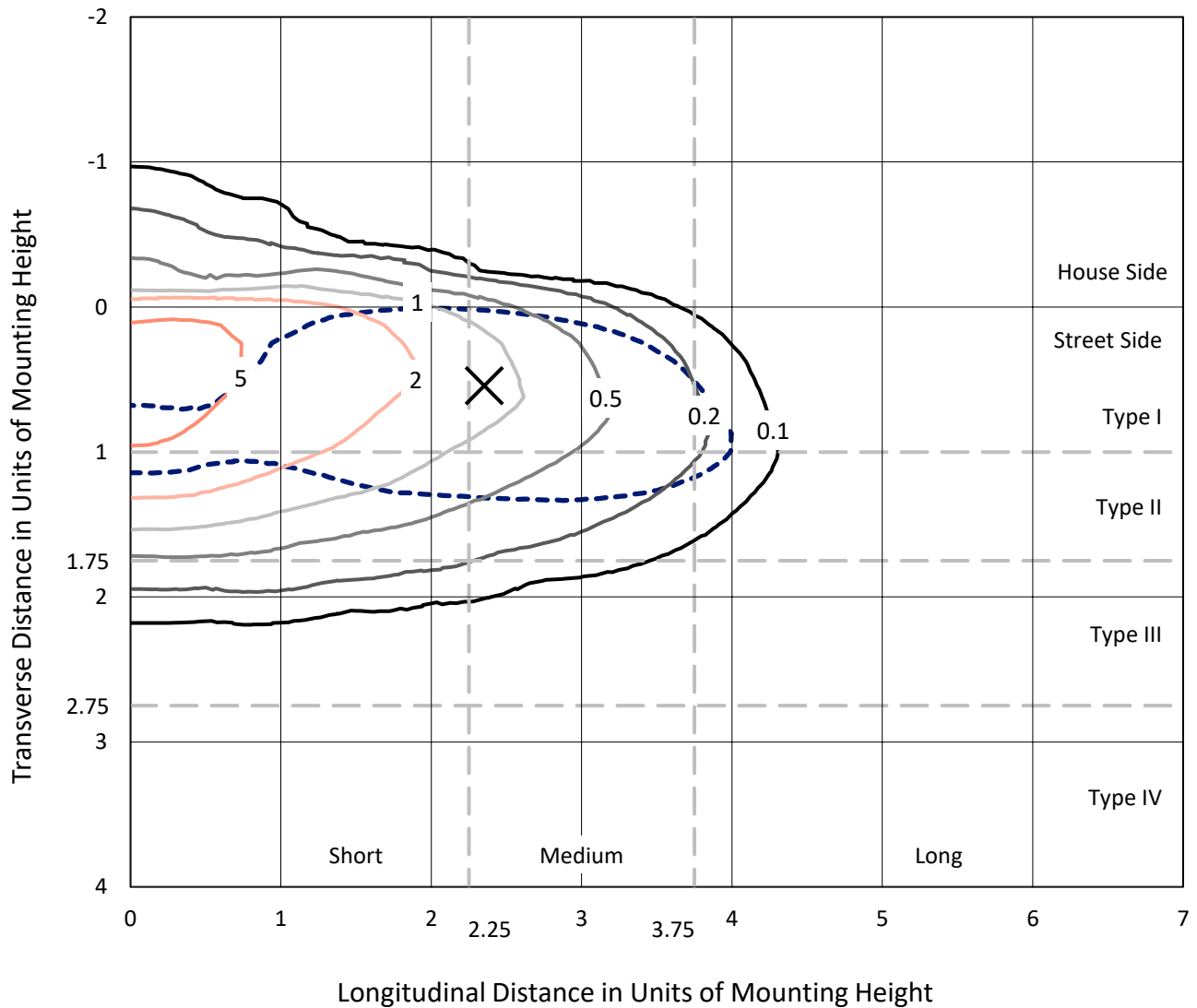
Lumens per Lamp: N/A  
Luminaire Lumens: 15735 lumens  
Efficiency: N/A  
Efficacy: 72.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 218.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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: P949022  
 CATALOG NUMBER: GALN-SB3D-927-U-T2R-HSS

### Iso-Footcandle Lines of Horizontal Illumination

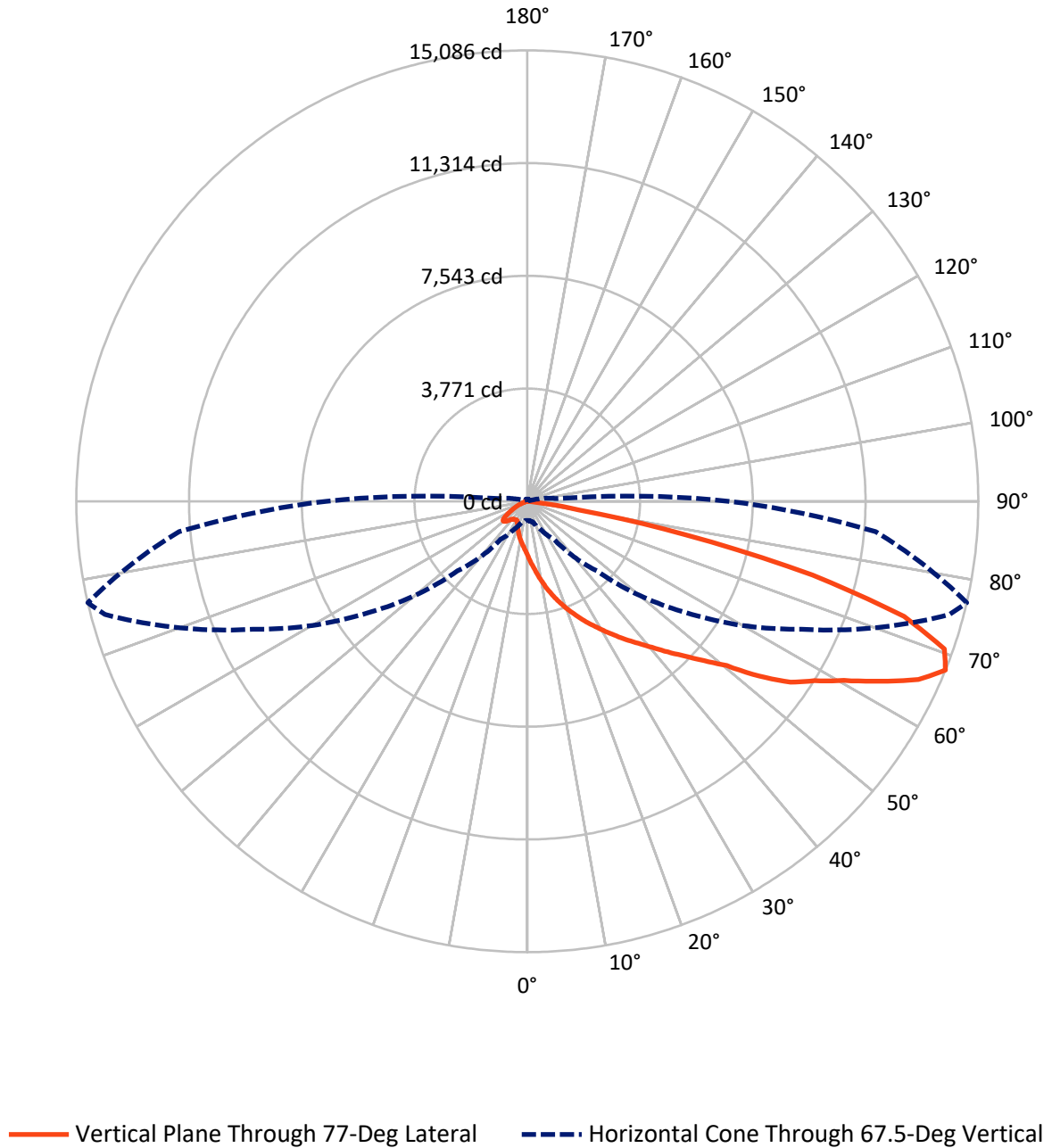
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc  
 Type II - Medium - N/A

REPORT NUMBER: P949022  
CATALOG NUMBER: GALN-SB3D-927-U-T2R-HSS

### Luminous Intensity Polar Plot



REPORT NUMBER: P949022  
 CATALOG NUMBER: GALN-SB3D-927-U-T2R-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1157.6	0.0	1157.6
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	14577.4	0.0	14577.4
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	15735.0	0.0	15735.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	185.2	1.2
10°-20°	648.5	4.1
20°-30°	1251.5	8.0
30°-40°	2172.7	13.8
40°-50°	3154.6	20.0
50°-60°	3622.7	23.0
60°-70°	3145.1	20.0
70°-80°	1481.4	9.4
80°-90°	73.3	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°	15735.0	100.0
0°-180°	15735.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P949022

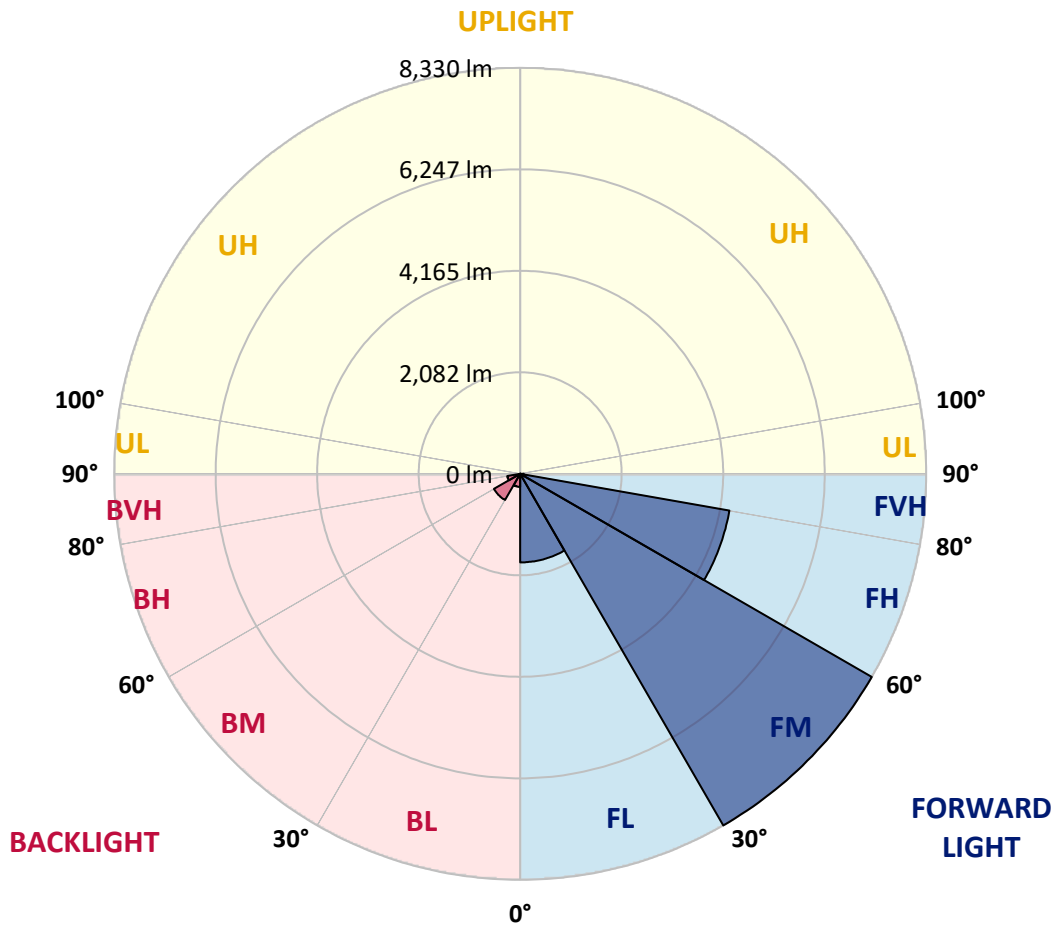
CATALOG NUMBER: GALN-SB3D-927-U-T2R-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1817.2	11.5			
FM (30°-60°)	8329.7	52.9			
FH (60°-80°)	4358.6	27.7			G2/5000
FVH (80°-90°)	71.9	0.5			G1/100
BL (0°-30°)	268.0	1.7	B1/500		
BM (30°-60°)	620.3	3.9	B1/1000		
BH (60°-80°)	268.0	1.7	B1/500		G1/500
BVH (80°-90°)	1.3	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: P949022

CATALOG NUMBER: GALN-SB3D-927-U-T2R-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1814.5	1814.5	1814.5	1814.5	1814.5	1814.5	1814.5	1814.5	1814.5	1814.5
2.5°	2512.1	2527.8	2505.3	2462.3	2397.8	2355.8	2253.2	2156.5	2049.0	2014.8
5°	3062.2	3075.9	3050.5	3003.6	2917.6	2835.5	2700.7	2498.4	2288.4	2221.0
7.5°	3469.7	3477.5	3467.7	3424.7	3342.7	3249.8	3099.4	2860.0	2548.3	2474.0
10°	3762.8	3788.2	3785.3	3768.7	3714.0	3638.7	3478.5	3205.9	2839.5	2743.7
12.5°	3957.3	3985.6	4002.2	4039.3	4036.4	3988.5	3847.8	3559.6	3129.7	3017.3
15°	4013.9	4044.2	4107.7	4193.7	4269.9	4294.4	4195.7	3906.5	3449.2	3305.5
17.5°	3981.7	4028.6	4104.8	4240.6	4407.7	4518.1	4507.4	4241.6	3739.4	3575.2
20°	4053.0	4098.0	4157.6	4271.9	4466.3	4666.6	4746.8	4562.1	4027.6	3855.6
22.5°	4447.8	4439.9	4445.8	4464.4	4580.7	4779.0	4944.1	4853.3	4312.9	4137.0
25°	5073.1	5037.9	4978.3	4877.7	4848.4	4944.1	5116.1	5111.2	4613.9	4425.3
27.5°	5790.3	5784.4	5644.7	5402.4	5265.6	5228.5	5310.5	5362.3	4911.9	4710.6
30°	6477.2	6492.8	6304.3	6034.6	5783.5	5637.9	5563.6	5600.7	5214.8	5018.4
32.5°	7075.2	7091.8	6886.6	6571.0	6260.3	6084.4	5928.1	5836.2	5545.0	5331.1
35°	7580.4	7597.0	7361.5	7012.7	6681.4	6522.2	6345.3	6094.2	5877.3	5677.9
37.5°	8031.8	8026.9	7711.3	7359.5	7034.2	6908.1	6815.3	6411.7	6219.2	6026.8
40°	8298.5	8319.0	8049.4	7661.4	7345.8	7254.0	7248.1	6805.5	6614.0	6427.4
42.5°	8376.7	8412.8	8217.4	7898.9	7612.6	7512.9	7666.3	7231.5	7073.2	6891.5
45°	8236.0	8271.2	8182.2	7961.4	7794.3	7729.8	8025.9	7673.2	7563.7	7384.0
47.5°	7825.6	7869.6	7891.1	7844.2	7842.2	7907.7	8348.4	8138.3	8146.1	7962.4
50°	7031.2	7105.5	7302.9	7469.0	7725.9	8048.4	8662.0	8642.5	8802.7	8644.4
52.5°	5587.1	5692.6	6372.7	6827.0	7404.5	8022.0	9006.9	9451.5	9954.7	9723.1
55°	4489.8	4489.8	5042.8	5892.9	6777.2	7848.1	9157.4	9977.2	10739.3	10684.6
57.5°	3660.2	3704.2	4056.9	4808.3	5869.4	7433.8	9250.2	10307.4	11371.5	11331.4
60°	2259.1	2353.8	3020.2	3761.8	4836.7	6696.1	9191.6	10641.6	12138.5	12170.8
62.5°	1272.2	1307.4	1604.4	2706.6	3760.9	5704.3	8743.1	10828.2	13119.5	13256.3
65°	878.4	896.0	1010.3	1684.5	2606.9	4541.6	7866.6	10712.0	14102.5	14379.0
67.5°	638.0	646.8	718.2	1028.9	1546.8	3292.8	6492.8	10125.7	14623.3	15085.5
70°	490.5	496.4	548.2	676.2	913.6	2032.4	4715.5	8960.0	14246.1	14798.2
72.5°	398.7	404.5	444.6	500.3	605.8	1201.8	2858.0	7276.5	12581.2	13177.2
75°	336.1	343.9	380.1	416.2	474.9	771.9	1340.6	5067.2	9461.3	9852.1
77.5°	186.6	172.0	308.8	344.9	400.6	488.6	627.3	2982.1	5298.8	5407.3
80°	116.3	120.2	245.3	277.5	307.8	246.2	287.3	1148.1	1837.0	1745.1
82.5°	6.8	15.6	188.6	200.3	211.1	105.5	108.5	389.9	442.6	406.5
85°	0.0	0.0	86.0	69.4	73.3	30.3	31.3	90.9	59.6	64.5
87.5°	0.0	0.0	0.0	2.0	0.0	2.9	5.9	7.8	2.9	3.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P949022  
 CATALOG NUMBER: GALN-SB3D-927-U-T2R-HSS

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1814.5	0°	1814.5	1814.5	1814.5	1814.5	1814.5	1814.5	1814.5	1814.5	1814.5	1814.5
1907.3	2.5°	1838.9	1770.5	1631.8	1495.9	1385.5	1282.9	1209.7	1140.3	1105.1	1103.1
2030.4	5°	1894.6	1751.0	1473.5	1228.2	1030.8	872.6	770.0	696.7	659.5	646.8
2181.9	7.5°	1972.8	1756.8	1334.7	993.7	761.2	625.3	566.7	543.3	535.5	526.7
2352.9	10°	2071.5	1770.5	1210.6	800.2	599.9	531.5	508.1	498.3	492.5	486.6
2545.3	12.5°	2181.9	1783.2	1087.5	664.4	527.6	492.5	475.8	464.1	456.3	449.5
2742.7	15°	2289.3	1791.0	959.5	569.6	490.5	462.2	444.6	431.9	421.1	413.3
2936.2	17.5°	2395.9	1801.8	839.3	513.0	460.2	431.9	414.3	398.7	389.9	381.1
3139.4	20°	2514.1	1799.8	726.0	472.9	429.9	401.6	383.0	368.4	359.6	349.8
3354.4	22.5°	2623.5	1790.0	626.3	438.7	398.7	371.3	350.8	336.1	327.3	319.5
3574.2	25°	2749.6	1782.2	543.3	407.5	369.3	342.0	319.5	305.8	296.1	289.2
3795.1	27.5°	2870.7	1770.5	482.7	379.1	341.0	314.6	293.1	277.5	268.7	263.8
4022.7	30°	2989.9	1767.6	460.2	351.8	315.6	289.2	267.7	253.1	246.2	244.3
4272.9	32.5°	3133.6	1775.4	470.0	342.0	292.2	265.8	245.3	234.5	227.7	227.7
4551.3	35°	3287.0	1773.4	484.6	350.8	276.5	242.3	226.7	219.8	213.0	213.0
4860.1	37.5°	3479.5	1776.4	496.4	365.4	270.7	222.8	214.0	205.2	201.3	201.3
5198.2	40°	3766.7	1873.1	490.5	378.1	268.7	209.1	191.5	188.6	185.6	185.6
5580.2	42.5°	4118.5	2083.2	498.3	379.1	267.7	199.3	175.9	181.7	174.9	173.9
6011.1	45°	4503.5	2312.8	548.2	358.6	266.7	194.4	168.1	174.9	164.2	164.2
6510.4	47.5°	4885.5	2540.5	599.0	329.3	263.8	193.5	161.2	157.3	154.4	155.4
7161.2	50°	5412.2	2726.1	618.5	289.2	257.0	191.5	148.5	149.5	147.5	149.5
8078.7	52.5°	5985.7	2765.2	595.1	244.3	237.4	185.6	139.7	143.6	142.7	144.6
8724.5	55°	6343.3	2723.2	491.5	203.2	207.1	162.2	130.9	138.7	138.7	138.7
9355.7	57.5°	6712.7	2544.4	348.8	165.1	172.0	132.9	123.1	133.9	132.9	131.9
10115.9	60°	6978.5	2255.1	229.6	135.8	136.8	109.4	114.3	126.0	125.1	120.2
10899.6	62.5°	7176.8	1935.6	147.5	115.3	104.5	98.7	104.5	114.3	110.4	99.7
11564.0	65°	7154.3	1493.0	113.3	98.7	86.0	86.0	90.9	99.7	87.9	70.4
11691.0	67.5°	6737.1	1010.3	93.8	83.1	72.3	71.3	75.2	83.1	75.2	59.6
11040.3	70°	5991.6	660.5	75.2	64.5	57.6	52.8	60.6	71.3	63.5	47.9
9398.7	72.5°	4863.0	402.6	56.7	46.9	42.0	34.2	47.9	58.6	50.8	35.2
6535.8	75°	3146.3	205.2	39.1	30.3	22.5	20.5	35.2	44.0	35.2	21.5
2900.0	77.5°	1203.8	86.0	21.5	13.7	11.7	9.8	19.5	26.4	14.7	4.9
561.8	80°	231.6	36.2	10.7	6.8	5.9	3.9	2.9	2.0	0.0	0.0
99.7	82.5°	40.1	11.7	3.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0
19.5	85°	13.7	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.8	87.5°	4.9	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

<u>180°</u>
1814.5
1101.2
644.9
524.7
484.6
447.5
412.3
380.1
348.8
318.5
288.2
263.8
243.3
227.7
213.0
201.3
185.6
172.9
164.2
155.4
149.5
144.6
138.7
131.9
120.2
97.7
68.4
57.6
45.9
33.2
18.6
3.9
0.0
0.0
0.0
0.0
0.0

F REPORT)