

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: P950725

Luminaire Tested: **GALN-SB5A-830-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950725
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5A-830-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15561 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

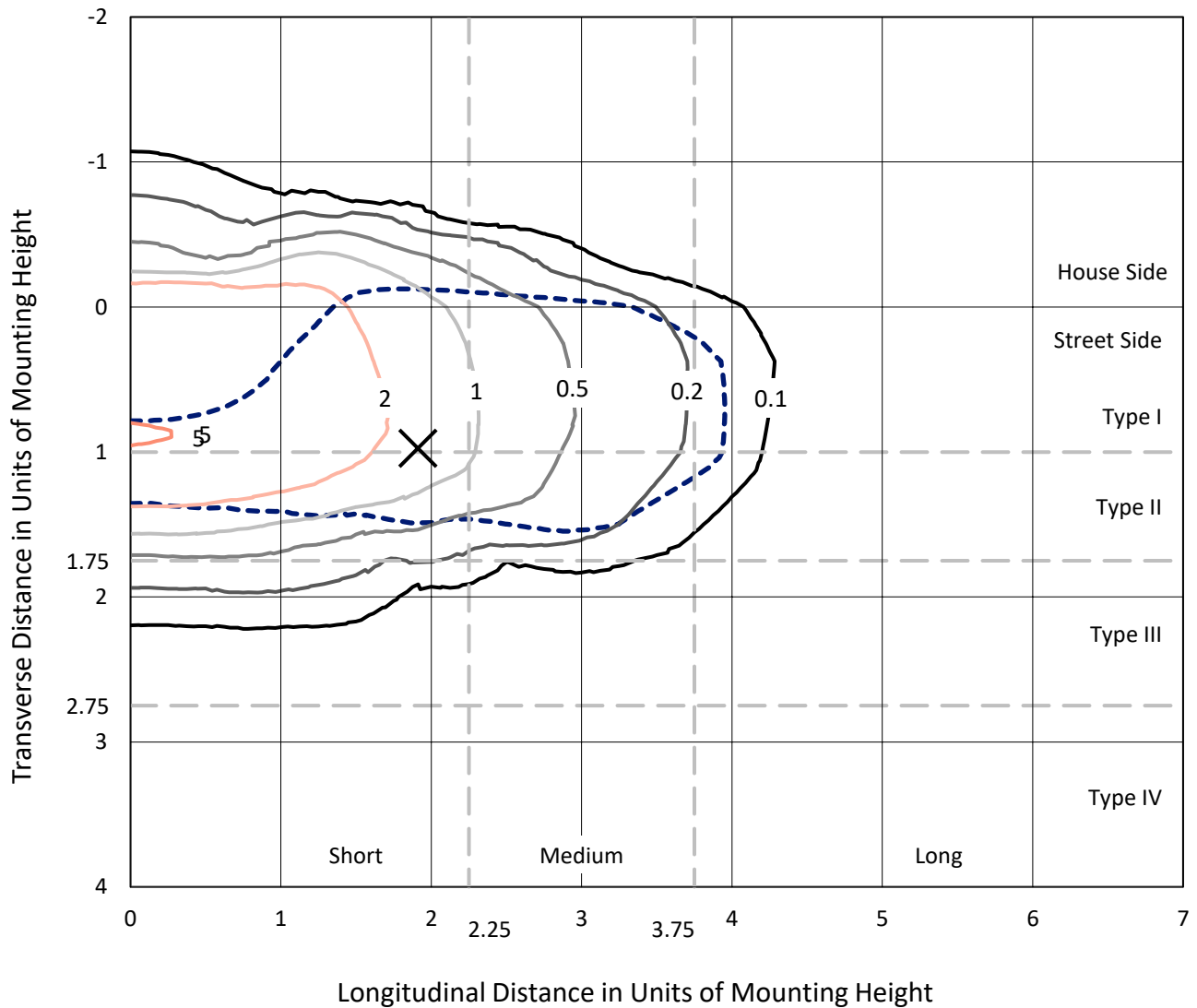
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P950725
 CATALOG NUMBER: GALN-SB5A-830-U-T2U-HSS

Iso-Footcandle Lines of Horizontal Illumination

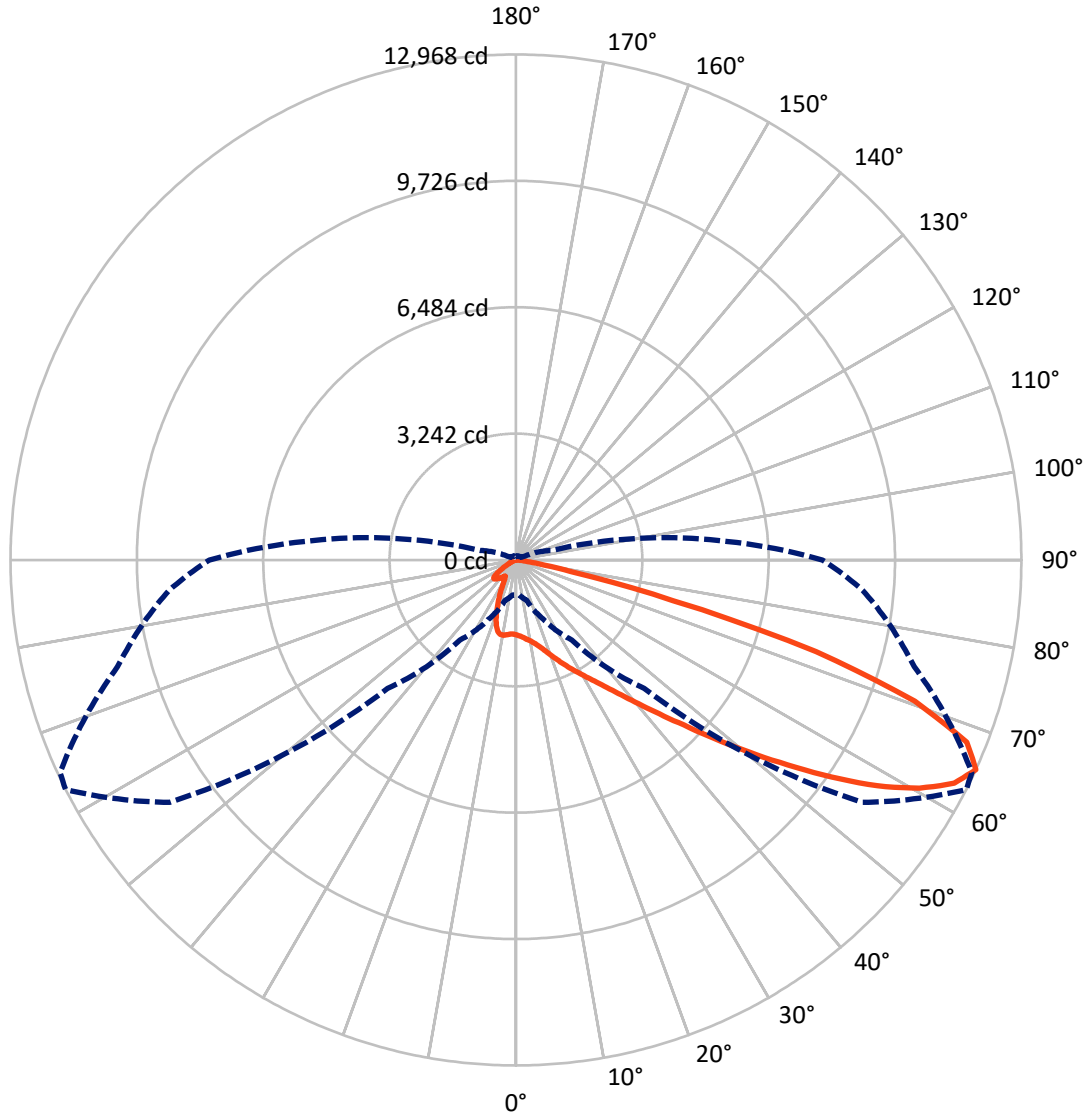
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type II - Short - N/A

REPORT NUMBER: P950725
CATALOG NUMBER: GALN-SB5A-830-U-T2U-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P950725
 CATALOG NUMBER: GALN-SB5A-830-U-T2U-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2287.3	0.0	2287.3
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	13273.6	0.0	13273.6
	% Fixture	85.3	0.0	85.3
Total	Lumens	15561.0	0.0	15561.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.9	1.2
10°-20°	502.1	3.2
20°-30°	874.2	5.6
30°-40°	1575.7	10.1
40°-50°	3125.1	20.1
50°-60°	4256.9	27.4
60°-70°	3397.9	21.8
70°-80°	1537.6	9.9
80°-90°	110.5	0.7
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°	15561.0	100.0
0°-180°	15561.0	100.0



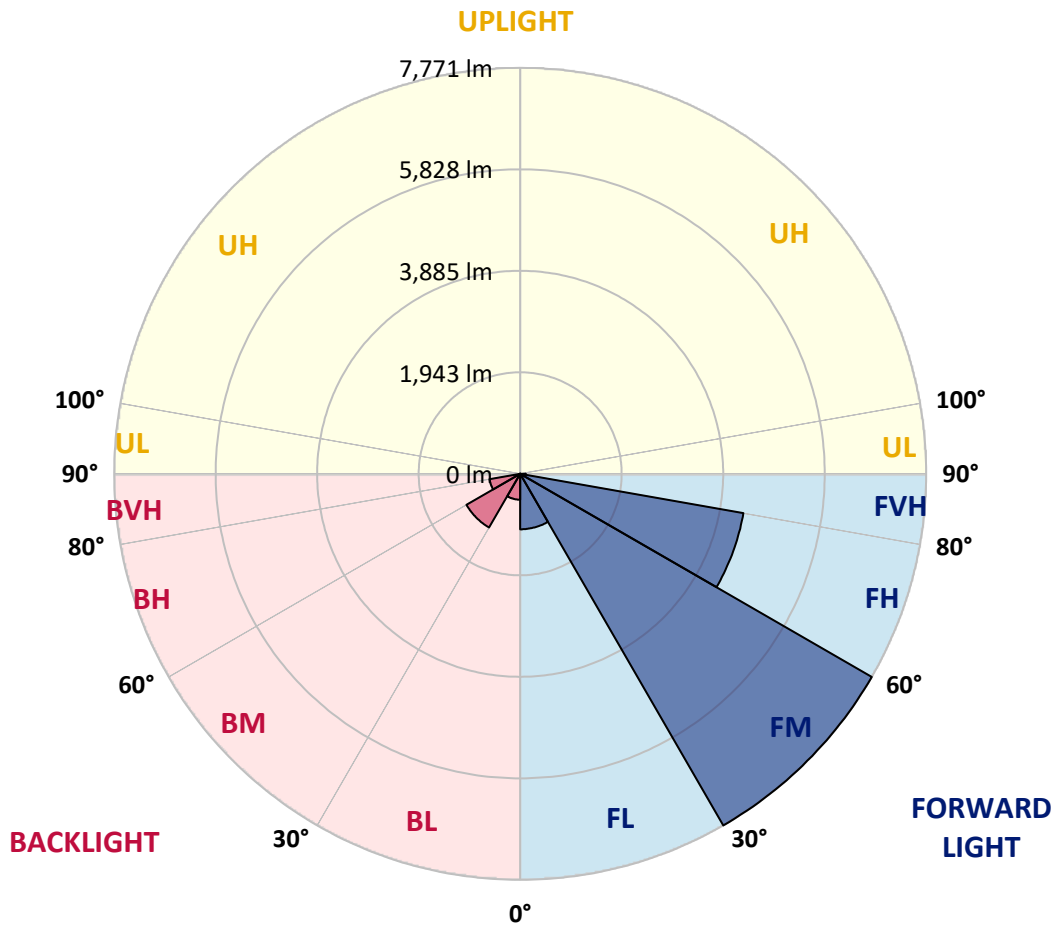
REPORT NUMBER: P950725
 CATALOG NUMBER: GALN-SB5A-830-U-T2U-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1062.2	6.8			
FM (30°-60°)	7770.8	49.9			
FH (60°-80°)	4338.3	27.9			G2/5000
FVH (80°-90°)	102.3	0.7			G2/225
BL (0°-30°)	495.0	3.2	B1/500		
BM (30°-60°)	1187.0	7.6	B2/2500		
BH (60°-80°)	597.1	3.8	B2/1000		G2/1000
BVH (80°-90°)	8.2	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



REPORT NUMBER: P950725
 CATALOG NUMBER: GALN-SB5A-830-U-T2U-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	1920.5	1920.5	1920.5	1920.5	1920.5	1920.5	1920.5	1920.5	1920.5	1920.5
2.5°	1965.5	1960.1	1967.6	1964.4	1962.3	1958.0	1955.8	1953.7	1949.4	1946.2
5°	1970.8	1967.6	1975.1	1981.5	1988.0	1994.4	1997.6	2001.9	1997.6	1989.0
7.5°	1925.9	1923.7	1939.8	1959.1	1988.0	2012.6	2039.3	2054.3	2055.4	2052.2
10°	1922.7	1917.3	1933.4	1956.9	1994.4	2038.3	2085.4	2117.5	2121.8	2135.7
12.5°	1973.0	1967.6	1990.1	2015.8	2054.3	2100.4	2158.2	2203.1	2209.6	2228.8
15°	2057.5	2050.1	2075.7	2108.9	2158.2	2210.6	2271.7	2312.3	2317.7	2341.2
17.5°	2156.0	2148.5	2178.5	2213.8	2267.4	2339.1	2409.8	2454.7	2461.1	2476.1
20°	2282.4	2272.7	2296.3	2328.4	2385.1	2470.8	2555.3	2619.6	2618.5	2618.5
22.5°	2429.0	2414.0	2434.4	2460.1	2513.6	2617.4	2729.8	2805.8	2805.8	2775.9
25°	2586.4	2571.4	2593.9	2617.4	2664.5	2782.3	2914.0	3008.2	3012.5	2961.1
27.5°	2783.4	2764.1	2781.2	2809.1	2836.9	2956.8	3113.1	3222.3	3224.4	3145.2
30°	3162.3	3107.7	3054.2	3024.2	3037.1	3155.9	3322.9	3443.9	3454.6	3345.4
32.5°	3856.0	3845.3	3656.9	3410.7	3282.2	3370.0	3557.4	3702.9	3709.4	3569.1
35°	4934.0	4921.2	4618.2	4149.4	3730.8	3656.9	3842.1	4014.5	4010.2	3851.7
37.5°	6220.8	6209.0	5809.7	5182.4	4504.8	4090.5	4209.3	4390.2	4417.0	4209.3
40°	7320.2	7276.4	7023.7	6418.9	5532.5	4809.9	4731.7	4851.6	4879.5	4633.2
42.5°	8153.1	8115.6	7987.2	7609.3	6776.4	5874.0	5347.3	5393.3	5424.3	5128.9
45°	8584.5	8576.0	8627.4	8592.0	8043.9	7180.0	6227.2	6035.6	6047.4	5678.1
47.5°	8645.6	8641.3	8875.7	9207.6	9133.7	8653.1	7356.6	6836.4	6794.6	6297.9
50°	8285.9	8277.3	8726.9	9348.9	9861.7	9890.6	8639.1	7738.8	7646.8	6939.1
52.5°	7137.2	7135.0	7873.7	8908.9	10117.5	10973.9	9906.6	8730.1	8576.0	7617.9
55°	5491.8	5531.4	6378.2	7601.8	9650.8	11495.3	11044.6	9830.6	9594.0	8300.8
57.5°	3890.3	3948.1	4785.2	5875.0	8203.4	11187.0	11814.3	10933.3	10678.5	8981.7
60°	2089.7	2141.0	2979.3	4280.0	6103.1	10037.2	12220.0	11890.3	11649.5	9628.3
62.5°	1245.0	1262.1	1609.0	2763.0	4127.9	7668.2	12047.7	12619.3	12421.3	10171.1
65°	893.9	897.1	1071.6	1687.1	2506.1	4658.9	10839.1	12968.3	12907.3	10580.0
67.5°	752.6	750.4	823.2	1120.8	1707.5	2333.7	8307.3	12474.8	12733.9	10839.1
70°	645.5	648.7	734.4	821.1	1283.6	1321.0	4130.1	10861.5	11413.9	10907.6
72.5°	480.7	491.4	570.6	748.3	968.8	908.9	1425.9	8053.6	9052.4	10277.0
75°	339.4	344.7	401.4	629.5	722.6	661.6	728.0	4163.3	5443.6	7879.1
77.5°	261.2	270.8	304.0	440.0	711.9	464.6	445.3	1440.9	2213.8	4759.6
80°	141.3	158.4	219.5	317.9	499.9	328.7	220.5	573.8	750.4	2225.6
82.5°	72.8	81.4	153.1	229.1	284.8	286.9	109.2	238.7	309.4	687.3
85°	28.9	35.3	102.8	126.3	146.7	141.3	49.2	96.3	111.3	190.6
87.5°	6.4	10.7	37.5	28.9	27.8	30.0	11.8	22.5	21.4	22.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P950725
 CATALOG NUMBER: GALN-SB5A-830-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1920.5	0°	1920.5	1920.5	1920.5	1920.5	1920.5	1920.5	1920.5	1920.5	1920.5	1920.5
1933.4	2.5°	1932.3	1928.0	1916.2	1903.4	1888.4	1879.8	1874.5	1873.4	1865.9	1860.6
1976.2	5°	1964.4	1960.1	1937.6	1910.9	1882.0	1859.5	1838.1	1818.8	1791.0	1785.6
2038.3	7.5°	2028.6	2016.9	1980.5	1944.1	1889.5	1824.2	1745.0	1654.0	1572.6	1548.0
2120.7	10°	2107.9	2091.8	2045.8	1981.5	1860.6	1682.9	1491.2	1313.5	1172.2	1132.6
2218.1	12.5°	2197.8	2183.9	2122.9	2004.0	1739.6	1417.4	1124.1	903.5	766.5	732.2
2322.0	15°	2304.8	2284.5	2199.9	1969.8	1523.4	1076.9	771.8	641.2	592.0	585.6
2440.8	17.5°	2418.3	2385.1	2268.4	1846.7	1232.2	765.4	596.3	558.8	537.4	531.0
2560.7	20°	2522.2	2479.3	2309.1	1660.4	920.7	596.3	534.2	509.6	490.3	482.8
2680.6	22.5°	2626.0	2565.0	2309.1	1406.7	690.5	528.8	490.3	467.8	445.3	435.7
2809.1	25°	2734.1	2652.8	2268.4	1124.1	555.6	484.9	448.5	423.9	404.7	392.9
2931.1	27.5°	2839.0	2726.6	2175.3	856.4	494.6	446.4	410.0	386.5	368.3	359.7
3063.8	30°	2938.6	2799.4	2044.7	649.8	455.0	408.9	374.7	354.3	336.1	327.6
3236.2	32.5°	3073.5	2891.5	1905.5	533.1	420.7	373.6	342.6	323.3	307.2	300.8
3459.9	35°	3260.8	3027.4	1785.6	523.5	391.8	344.7	313.7	295.5	279.4	274.1
3749.0	37.5°	3526.3	3246.9	1722.5	587.7	368.3	319.0	290.1	270.8	255.9	251.6
4116.2	40°	3853.9	3544.5	1756.7	651.9	352.2	296.5	268.7	249.4	236.6	231.2
4538.0	42.5°	4242.5	3911.7	1946.2	701.2	341.5	277.3	248.4	227.0	218.4	216.2
5016.5	45°	4688.9	4315.3	2236.3	753.6	324.4	259.1	228.0	212.0	205.5	204.5
5536.8	47.5°	5196.3	4758.5	2572.5	819.0	307.2	241.9	212.0	201.3	195.9	193.8
6079.5	50°	5699.5	5204.9	2918.3	855.3	293.3	225.9	199.1	190.6	186.3	185.2
6653.3	52.5°	6226.2	5664.1	3197.7	821.1	281.5	213.0	188.4	182.0	177.7	176.6
7182.2	55°	6728.2	6035.6	3245.8	696.9	258.0	200.2	176.6	173.4	168.1	168.1
7718.5	57.5°	7160.7	6221.9	2905.4	511.7	234.4	180.9	164.9	161.6	157.4	156.3
8202.4	60°	7557.9	6168.4	2242.7	344.7	208.8	161.6	149.9	147.7	143.5	138.1
8623.1	62.5°	7781.6	5932.8	1534.1	224.8	183.1	141.3	132.7	131.7	122.0	111.3
8934.6	65°	7866.2	5449.0	957.0	163.8	153.1	121.0	114.5	112.4	98.5	86.7
9111.2	67.5°	7792.3	4652.5	482.8	129.5	121.0	100.6	94.2	94.2	84.6	73.9
9100.5	70°	7496.9	3487.8	203.4	103.8	93.1	77.1	77.1	81.4	71.7	59.9
8628.4	72.5°	6855.6	2346.6	108.1	79.2	69.6	54.6	63.2	66.4	56.7	45.0
7062.3	75°	5450.0	1431.3	74.9	58.9	43.9	38.5	48.2	50.3	38.5	30.0
4842.0	77.5°	3727.6	822.2	50.3	37.5	27.8	22.5	33.2	31.0	20.3	13.9
1867.0	80°	1636.8	342.6	28.9	17.1	10.7	8.6	11.8	8.6	6.4	4.3
255.9	82.5°	191.6	80.3	10.7	6.4	4.3	2.1	1.1	0.0	0.0	0.0
78.1	85°	39.6	9.6	5.4	2.1	1.1	0.0	0.0	0.0	0.0	0.0
13.9	87.5°	7.5	2.1	1.1	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>
1920.5
1865.9
1783.5
1536.2
1117.6
722.6
579.2
527.8
478.5
430.4
388.6
359.7
328.7
300.8
274.1
250.5
230.2
216.2
203.4
193.8
185.2
176.6
167.0
155.2
137.0
109.2
85.6
72.8
58.9
45.0
28.9
15.0
4.3
0.0
0.0
0.0
0.0

F REPORT)