

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: P941204

Luminaire Tested: **GALN-SB4C-850-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941204
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4C-850-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20965 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

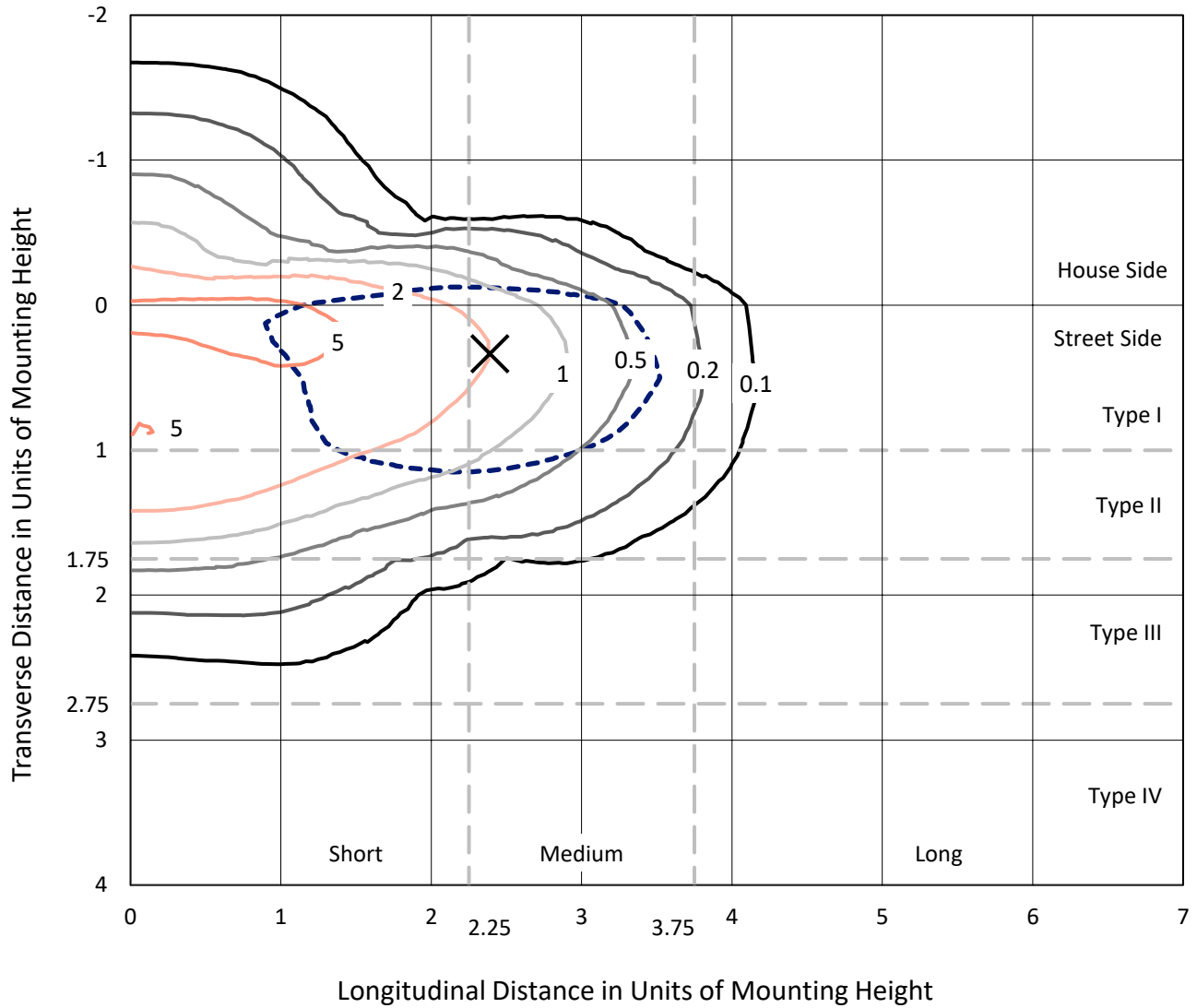
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P941204
 CATALOG NUMBER: GALN-SB4C-850-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

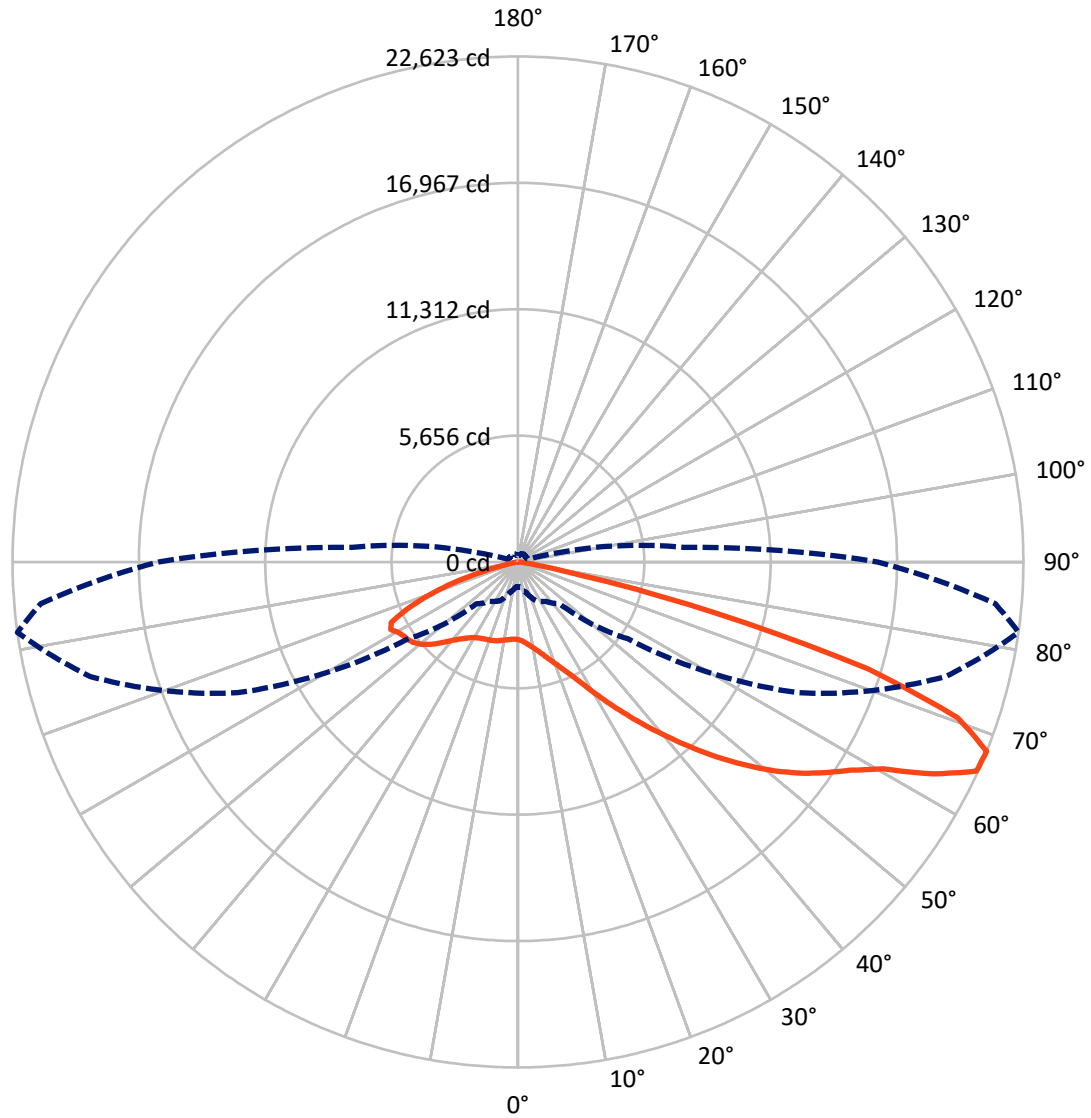
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type II - Medium - N/A

REPORT NUMBER: P941204
CATALOG NUMBER: GALN-SB4C-850-U-T2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P941204
 CATALOG NUMBER: GALN-SB4C-850-U-T2-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3797.6	0.0	3797.6
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	17167.4	0.0	17167.4
	% Fixture	81.9	0.0	81.9
Total	Lumens	20965.0	0.0	20965.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.4	1.5
10°-20°	804.1	3.8
20°-30°	1287.9	6.1
30°-40°	2277.4	10.9
40°-50°	3990.3	19.0
50°-60°	5321.9	25.4
60°-70°	4954.4	23.6
70°-80°	1901.5	9.1
80°-90°	118.1	0.6
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°	20965.0	100.0
0°-180°	20965.0	100.0

Coefficient of Utilization



REPORT NUMBER: P941204

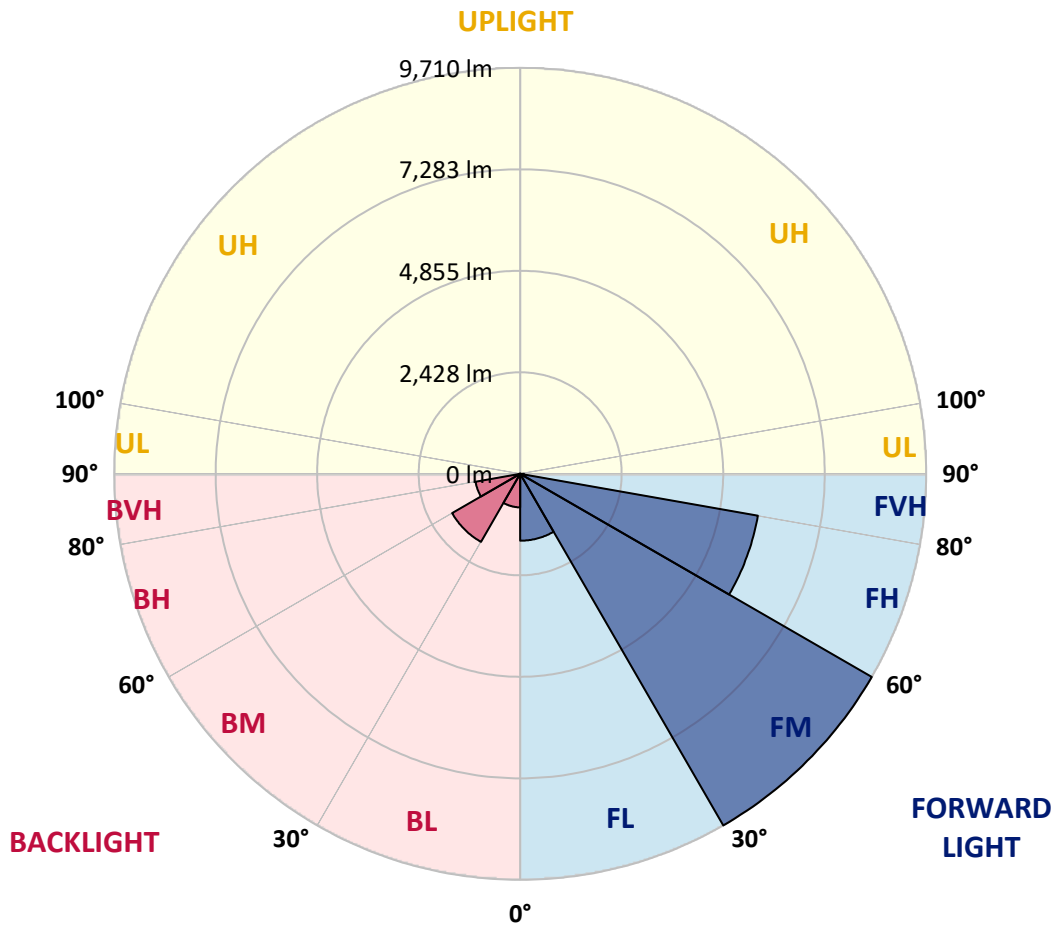
CATALOG NUMBER: GALN-SB4C-850-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1599.4	7.6			
FM (30°-60°)	9710.1	46.3			
FH (60°-80°)	5772.0	27.5			G3/7500
FVH (80°-90°)	85.9	0.4			G1/100
BL (0°-30°)	802.0	3.8	B2/1000		
BM (30°-60°)	1879.4	9.0	B2/2500		
BH (60°-80°)	1083.9	5.2	B3/2500		G3/2500
BVH (80°-90°)	32.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



REPORT NUMBER: P941204

CATALOG NUMBER: GALN-SB4C-850-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	3473.2	3473.2	3473.2	3473.2	3473.2	3473.2	3473.2	3473.2	3473.2	3473.2
2.5°	3670.9	3692.1	3680.0	3673.9	3663.4	3648.3	3636.2	3598.5	3559.2	3533.6
5°	3744.9	3766.0	3764.5	3770.5	3778.1	3782.6	3779.6	3737.3	3681.5	3637.7
7.5°	3681.5	3705.6	3725.3	3755.5	3808.3	3864.1	3891.3	3882.2	3824.9	3764.5
10°	3501.9	3527.5	3574.3	3645.3	3757.0	3877.7	3978.8	4025.6	3989.4	3923.0
12.5°	3172.8	3198.5	3290.6	3444.5	3631.7	3841.5	4034.7	4160.0	4169.0	4102.6
15°	2803.0	2828.7	2926.8	3120.0	3405.3	3741.9	4064.9	4301.9	4381.9	4324.5
17.5°	2573.6	2596.2	2670.2	2825.6	3123.0	3542.6	4054.3	4452.8	4635.4	4590.2
20°	2504.1	2523.8	2558.5	2667.2	2914.7	3335.8	3984.9	4594.7	4908.7	4883.0
22.5°	2578.1	2596.2	2606.8	2655.1	2810.6	3200.0	3897.3	4739.6	5225.6	5228.7
25°	2748.7	2766.8	2754.7	2784.9	2852.8	3157.7	3864.1	4910.2	5624.1	5657.3
27.5°	3029.4	3030.9	3002.2	3000.7	3011.3	3221.1	3898.8	5092.8	6126.8	6188.6
30°	3592.4	3569.8	3459.6	3340.4	3286.0	3411.3	3995.5	5308.7	6720.0	6830.2
32.5°	4460.4	4427.1	4224.9	3939.6	3652.8	3717.7	4169.0	5554.7	7366.0	7565.2
35°	5402.2	5393.2	5181.9	4757.7	4256.6	4153.9	4451.3	5877.7	8070.9	8387.9
37.5°	6277.7	6273.2	6152.4	5652.8	5043.0	4762.2	4904.1	6300.3	8825.6	9284.5
40°	7077.7	7091.3	6970.5	6523.7	5909.4	5542.6	5520.0	6822.6	9664.9	10261.1
42.5°	7769.0	7784.1	7661.9	7331.3	6765.3	6406.0	6276.2	7462.6	10484.5	11310.1
45°	8238.5	8332.0	8313.9	8049.8	7643.7	7270.9	7184.9	8265.6	11418.8	12422.6
47.5°	8371.3	8457.3	8593.2	8629.4	8381.8	8015.1	8117.7	9233.2	12363.7	13536.5
50°	8043.7	8123.7	8406.0	8781.8	8953.9	8840.7	9024.9	10270.1	13331.3	14647.5
52.5°	7397.7	7479.2	7835.4	8430.1	9132.0	9488.3	9935.0	11292.0	14268.6	15699.5
55°	6463.4	6549.4	7006.8	7680.0	8792.4	9755.4	10694.3	12312.4	15127.5	16646.0
57.5°	5192.4	5255.8	5731.3	6673.2	7938.1	9489.8	11254.3	13426.4	15936.5	17575.8
60°	3384.1	3440.0	3992.4	5043.0	6522.2	8602.2	11366.0	14668.6	17011.2	18784.8
62.5°	2250.6	2288.3	2615.8	3387.2	4593.2	6898.1	10712.4	15660.3	18587.1	20889.0
65°	1544.1	1581.9	1909.4	2446.8	2967.5	4563.0	8833.2	15529.0	20015.0	22559.9
67.5°	1101.9	1133.6	1411.3	1918.5	2147.9	2650.6	5987.9	13850.5	19809.7	22623.3
70°	789.4	807.5	1037.0	1494.3	1707.2	1592.4	3329.8	10593.2	17344.8	20890.5
72.5°	552.5	558.5	720.0	1138.1	1375.1	1162.3	1584.9	7062.6	13118.4	16396.9
75°	374.3	381.9	484.5	834.7	1103.4	887.5	839.2	3787.2	7701.1	9076.2
77.5°	229.4	232.5	312.5	570.6	825.7	676.2	540.4	1604.5	2979.6	2925.3
80°	129.8	129.8	199.2	354.7	563.0	436.2	378.9	682.3	943.4	828.7
82.5°	72.5	74.0	144.9	220.4	372.8	258.1	208.3	315.5	407.5	360.8
85°	30.2	33.2	89.1	104.2	178.1	128.3	84.5	132.8	150.9	134.3
87.5°	3.0	4.5	27.2	19.6	21.1	25.7	12.1	25.7	21.1	21.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P941204
 CATALOG NUMBER: GALN-SB4C-850-U-T2-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3473.2	0°	3473.2	3473.2	3473.2	3473.2	3473.2	3473.2	3473.2	3473.2	3473.2	3473.2
3524.5	2.5°	3495.8	3473.2	3415.8	3349.4	3261.9	3219.6	3162.2	3123.0	3089.8	3092.8
3612.1	5°	3563.8	3506.4	3378.1	3218.1	3018.9	2877.0	2726.0	2621.9	2537.3	2519.2
3732.8	7.5°	3657.3	3566.8	3341.9	3053.6	2717.0	2461.9	2234.0	2087.5	1983.4	1950.2
3879.2	10°	3778.1	3646.8	3295.1	2846.8	2362.3	2037.7	1793.2	1678.5	1607.5	1583.4
4051.3	12.5°	3918.5	3738.9	3233.2	2594.7	1997.0	1684.5	1529.0	1471.7	1449.0	1441.5
4262.6	15°	4095.1	3853.6	3139.6	2295.8	1687.5	1468.7	1402.3	1394.7	1397.7	1394.7
4516.2	17.5°	4304.9	3978.8	2987.2	1987.9	1479.2	1358.5	1334.3	1340.4	1347.9	1346.4
4800.0	20°	4534.3	4102.6	2792.4	1714.7	1337.4	1280.0	1266.4	1272.4	1278.5	1275.5
5127.5	22.5°	4795.4	4235.5	2576.6	1501.9	1242.3	1207.5	1192.4	1194.0	1194.0	1187.9
5542.6	25°	5107.9	4381.9	2350.2	1350.9	1169.8	1142.6	1124.5	1118.5	1109.4	1091.3
6046.8	27.5°	5480.7	4537.3	2132.8	1245.3	1112.4	1086.8	1065.7	1050.6	1027.9	997.7
6652.0	30°	5900.3	4726.0	1948.7	1178.9	1067.2	1041.5	1017.4	994.7	961.5	923.8
7347.9	32.5°	6393.9	4928.3	1814.3	1135.1	1026.4	999.2	970.6	943.4	907.2	869.4
8129.8	35°	6982.6	5172.8	1735.8	1104.9	994.7	958.5	926.8	896.6	869.4	836.2
8979.6	37.5°	7621.1	5432.4	1711.7	1089.8	973.6	917.7	881.5	860.4	857.4	837.7
9898.8	40°	8320.0	5740.4	1729.8	1080.7	950.9	878.5	839.2	834.7	842.3	807.5
10881.5	42.5°	9059.6	6105.6	1760.0	1070.2	919.2	839.2	801.5	801.5	795.5	747.2
11919.9	45°	9859.6	6526.8	1790.2	1044.5	881.5	800.0	771.3	760.8	735.1	688.3
12964.5	47.5°	10665.6	6955.4	1812.8	997.7	836.2	766.8	741.1	717.0	679.2	637.0
13989.4	50°	11430.9	7340.3	1788.7	928.3	784.9	735.1	707.9	674.7	634.0	605.3
14959.9	52.5°	12114.7	7673.9	1686.0	846.8	730.6	701.9	677.7	643.0	609.8	579.6
15835.4	55°	12709.4	7944.1	1504.9	769.8	682.3	673.2	649.1	605.3	560.0	534.3
16703.3	57.5°	13279.9	8149.4	1278.5	706.4	638.5	641.5	605.3	566.0	523.8	496.6
17873.1	60°	14039.2	8424.1	1049.1	647.5	591.7	600.8	561.5	532.8	480.0	445.3
19879.2	62.5°	15252.8	8851.3	833.2	575.1	537.4	540.4	523.8	489.1	425.7	384.9
21365.9	65°	16215.8	8694.3	656.6	496.6	475.5	480.0	480.0	442.3	374.3	327.5
21445.9	67.5°	16107.1	7444.5	523.8	419.6	416.6	419.6	430.2	398.5	332.1	294.3
19812.7	70°	14837.7	5921.5	419.6	348.7	362.3	354.7	384.9	363.8	298.9	261.1
15359.9	72.5°	12107.1	4265.6	320.0	288.3	277.7	289.8	347.2	327.5	249.1	206.8
8135.8	75°	7074.7	2276.2	238.5	227.9	200.8	241.5	307.9	279.2	190.2	152.5
2493.6	77.5°	2303.4	794.0	175.1	167.5	149.4	194.7	262.6	235.5	155.5	120.8
730.6	80°	617.4	240.0	119.2	110.2	96.6	144.9	208.3	187.2	111.7	78.5
314.0	82.5°	247.5	101.1	69.4	61.9	52.8	99.6	164.5	150.9	83.0	49.8
98.1	85°	80.0	33.2	25.7	19.6	24.2	61.9	98.1	102.6	58.9	25.7
15.1	87.5°	10.6	4.5	4.5	6.0	4.5	10.6	30.2	28.7	16.6	3.0
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°
3473.2
3062.6
2478.5
1917.0
1565.3
1437.0
1393.2
1343.4
1274.0
1184.9
1088.3
994.7
920.8
870.9
833.2
836.2
809.1
747.2
686.8
635.5
600.8
576.6
531.3
493.6
440.8
381.9
323.0
288.3
256.6
202.3
147.9
116.2
77.0
49.8
19.6
0.0
0.0

F REPORT)