

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: P950863

Luminaire Tested: **GALN-SB5A-940-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950863
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB5A-940-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16321 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

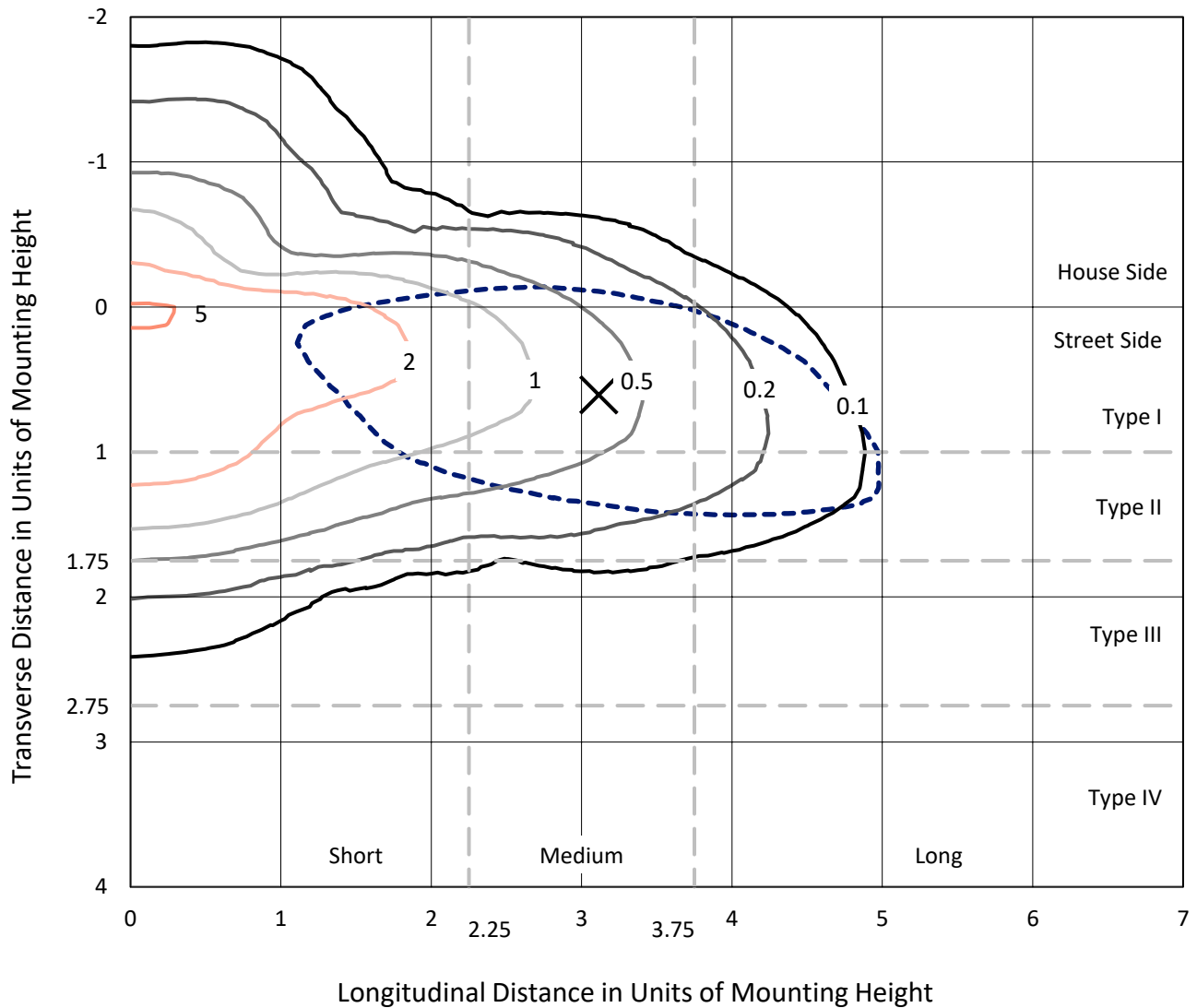
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P950863
 CATALOG NUMBER: GALN-SB5A-940-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

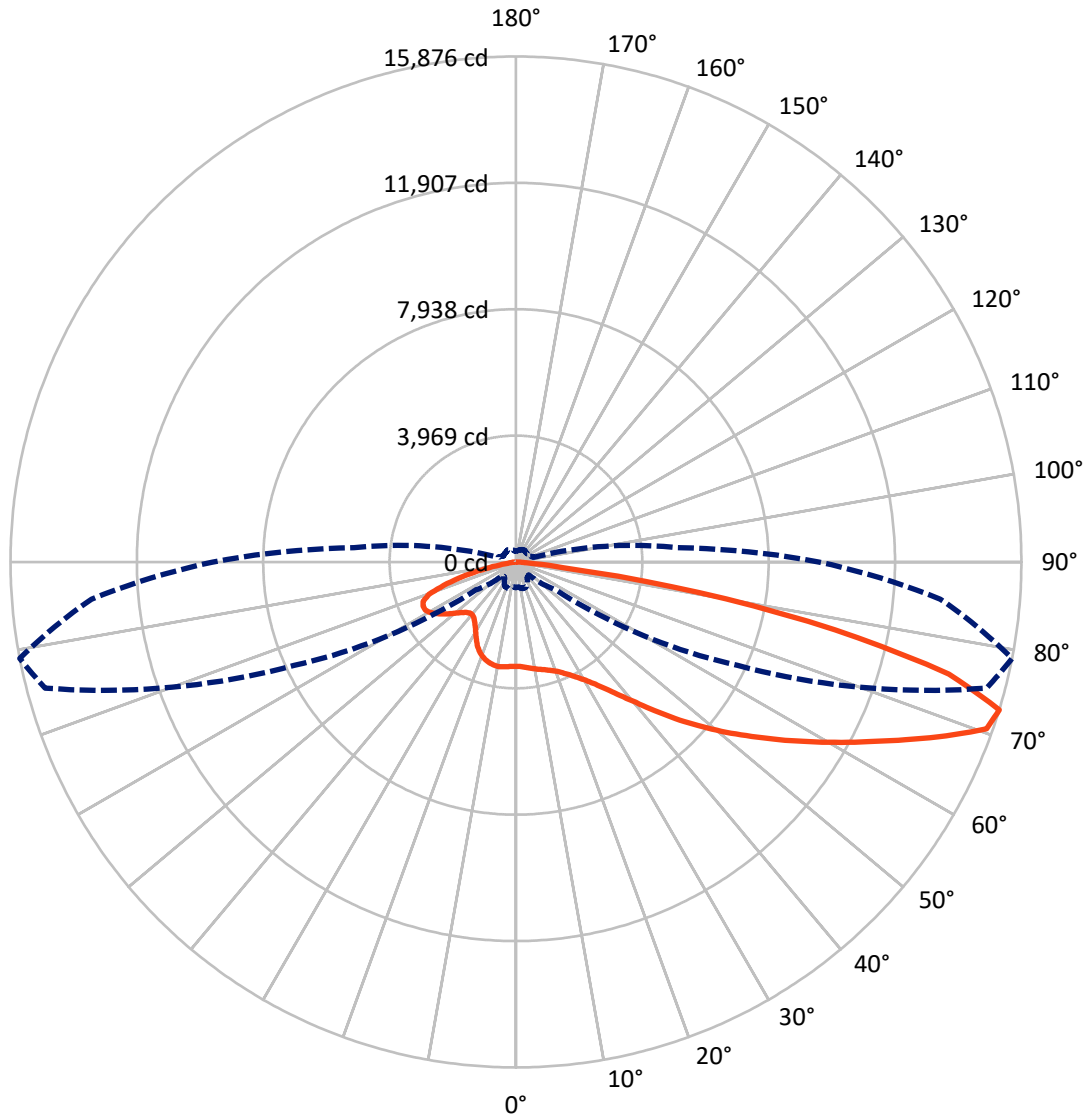
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P950863
CATALOG NUMBER: GALN-SB5A-940-U-SL2

Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P950863

CATALOG NUMBER: GALN-SB5A-940-U-SL2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3591.5	0.0	3591.5
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	12729.5	0.0	12729.5
	% Fixture	78.0	0.0	78.0
Total	Lumens	16321.0	0.0	16321.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.4	1.8
10°-20°	777.5	4.8
20°-30°	1254.6	7.7
30°-40°	1883.0	11.5
40°-50°	2671.1	16.4
50°-60°	3373.3	20.7
60°-70°	3426.0	21.0
70°-80°	2335.0	14.3
80°-90°	303.0	1.9
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°	16321.0	100.0
0°-180°	16321.0	100.0



REPORT NUMBER: P950863

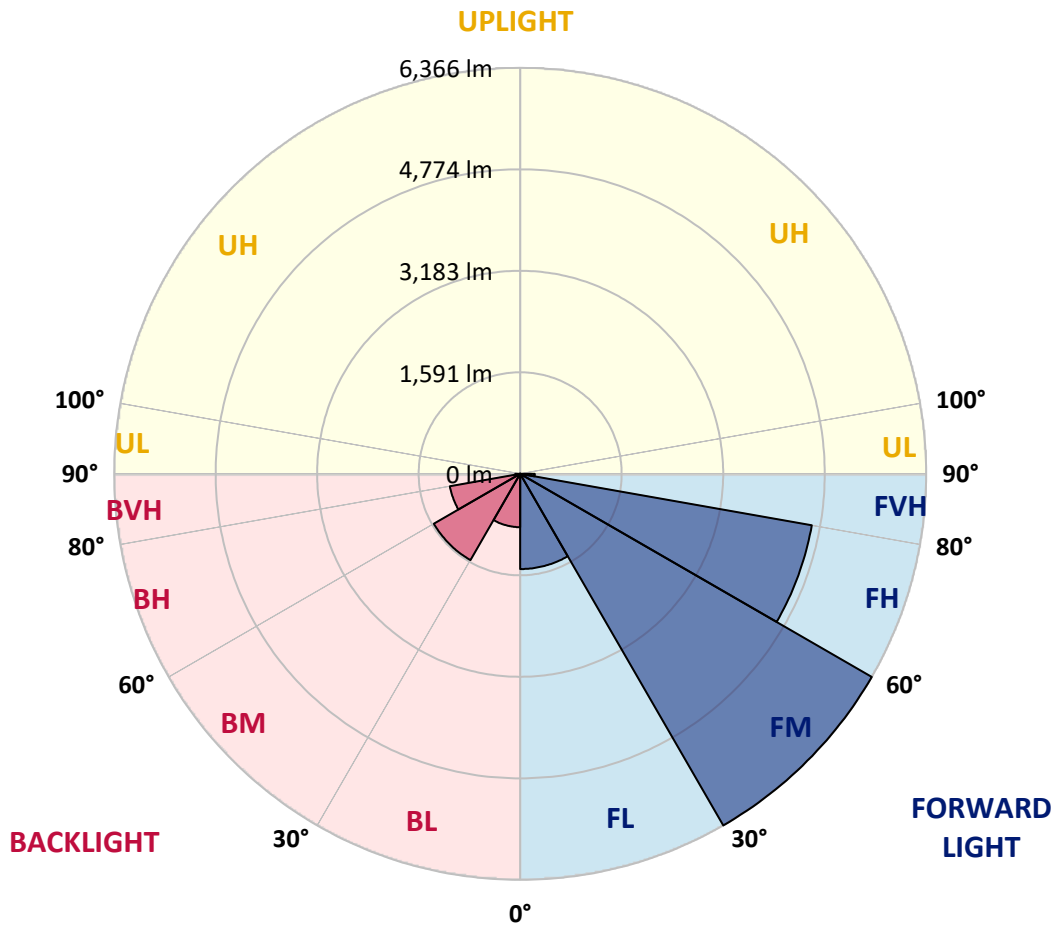
CATALOG NUMBER: GALN-SB5A-940-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1493.0	9.1			
FM (30°-60°)	6365.5	39.0			
FH (60°-80°)	4642.8	28.4			G2/5000
FVH (80°-90°)	228.2	1.4			G3/500
BL (0°-30°)	836.6	5.1	B2/1000		
BM (30°-60°)	1561.9	9.6	B2/2500		
BH (60°-80°)	1118.3	6.9	B3/2500		G3/2500
BVH (80°-90°)	74.7	0.5			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: P950863
 CATALOG NUMBER: GALN-SB5A-940-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	3276.3	3276.3	3276.3	3276.3	3276.3	3276.3	3276.3	3276.3	3276.3	3276.3
2.5°	3278.0	3262.5	3272.0	3268.5	3272.8	3278.0	3279.7	3282.3	3291.0	3290.1
5°	3271.1	3255.6	3268.5	3264.2	3275.4	3287.5	3297.9	3307.4	3321.2	3327.2
7.5°	3256.4	3246.1	3259.0	3272.0	3292.7	3310.8	3325.5	3347.1	3366.9	3370.4
10°	3171.0	3163.2	3193.4	3227.1	3284.1	3333.3	3365.2	3390.2	3411.8	3415.3
12.5°	3082.0	3072.5	3106.2	3152.0	3244.3	3333.3	3400.6	3433.4	3452.4	3463.6
15°	3067.4	3059.6	3078.6	3118.3	3195.1	3310.0	3424.8	3485.2	3501.6	3514.6
17.5°	3138.2	3123.5	3131.2	3145.1	3190.0	3288.4	3443.8	3543.9	3568.9	3582.8
20°	3302.2	3281.5	3269.4	3241.8	3234.0	3291.8	3442.0	3614.7	3647.5	3664.8
22.5°	3520.6	3506.8	3480.9	3411.0	3335.0	3334.1	3474.8	3705.4	3766.6	3783.1
25°	3784.8	3764.1	3731.3	3636.3	3490.4	3417.9	3530.1	3821.0	3923.8	3928.1
27.5°	4088.7	4057.6	4012.7	3887.5	3690.7	3549.1	3614.7	3954.0	4104.2	4102.5
30°	4409.0	4377.9	4330.4	4178.5	3930.7	3726.1	3732.1	4097.3	4318.3	4308.8
32.5°	4642.9	4619.6	4610.1	4492.7	4206.9	3935.0	3866.8	4256.1	4582.5	4573.9
35°	4822.5	4792.3	4803.5	4743.9	4508.2	4169.0	4031.7	4445.2	4903.6	4902.8
37.5°	5000.3	4973.6	4983.1	4943.3	4787.1	4465.9	4232.8	4676.6	5301.6	5320.6
40°	5162.6	5134.1	5172.1	5135.0	5003.8	4781.9	4461.6	4938.2	5762.6	5798.9
42.5°	5260.2	5237.7	5300.8	5301.6	5192.0	5048.7	4712.8	5226.5	6296.2	6377.3
45°	5293.9	5286.1	5381.1	5400.9	5358.6	5203.2	4939.0	5540.8	6871.1	7016.2
47.5°	5257.6	5242.9	5374.1	5447.5	5481.2	5275.7	5126.4	5880.9	7458.2	7670.6
50°	5074.6	5046.1	5241.2	5395.7	5515.7	5323.2	5315.4	6273.7	8125.5	8357.8
52.5°	4745.7	4724.1	4945.9	5214.4	5439.8	5346.5	5527.8	6702.8	8759.2	9059.6
55°	4325.2	4296.7	4541.0	4891.6	5250.7	5338.7	5740.2	7182.8	9506.8	9811.6
57.5°	3658.7	3601.8	3910.8	4325.2	4942.5	5329.3	5961.2	7660.2	10266.6	10631.7
60°	2686.6	2602.0	2981.0	3472.3	4339.9	5236.9	6234.9	8195.5	11178.2	11507.1
62.5°	1564.3	1515.1	1762.9	2221.3	3271.1	4693.0	6388.5	8817.9	12074.3	12419.7
65°	1214.7	1200.9	1222.5	1257.9	1820.7	3513.7	5914.6	9424.8	13213.9	13455.6
67.5°	1111.1	1100.7	1110.2	1043.7	923.7	1957.1	4679.2	9578.5	14434.6	14581.4
70°	987.6	975.5	1006.6	949.6	726.9	890.1	3023.3	9020.8	15405.9	15681.3
72.5°	804.6	790.8	863.3	837.4	612.1	571.5	1518.6	7695.6	15304.0	15875.5
75°	618.1	610.4	696.7	718.3	499.0	449.8	728.6	5720.3	13467.7	14043.6
77.5°	480.0	474.0	518.0	596.6	402.3	348.8	448.1	3628.5	10149.1	10250.2
80°	360.0	342.7	383.3	461.9	313.4	254.7	303.9	2116.0	6415.3	5815.3
82.5°	225.3	216.7	250.4	308.2	221.0	175.3	197.7	1168.9	2571.0	1514.3
85°	128.6	125.2	136.4	176.1	120.0	101.0	113.1	516.3	469.6	322.9
87.5°	51.8	50.1	62.2	78.6	44.0	37.1	39.7	124.3	103.6	95.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P950863
 CATALOG NUMBER: GALN-SB5A-940-U-SL2

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3276.3	0°	3276.3	3276.3	3276.3	3276.3	3276.3	3276.3	3276.3	3276.3	3276.3	3276.3
3289.2	2.5°	3285.8	3285.8	3273.7	3254.7	3233.1	3219.3	3196.9	3190.8	3167.5	3160.6
3318.6	5°	3325.5	3318.6	3281.5	3227.9	3154.6	3087.2	3013.0	2966.4	2900.7	2877.4
3376.4	7.5°	3375.6	3356.6	3292.7	3175.3	3021.6	2870.5	2713.4	2594.3	2480.3	2439.7
3423.9	10°	3421.3	3394.6	3285.8	3080.3	2814.4	2552.8	2302.5	2127.2	1994.3	1939.9
3476.6	12.5°	3467.1	3417.9	3240.0	2922.3	2520.0	2165.2	1898.4	1762.0	1680.0	1614.4
3519.7	15°	3510.2	3441.2	3169.2	2710.8	2197.1	1837.1	1640.3	1531.5	1465.9	1422.7
3582.8	17.5°	3560.3	3461.0	3063.0	2442.3	1889.8	1610.1	1449.5	1383.9	1370.9	1365.8
3669.1	20°	3630.2	3479.2	2923.2	2141.9	1663.6	1428.8	1345.9	1339.9	1339.0	1336.4
3772.7	22.5°	3705.4	3500.7	2738.4	1869.1	1471.1	1315.7	1301.0	1288.9	1281.2	1280.3
3897.9	25°	3794.3	3507.7	2507.1	1645.5	1307.1	1262.2	1244.9	1226.8	1221.6	1221.6
4040.3	27.5°	3880.6	3484.3	2237.7	1451.2	1214.7	1213.0	1190.5	1184.5	1183.6	1186.2
4202.6	30°	3966.9	3440.3	1970.1	1271.7	1161.2	1161.2	1153.4	1157.7	1161.2	1169.8
4425.4	32.5°	4083.5	3393.7	1746.5	1138.7	1114.5	1105.9	1113.7	1122.3	1125.8	1137.0
4718.0	35°	4254.4	3360.9	1568.6	1066.2	1066.2	1055.0	1059.3	1057.6	1049.8	1044.6
5072.0	37.5°	4480.6	3359.2	1421.9	1032.5	1025.6	1023.9	1024.8	1013.5	983.3	947.1
5500.2	40°	4752.6	3405.8	1308.8	1009.2	1004.0	1014.4	1009.2	979.0	896.1	833.1
6026.8	42.5°	5117.7	3538.7	1236.3	980.7	996.3	1009.2	988.5	884.0	827.9	785.6
6626.8	45°	5547.7	3754.6	1199.1	950.5	981.6	997.1	897.0	851.2	806.3	755.4
7281.2	47.5°	6034.6	4026.5	1190.5	922.0	948.8	958.3	858.1	837.4	786.5	731.2
7939.1	50°	6564.7	4348.5	1213.8	888.4	901.3	868.5	845.2	826.2	773.5	719.1
8613.3	52.5°	7112.9	4703.3	1260.4	842.6	853.8	817.6	840.0	823.6	765.8	692.4
9310.0	55°	7651.6	5060.8	1305.3	789.1	805.5	771.8	825.3	813.2	730.4	647.5
10053.3	57.5°	8198.9	5416.4	1349.4	741.6	758.9	727.8	802.0	785.6	690.7	606.0
10864.8	60°	8767.8	5761.8	1370.1	695.8	707.9	687.2	766.6	738.1	645.8	563.7
11662.5	62.5°	9300.5	6049.3	1336.4	650.1	657.8	649.2	720.0	682.0	600.9	516.3
12493.9	65°	9834.9	6220.2	1232.8	605.2	606.9	602.6	654.4	621.6	548.2	474.8
13221.7	67.5°	10319.2	6316.0	1067.9	556.8	552.5	550.8	593.1	556.0	497.3	433.4
13775.1	70°	10422.0	6072.6	815.8	499.9	499.9	495.5	525.8	487.8	441.2	389.4
13378.8	72.5°	9518.9	5108.2	579.3	435.1	442.0	433.4	458.4	426.5	384.2	349.6
11530.5	75°	7675.7	3745.9	421.3	368.6	380.7	366.0	389.4	366.9	330.7	329.8
7946.0	77.5°	5274.0	2316.3	305.6	303.9	312.5	293.5	320.3	308.2	275.4	260.7
3458.4	80°	2250.7	923.7	222.7	234.8	234.8	217.6	248.6	252.1	223.6	216.7
667.3	82.5°	448.1	262.4	156.3	161.4	151.9	146.8	176.1	195.1	269.4	299.6
201.2	85°	134.7	96.7	94.1	88.1	77.7	78.6	103.6	196.0	241.7	138.1
66.5	87.5°	37.1	24.2	25.0	19.9	16.4	21.6	35.4	148.5	81.2	34.5
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>
3276.3
3171.8
2894.7
2444.9
1952.0
1636.0
1430.5
1369.2
1345.0
1289.8
1226.8
1193.1
1175.8
1146.5
1056.7
947.9
831.4
783.9
751.9
726.9
713.1
687.2
643.2
604.3
561.2
515.4
469.6
428.2
387.6
339.3
297.0
244.3
216.7
300.4
119.1
29.4
0.0

F REPORT)