

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: P943729

Luminaire Tested: **GALN-SB8B-830-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943729
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB8B-830-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40439 lumens
Efficiency: N/A
Efficacy: 138.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

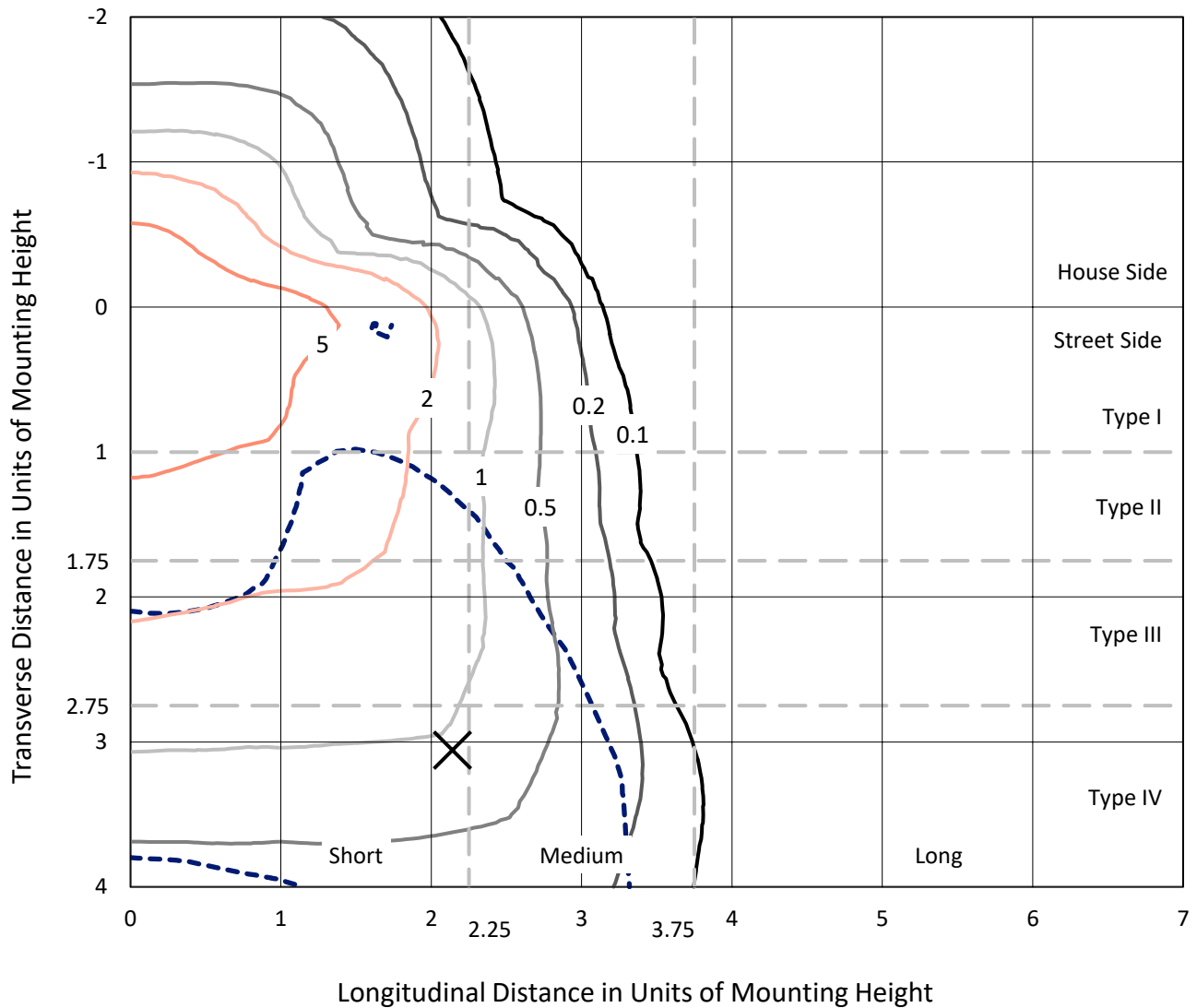
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P943729
 CATALOG NUMBER: GALN-SB8B-830-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

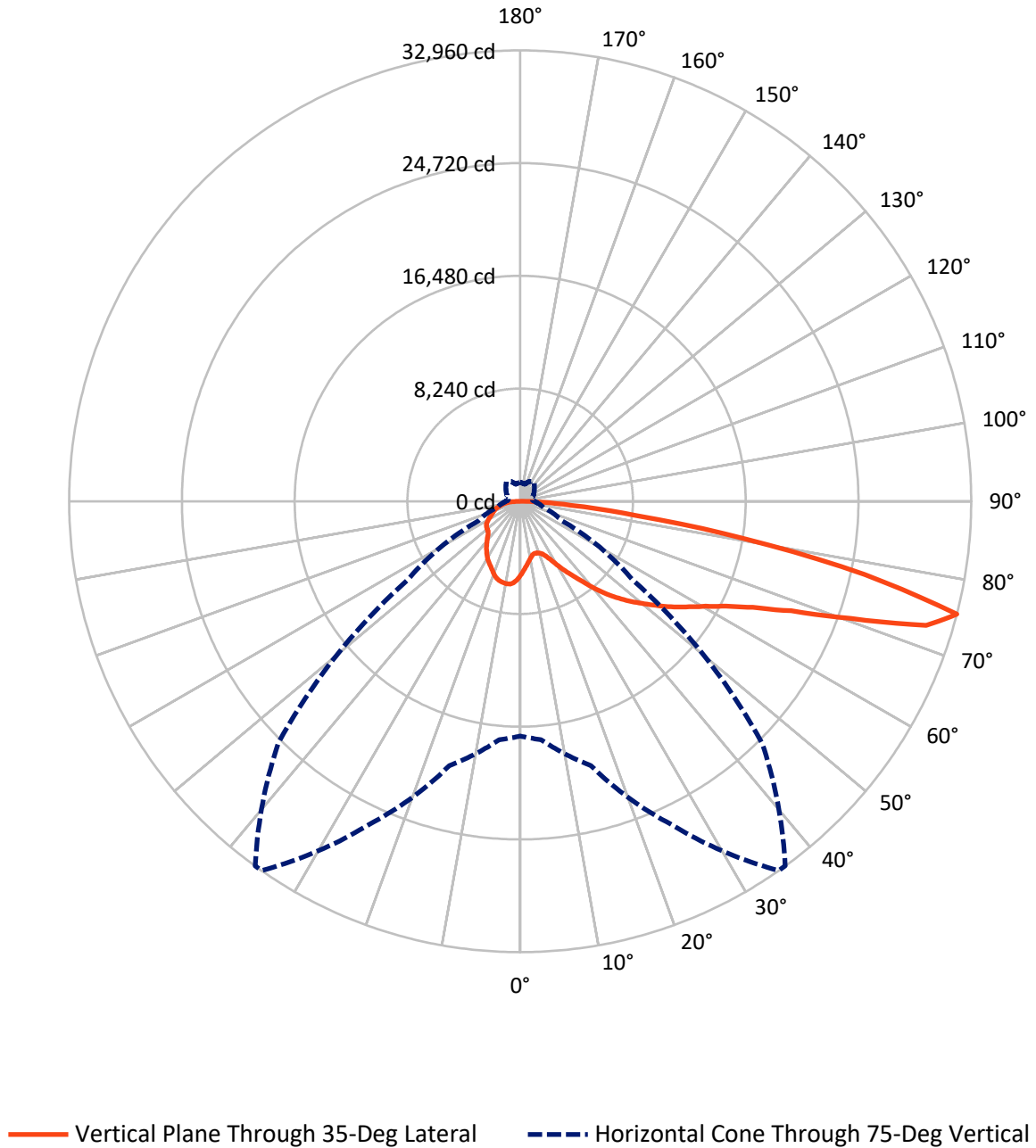
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type IV - Short - N/A

REPORT NUMBER: P943729
CATALOG NUMBER: GALN-SB8B-830-U-T4FT

Luminous Intensity Polar Plot



REPORT NUMBER: P943729

CATALOG NUMBER: GALN-SB8B-830-U-T4FT

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9623.5	0.0	9623.5
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	30815.5	0.0	30815.5
	% Fixture	76.2	0.0	76.2
Total	Lumens	40439.0	0.0	40439.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	510.2	1.3
10°-20°	1471.7	3.6
20°-30°	2471.3	6.1
30°-40°	3840.8	9.5
40°-50°	5700.7	14.1
50°-60°	7870.2	19.5
60°-70°	9548.3	23.6
70°-80°	7890.9	19.5
80°-90°	1135.0	2.8
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°	40439.0	100.0
0°-180°	40439.0	100.0

Coefficient of Utilization



REPORT NUMBER: P943729

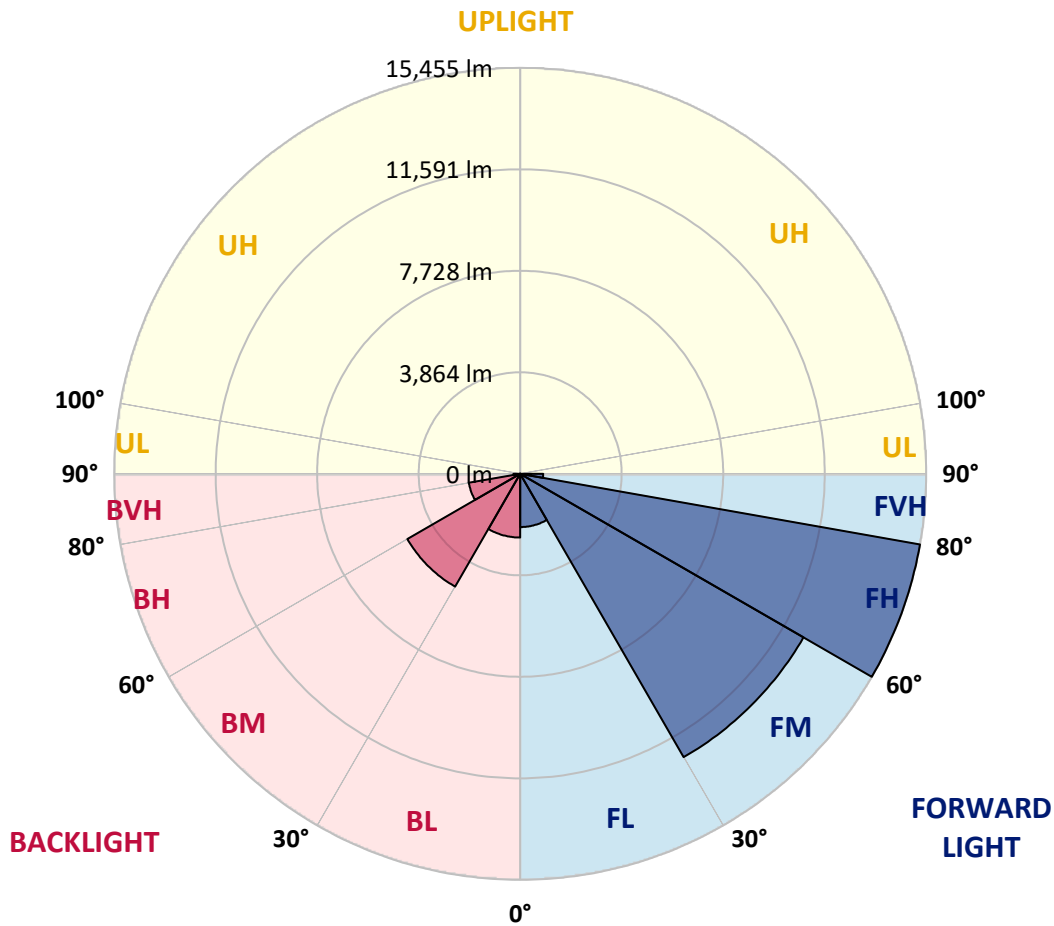
CATALOG NUMBER: GALN-SB8B-830-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2027.9	5.0			
FM (30°-60°)	12453.0	30.8			
FH (60°-80°)	15455.2	38.2			G5
FVH (80°-90°)	879.4	2.2			G5
BL (0°-30°)	2425.2	6.0	B3/2500		
BM (30°-60°)	4958.6	12.3	B3/5000		
BH (60°-80°)	1984.1	4.9	B3/2500		G3/2500
BVH (80°-90°)	255.6	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



REPORT NUMBER: P943729

CATALOG NUMBER: GALN-SB8B-830-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	5388.8	5388.8	5388.8	5388.8	5388.8	5388.8	5388.8	5388.8	5388.8	5388.8
2.5°	4969.0	4999.6	5012.8	5006.2	5039.0	5034.6	5080.5	5137.4	5216.1	5292.6
5°	4586.5	4619.3	4647.7	4673.9	4737.3	4757.0	4829.1	4938.4	5082.7	5229.2
7.5°	4230.1	4258.5	4302.3	4350.4	4457.5	4477.2	4597.4	4767.9	4969.0	5183.3
10°	3939.4	3967.8	4013.7	4068.4	4201.7	4225.8	4378.8	4606.1	4868.5	5139.6
12.5°	3814.8	3823.5	3849.7	3904.4	4020.3	4035.6	4203.9	4464.0	4770.1	5106.8
15°	3808.2	3825.7	3827.9	3856.3	3952.5	3959.1	4114.3	4372.2	4708.9	5100.2
17.5°	3873.8	3886.9	3867.2	3884.7	3965.6	3976.5	4099.0	4328.5	4689.2	5128.6
20°	4048.7	4059.6	4000.6	3976.5	4035.6	4044.3	4164.5	4356.9	4708.9	5187.6
22.5°	4420.3	4426.9	4282.6	4184.2	4188.6	4193.0	4297.9	4472.8	4785.4	5294.8
25°	4999.6	4995.3	4765.7	4575.5	4466.2	4442.2	4512.1	4660.8	4914.4	5436.9
27.5°	5677.3	5644.5	5415.0	5130.8	4892.5	4857.5	4842.2	4905.6	5098.0	5624.9
30°	6442.5	6411.9	6164.8	5793.2	5463.1	5406.3	5262.0	5229.2	5371.3	5880.6
32.5°	7281.9	7262.3	6967.1	6516.8	6075.2	6009.6	5767.0	5679.5	5791.0	6267.6
35°	7985.9	7968.4	7723.5	7260.1	6720.1	6639.2	6392.2	6293.8	6350.7	6763.8
37.5°	8622.0	8613.3	8403.4	8038.3	7480.9	7382.5	7104.9	7072.1	7061.1	7417.5
40°	9212.3	9190.4	8971.8	8779.4	8366.3	8276.6	8031.8	8003.4	7920.3	8222.0
42.5°	9865.9	9809.1	9492.1	9402.5	9291.0	9216.7	9070.2	9074.6	8890.9	9129.2
45°	10399.3	10366.6	10040.8	9988.4	10108.6	10078.0	10204.8	10237.6	9881.2	10080.2
47.5°	10972.1	10941.5	10666.0	10628.9	10954.6	10963.4	11411.5	11422.4	10847.5	11068.3
50°	11678.2	11634.5	11361.2	11407.1	11772.2	11805.0	12624.8	12550.5	11737.2	12071.7
52.5°	12143.9	12170.1	12111.1	12185.4	12683.8	12714.4	13818.4	13628.2	12618.2	13062.0
55°	12487.1	12539.5	12723.2	12893.7	13645.7	13676.3	14944.3	14653.5	13348.4	13980.2
57.5°	12928.7	12854.3	13197.6	13529.9	14559.5	14640.4	16039.5	15641.6	13995.5	14771.6
60°	13562.6	13510.2	13776.9	14268.8	15582.6	15711.6	17198.2	16531.4	14469.9	15399.0
62.5°	14848.1	14716.9	14758.5	15193.5	16872.4	17042.9	18505.5	17307.5	14706.0	15643.8
65°	16769.7	16544.5	16334.6	16636.3	18689.1	18857.4	19981.1	17917.4	14618.5	15169.4
67.5°	19189.7	18966.7	18708.8	18993.0	21364.9	21498.2	21802.1	18260.6	13929.9	13341.9
70°	21185.6	21102.6	21410.8	22580.4	25638.7	25643.1	24136.9	17976.4	12043.3	9459.3
72.5°	20921.1	20870.8	22495.1	26110.9	31025.3	30909.5	26347.0	15825.3	8112.7	4267.3
75°	17163.2	17488.9	20005.1	26047.5	32960.0	32944.7	24993.8	10060.5	3355.7	1768.6
77.5°	9203.5	9719.5	12987.7	19231.2	25730.6	26117.5	17572.0	3519.6	1440.6	1132.4
80°	3001.5	3451.9	5176.7	9791.6	16719.4	16647.3	7531.2	1381.6	985.9	802.3
82.5°	1274.5	1327.0	2312.9	4623.6	8580.5	8447.1	2398.2	793.6	693.0	548.7
85°	498.4	557.5	1020.9	2138.0	3716.4	3635.5	865.7	393.5	443.8	358.5
87.5°	164.0	198.9	365.1	732.3	1156.5	1114.9	212.1	135.5	192.4	164.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P943729
 CATALOG NUMBER: GALN-SB8B-830-U-T4FT

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
5388.8	0°	5388.8	5388.8	5388.8	5388.8	5388.8	5388.8	5388.8	5388.8	5388.8	5388.8
5404.1	2.5°	5434.7	5469.7	5511.2	5572.4	5624.9	5668.6	5714.5	5742.9	5753.9	5786.6
5412.8	5°	5474.0	5550.5	5653.3	5753.9	5852.2	5911.3	5963.7	5990.0	6014.0	6031.5
5436.9	7.5°	5539.6	5638.0	5799.8	5930.9	6014.0	6062.1	6097.1	6088.3	6097.1	6101.4
5463.1	10°	5596.5	5734.2	5926.6	6051.2	6114.6	6116.7	6108.0	6077.4	6062.1	6064.3
5502.4	12.5°	5664.2	5817.2	6024.9	6129.9	6147.4	6099.3	6062.1	6009.6	5990.0	5981.2
5561.5	15°	5756.0	5930.9	6132.0	6171.4	6127.7	6066.5	6003.1	5917.8	5874.1	5839.1
5662.0	17.5°	5867.5	6059.9	6215.1	6186.7	6092.7	5992.1	5889.4	5760.4	5670.8	5633.6
5799.8	20°	6022.7	6195.4	6278.5	6153.9	6011.8	5858.8	5683.9	5526.5	5443.4	5406.3
5974.6	22.5°	6210.7	6376.9	6339.7	6097.1	5895.9	5651.1	5432.5	5316.6	5275.1	5248.9
6199.8	25°	6435.9	6578.0	6383.5	6014.0	5705.8	5375.7	5207.3	5170.2	5150.5	5130.8
6475.3	27.5°	6728.9	6805.4	6416.2	5891.6	5408.4	5082.7	5021.5	5028.1	5021.5	4988.7
6857.8	30°	7115.8	7100.5	6446.8	5692.6	5067.4	4818.2	4822.6	4851.0	4855.4	4833.5
7391.3	32.5°	7625.2	7470.0	6462.2	5434.7	4741.7	4586.5	4590.8	4621.4	4643.3	4606.1
8088.6	35°	8241.6	7900.6	6438.1	5111.1	4490.3	4365.7	4332.9	4341.6	4348.2	4313.2
8934.6	37.5°	8960.9	8383.7	6331.0	4752.6	4282.6	4149.2	4079.3	4020.3	3985.3	3952.5
9892.2	40°	9750.1	8910.6	6134.2	4402.8	4050.9	3919.7	3814.8	3703.3	3585.2	3541.5
10906.5	42.5°	10576.4	9452.8	5895.9	4068.4	3784.2	3677.0	3565.6	3403.8	3226.7	3137.1
11960.2	45°	11433.4	10008.0	5662.0	3738.3	3510.9	3465.0	3336.0	3141.4	2949.1	2835.4
13016.1	47.5°	12272.8	10532.7	5318.8	3406.0	3255.1	3305.4	3204.8	3025.6	2811.3	2632.1
14063.3	50°	13075.1	11024.6	4757.0	3069.3	3047.4	3257.3	3161.1	2903.2	2658.3	2428.8
15090.7	52.5°	13870.9	11422.4	4037.8	2763.2	2936.0	3244.2	3104.3	2820.1	2520.6	2280.1
16057.0	55°	14546.4	11627.9	3344.8	2500.9	2774.2	3132.7	3036.5	2721.7	2326.0	2070.2
16719.4	57.5°	14931.2	11461.8	2767.6	2243.0	2551.2	2949.1	2920.6	2511.8	2094.3	1897.5
16848.4	60°	14765.0	10788.5	2295.4	2017.8	2339.1	2750.1	2719.5	2304.2	1917.2	1731.4
16157.6	62.5°	13849.0	9505.2	1921.6	1821.0	2146.8	2546.8	2518.4	2144.6	1781.7	1602.4
14323.4	65°	12004.0	7732.3	1630.8	1657.1	1952.2	2302.0	2343.5	2011.2	1674.6	1499.7
11081.4	67.5°	9155.4	5600.8	1403.5	1515.0	1762.0	2061.5	2181.7	1915.0	1584.9	1418.8
6411.9	70°	5218.3	3180.8	1211.1	1377.3	1593.7	1838.5	2057.1	1838.5	1488.7	1351.0
2402.5	72.5°	1978.4	1460.3	1047.1	1239.5	1431.9	1650.5	1919.4	1718.3	1377.3	1274.5
1241.7	75°	1055.9	889.7	881.0	1077.8	1246.1	1466.9	1746.7	1600.2	1294.2	1346.6
859.1	77.5°	719.2	629.6	736.7	922.5	1042.8	1263.6	1563.1	1421.0	1121.5	1117.1
594.6	80°	498.4	446.0	599.0	743.3	806.7	1062.5	1364.1	1219.9	913.8	852.6
367.3	82.5°	299.5	290.8	448.2	555.3	570.6	819.8	1130.2	1023.1	747.7	651.5
218.6	85°	164.0	172.7	286.4	325.7	332.3	572.8	885.4	791.4	574.9	483.1
78.7	87.5°	45.9	59.0	104.9	129.0	159.6	297.3	526.9	470.0	288.6	201.1
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>
5388.8
5784.5
6035.9
6108.0
6068.7
5976.8
5850.0
5635.8
5401.9
5253.2
5130.8
4995.3
4844.4
4623.6
4337.2
3974.4
3561.2
3148.0
2826.6
2612.4
2409.1
2253.9
2048.4
1871.3
1705.2
1574.0
1471.3
1392.6
1333.5
1257.0
1390.4
1029.7
815.4
655.8
487.5
201.1
0.0

F REPORT)