

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: P944512

Luminaire Tested: **GALN-SB9C-730-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944512
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9C-730-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 67618 lumens
Efficiency: N/A
Efficacy: 150.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B5 - U0 - G5

Input Watts (W): 449.8
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

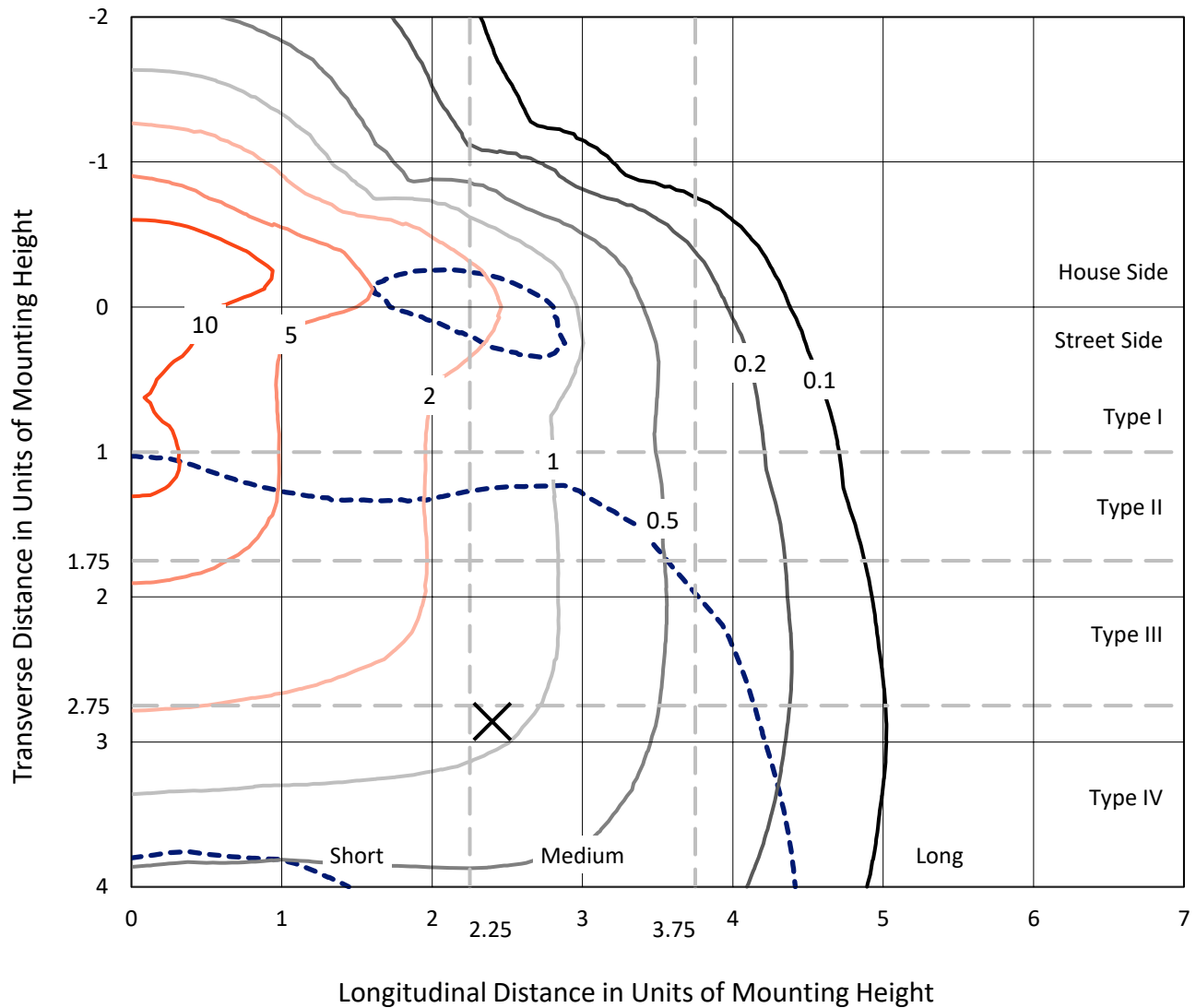


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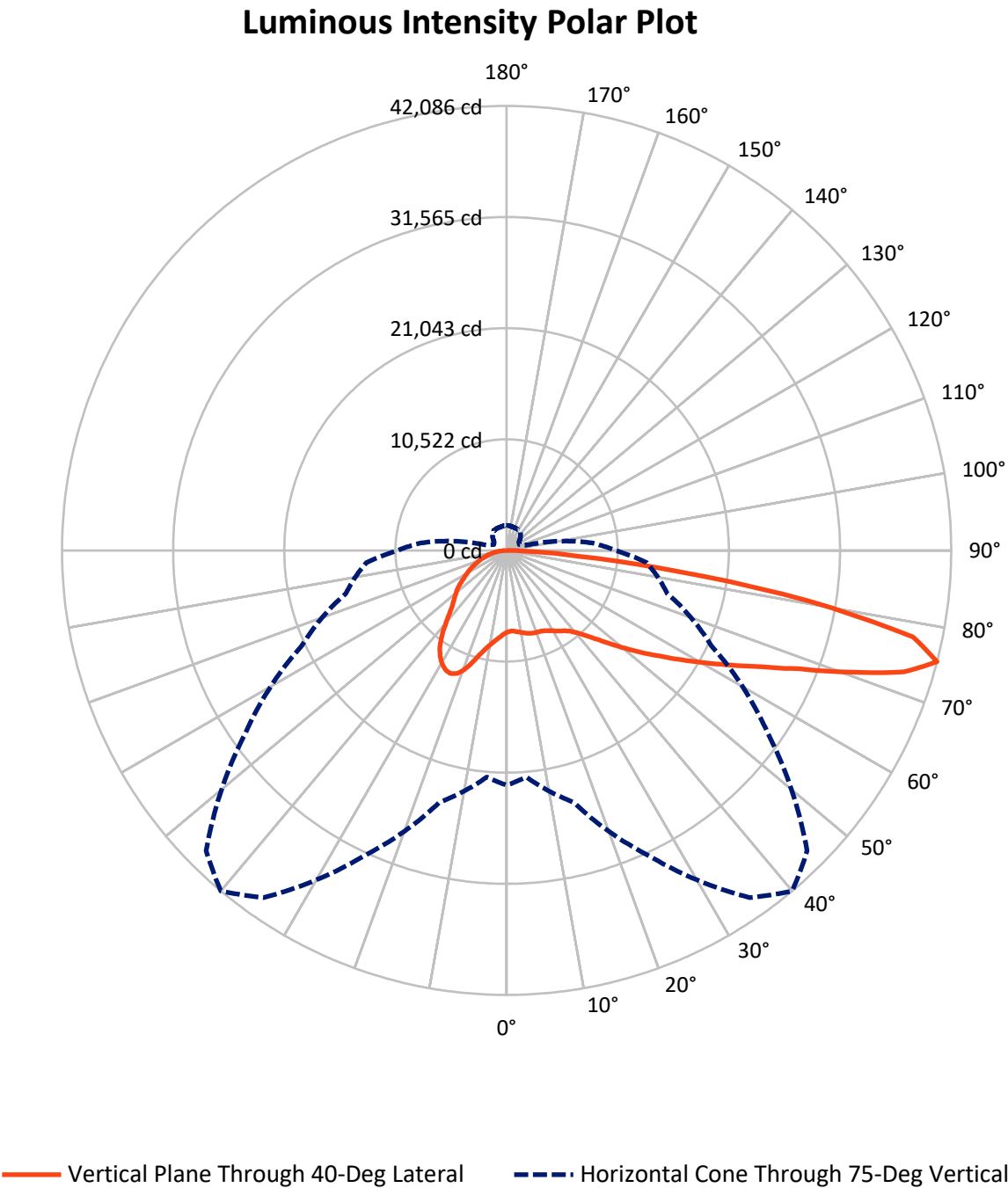
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16 fc
Type IV - Medium - N/A

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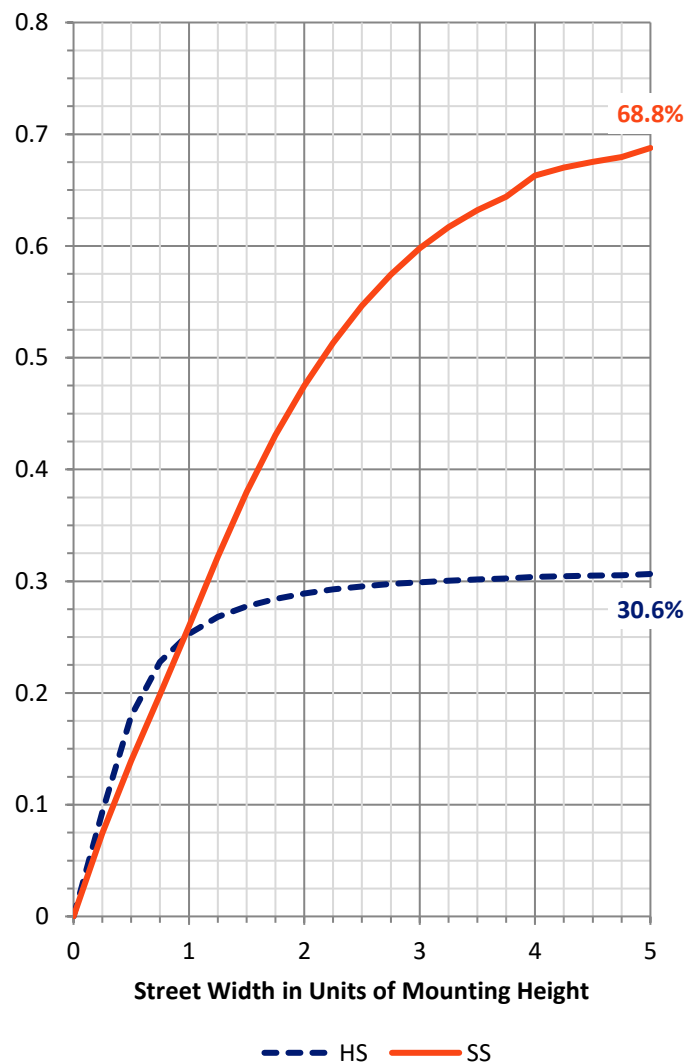
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20950.3	0.0	20950.3
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	46667.7	0.0	46667.7
	% Fixture	69.0	0.0	69.0
Total	Lumens	67618.0	0.0	67618.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	771.8	1.1
10°-20°	2591.4	3.8
20°-30°	4731.6	7.0
30°-40°	6710.7	9.9
40°-50°	9061.5	13.4
50°-60°	12190.1	18.0
60°-70°	15472.1	22.9
70°-80°	14041.9	20.8
80°-90°	2046.9	3.0
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°	67618.0	100.0
0°-180°	67618.0	100.0

Coefficient of Utilization



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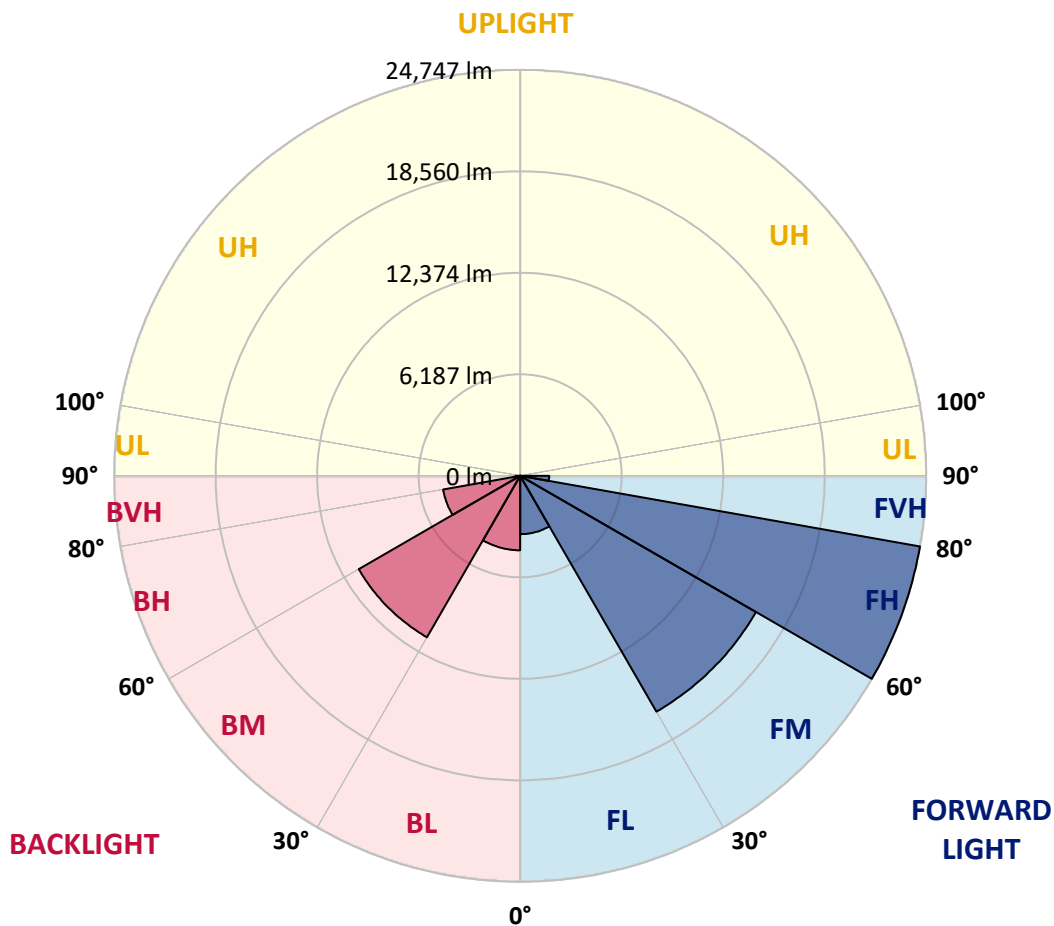
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3556.8	5.3			
FM	(30°-60°)	16598.7	24.5			
FH	(60°-80°)	24747.2	36.6			G5
FVH	(80°-90°)	1765.1	2.6			G5
BL	(0°-30°)	4538.0	6.7	B4/5000		
BM	(30°-60°)	11363.7	16.8	B5		
BH	(60°-80°)	4766.8	7.0	B4/5000		G4/5000
BVH	(80°-90°)	281.8	0.4			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	7732.2	7732.2	7732.2	7732.2	7732.2	7732.2	7732.2	7732.2	7732.2	7732.2	7732.2
2.5°	7613.9	7656.9	7646.1	7631.8	7631.8	7635.4	7631.8	7656.9	7682.0	7707.1	7746.6
5°	7692.8	7735.8	7714.3	7696.3	7682.0	7678.4	7667.7	7664.1	7678.4	7710.7	7764.5
7.5°	7847.0	7890.0	7857.7	7825.5	7796.8	7782.4	7768.1	7746.6	7735.8	7753.7	7829.0
10°	8019.1	8062.2	8022.7	7965.3	7918.7	7900.8	7886.4	7864.9	7850.6	7861.3	7943.8
12.5°	8191.3	8234.3	8180.5	8101.6	8040.6	8029.9	8011.9	8004.8	8001.2	7997.6	8080.1
15°	8352.6	8388.5	8320.4	8227.1	8162.6	8144.6	8126.7	8137.5	8155.4	8176.9	8270.2
17.5°	8478.2	8514.0	8413.6	8291.7	8230.7	8223.5	8212.8	8248.6	8298.9	8352.6	8467.4
20°	8592.9	8628.8	8499.7	8334.7	8263.0	8263.0	8266.6	8341.9	8413.6	8492.5	8650.3
22.5°	8754.3	8783.0	8625.2	8399.3	8295.3	8302.4	8331.1	8406.4	8496.1	8603.7	8822.5
25°	8994.6	9016.1	8822.5	8521.2	8402.9	8424.4	8449.5	8485.3	8571.4	8696.9	8991.0
27.5°	9381.9	9399.9	9145.2	8736.4	8557.1	8592.9	8628.8	8603.7	8643.1	8750.7	9127.3
30°	9927.1	9937.8	9615.1	9073.5	8818.9	8836.8	8844.0	8740.0	8664.7	8750.7	9224.1
32.5°	10572.6	10569.0	10185.3	9482.4	9116.5	9098.6	9037.6	8833.2	8657.5	8732.8	9310.2
35°	11573.2	11533.8	11038.8	10056.2	9453.7	9342.5	9199.0	8937.2	8693.4	8714.9	9385.5
37.5°	13230.1	13108.2	12423.2	10995.8	9955.8	9672.4	9460.8	9105.8	8772.3	8707.7	9475.2
40°	15098.6	14944.4	14191.3	12283.3	10708.9	10253.4	9912.7	9346.1	8901.4	8740.0	9607.9
42.5°	17315.0	17096.2	16285.7	13800.3	11662.9	11003.0	10490.1	9650.9	9091.4	8844.0	9787.2
45°	20037.0	19746.5	18598.9	15511.0	12864.3	11985.6	11300.6	10113.6	9381.9	9044.8	10056.2
47.5°	22787.8	22859.5	21227.7	17469.2	14306.0	13197.8	12315.6	10809.3	9805.1	9367.6	10490.1
50°	25710.7	25760.9	23842.2	19638.9	15941.4	14567.8	13456.1	11587.6	10393.3	9826.6	11139.3
52.5°	27991.6	27998.8	26216.3	21909.1	17644.9	16074.1	14686.2	12477.0	11074.7	10436.3	12003.6
55°	29419.0	29401.0	27880.4	24057.4	19603.1	17655.7	16049.0	13488.3	11906.7	11153.6	13090.2
57.5°	30455.4	30401.6	29028.1	25904.3	21690.4	19524.2	17591.1	14636.0	12889.4	12007.2	14521.2
60°	30849.9	30817.7	29806.3	27500.3	23885.2	21589.9	19370.0	15919.9	14004.8	13014.9	16361.0
62.5°	31000.6	31061.5	30570.2	29046.0	26234.3	23878.0	21324.5	17454.9	15260.0	14155.4	18301.2
65°	31531.3	31642.5	31542.1	31068.7	28888.2	26557.1	23917.5	19280.3	16630.0	15378.3	20327.5
67.5°	32582.1	32693.3	32736.4	33489.5	32130.3	29896.0	27152.4	21554.1	18233.1	16647.9	21851.7
70°	32557.0	32524.8	33285.1	35415.4	36190.0	34518.8	31513.4	24351.4	20144.6	17702.3	22045.4
72.5°	29634.2	29375.9	31172.7	35393.9	39568.4	39346.0	36839.2	27959.3	21794.4	17831.4	19129.7
75°	22231.9	21543.3	24717.2	31897.2	40131.5	42086.0	40224.7	30197.2	21403.4	15754.9	13312.6
77.5°	9507.5	8815.3	12555.9	23612.6	35917.5	39342.5	37118.9	26345.5	17085.5	10418.4	6537.9
80°	2488.9	2485.4	3794.4	10705.3	24426.7	29053.2	25488.3	17013.7	9762.1	3722.6	1803.9
82.5°	1029.3	1004.2	1395.1	4163.8	11935.4	16303.6	13305.4	7588.8	3525.4	1007.8	598.9
85°	383.7	380.2	677.8	1438.1	4210.4	6724.4	4866.7	1940.2	878.7	491.3	269.0
87.5°	107.6	104.0	147.0	498.5	1025.7	1556.5	832.0	319.2	247.5	193.7	78.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7732.2	7732.2	7732.2	7732.2	7732.2	7732.2	7732.2	7732.2	7732.2	7732.2	7732.2
2.5°	7757.3	7775.2	7807.5	7832.6	7864.9	7900.8	7951.0	7983.3	8015.5	8037.0	8022.7
5°	7789.6	7829.0	7911.5	7994.0	8090.8	8180.5	8284.5	8359.8	8420.8	8438.7	8445.9
7.5°	7861.3	7925.9	8065.7	8205.6	8359.8	8506.9	8657.5	8786.6	8890.6	8930.1	8933.6
10°	7986.8	8072.9	8270.2	8467.4	8671.8	8897.8	9091.4	9277.9	9425.0	9485.9	9489.5
12.5°	8144.6	8252.2	8510.5	8783.0	9066.3	9378.4	9629.4	9858.9	10041.8	10124.3	10124.3
15°	8349.1	8488.9	8818.9	9184.7	9600.7	10034.7	10353.8	10608.5	10812.9	10913.3	10906.1
17.5°	8571.4	8757.9	9173.9	9726.2	10321.6	10891.8	11264.8	11451.3	11662.9	11759.7	11756.1
20°	8786.6	9016.1	9611.5	10414.8	11207.4	11813.5	12114.7	12165.0	12179.3	12190.1	12218.8
22.5°	9009.0	9317.4	10160.2	11282.7	12132.7	12552.3	12595.3	12380.1	12078.9	11939.0	11978.5
25°	9252.8	9661.7	10877.5	12240.3	12928.9	12979.1	12649.1	12125.5	11555.3	11293.5	11332.9
27.5°	9489.5	10059.8	11738.2	13154.8	13502.7	13061.6	12351.4	11609.1	10920.5	10644.3	10676.6
30°	9726.2	10515.2	12688.6	13954.6	13764.5	12857.1	11881.6	11053.2	10361.0	10070.5	10102.8
32.5°	9966.5	11046.0	13782.4	14532.0	13717.9	12423.2	11297.1	10429.2	9819.5	9514.6	9554.1
35°	10239.1	11698.7	14818.9	14847.6	13405.8	11784.8	10526.0	9683.2	9152.4	8908.5	8962.3
37.5°	10594.1	12527.2	15733.4	14926.5	12860.7	10848.8	9568.4	8800.9	8363.4	8252.2	8331.1
40°	11035.3	13524.2	16432.7	14800.9	12053.8	9711.9	8521.2	7907.9	7660.5	7685.6	7771.7
42.5°	11609.1	14639.6	16924.1	14478.2	10931.2	8539.1	7603.1	7330.5	7448.9	7549.3	7642.5
45°	12355.0	15797.9	17228.9	13929.5	9661.7	7545.7	7061.6	7126.1	7215.8	7226.5	7298.3
47.5°	13309.0	16970.7	17429.7	13101.0	8367.0	6846.4	6717.3	6731.6	6713.7	6638.4	6695.7
50°	14499.7	18111.2	17609.1	12003.6	7266.0	6408.8	6236.7	6186.5	5939.0	5695.2	5727.4
52.5°	15855.3	19158.4	17684.4	10640.8	6408.8	6043.0	5763.3	5447.7	4985.1	4909.7	4934.8
55°	17361.6	20126.7	17490.7	8965.9	5688.0	5573.2	5150.0	4769.9	4719.7	4655.1	4665.9
57.5°	19162.0	21170.3	17096.2	7097.4	4949.2	5024.5	4612.1	4655.1	4565.4	4465.0	4447.1
60°	21130.9	22249.8	16404.0	5393.9	4185.3	4339.5	4472.2	4468.6	4443.5	4361.0	4332.3
62.5°	22902.5	22959.9	15041.2	4131.5	3514.6	3808.7	4170.9	4167.4	4145.8	4099.2	4081.3
65°	23956.9	22852.3	12767.5	3252.8	2962.3	3371.2	3762.1	3790.8	3794.4	3790.8	3790.8
67.5°	23770.4	21593.5	9647.3	2589.4	2506.9	2926.5	3356.8	3396.3	3425.0	3432.2	3439.3
70°	21661.7	18828.4	6290.5	2065.7	2101.6	2535.6	2973.1	3012.5	3037.7	3066.3	3080.7
72.5°	16884.6	13843.4	3600.7	1671.2	1746.6	2198.4	2592.9	2639.6	2653.9	2707.7	2729.2
75°	10289.3	8141.1	1943.8	1316.2	1434.5	1879.3	2216.4	2270.2	2295.3	2359.8	2367.0
77.5°	4891.8	3525.4	1108.2	1025.7	1154.8	1535.0	1872.1	1933.1	1864.9	1900.8	1872.1
80°	1653.3	1309.0	699.3	781.8	882.2	1197.8	1499.1	1560.1	1416.6	1409.4	1395.1
82.5°	577.4	530.8	444.7	520.0	570.2	857.1	1133.3	1212.2	1054.4	1050.8	1000.6
85°	225.9	215.2	247.5	283.3	340.7	527.2	746.0	785.4	649.1	523.6	516.4
87.5°	46.6	50.2	61.0	64.6	104.0	182.9	269.0	329.9	261.8	222.4	204.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)