

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: P950243

Luminaire Tested: **GALN-SB4D-730-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950243
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4D-730-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41330 lumens
Efficiency: N/A
Efficacy: 140.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 293.6
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

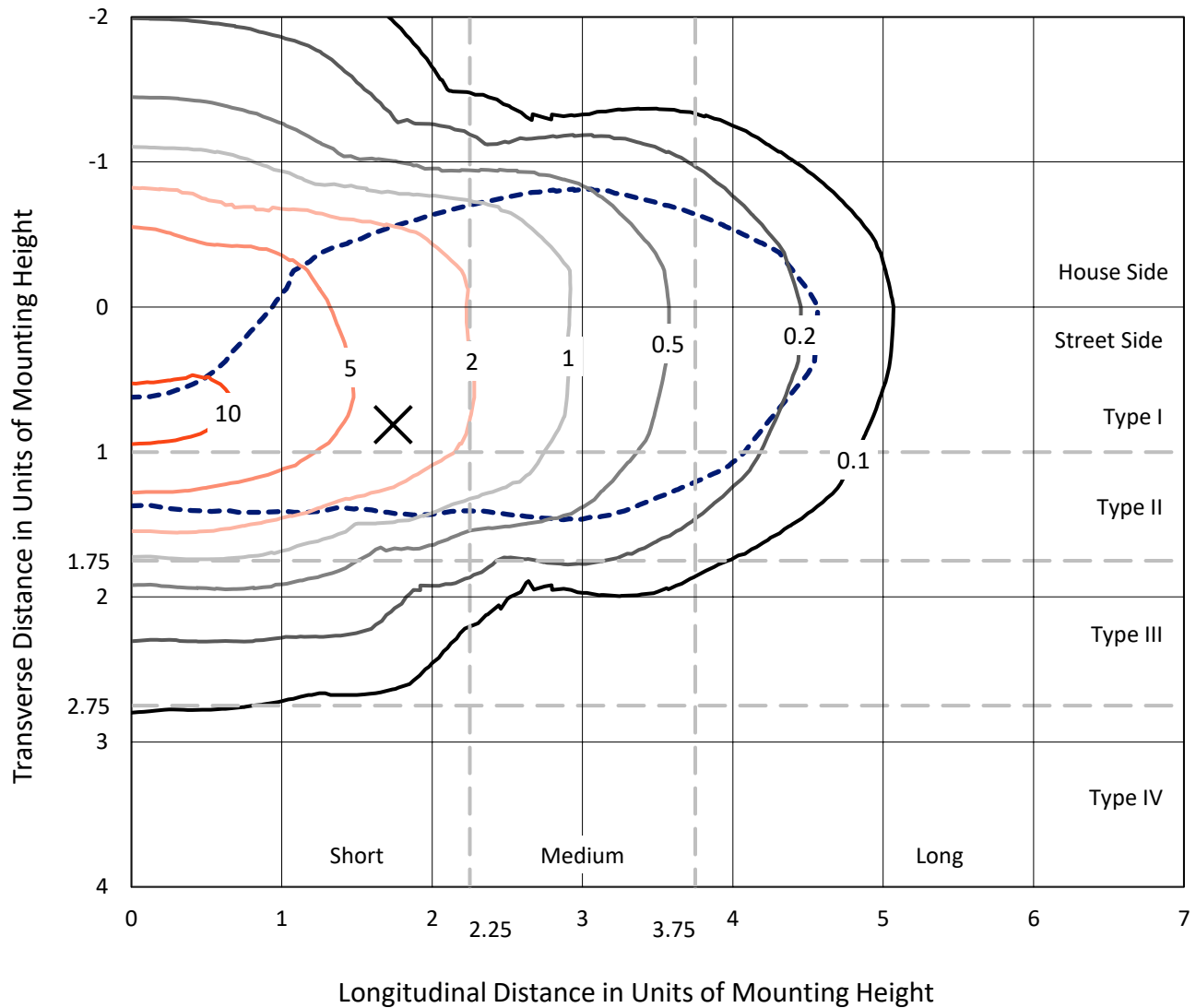


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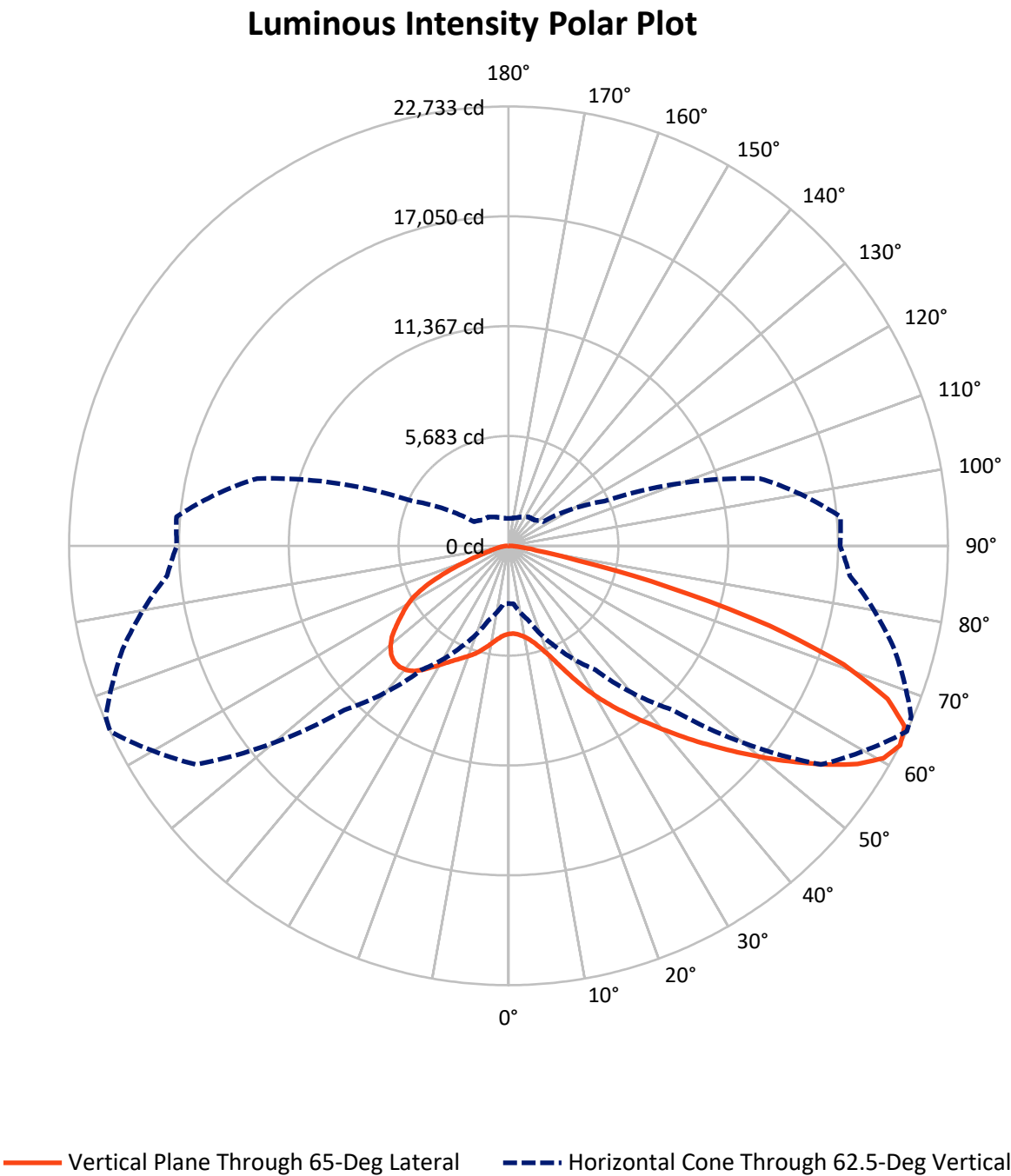
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 fc
Type II - Short - N/A

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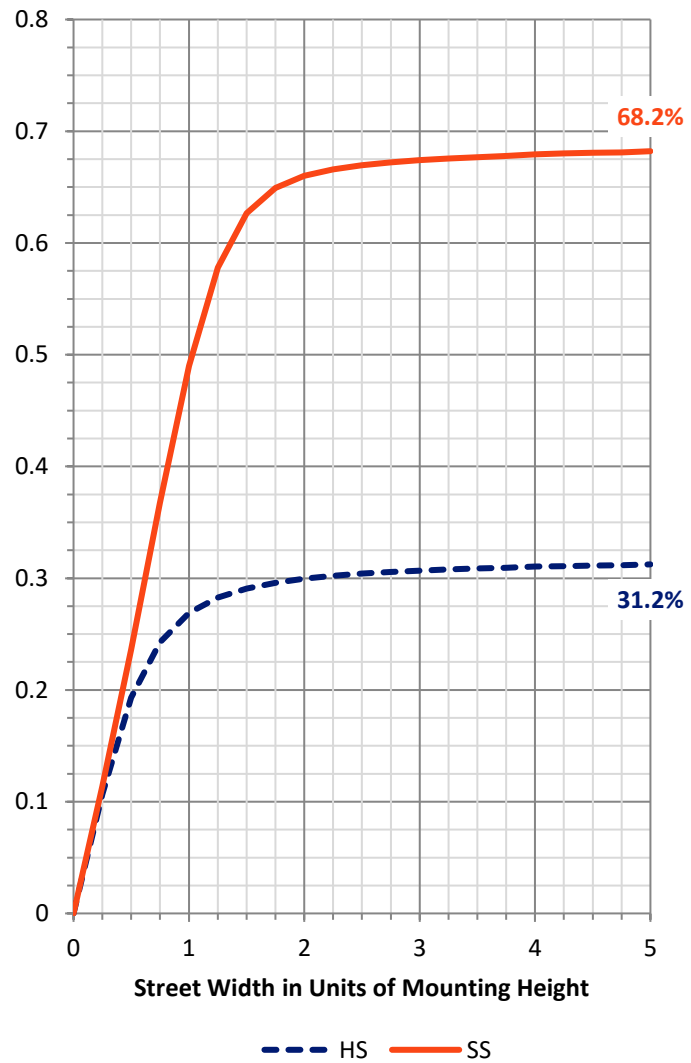
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13041.9	0.0	13041.9
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	28288.0	0.0	28288.0
	% Fixture	68.4	0.0	68.4
Total	Lumens	41330.0	0.0	41330.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	454.1	1.1
10°-20°	1539.8	3.7
20°-30°	3122.1	7.6
30°-40°	5402.7	13.1
40°-50°	8175.9	19.8
50°-60°	9585.8	23.2
60°-70°	8036.5	19.4
70°-80°	4436.8	10.7
80°-90°	576.3	1.4
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°	41330.0	100.0
0°-180°	41330.0	100.0

Coefficient of Utilization



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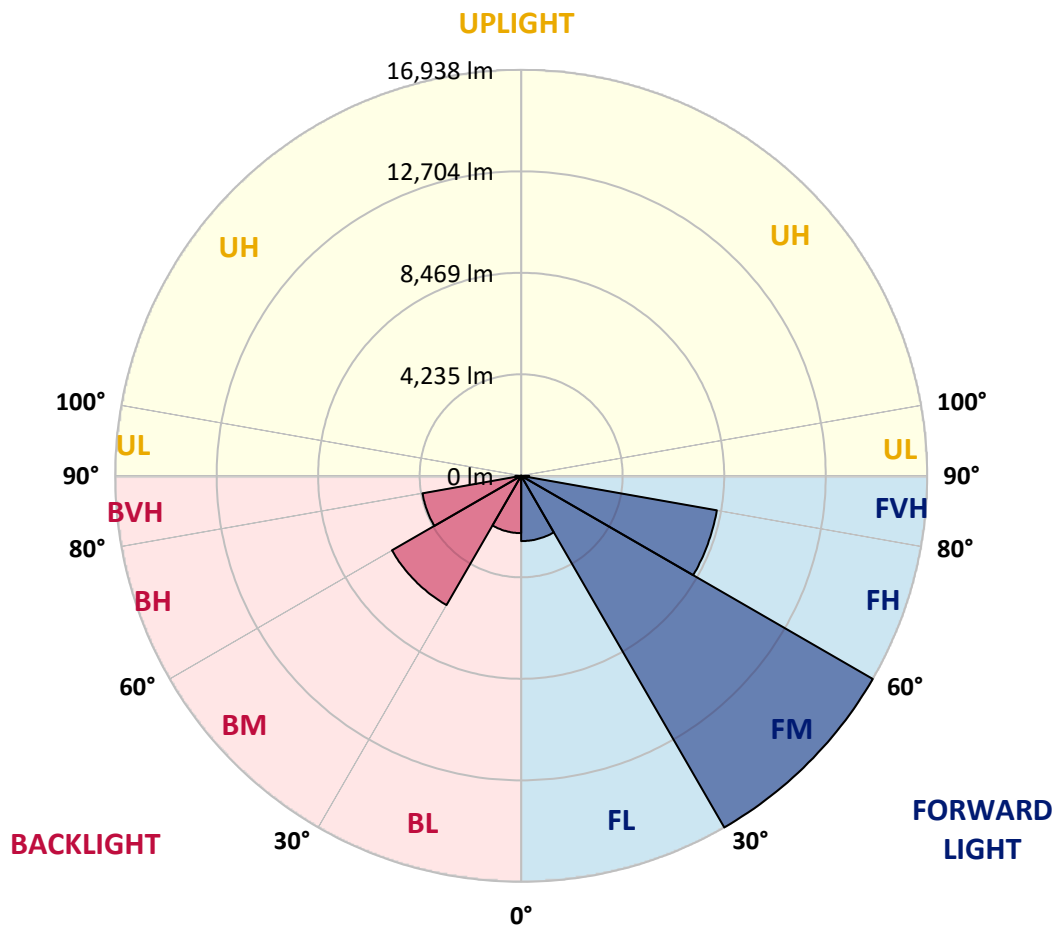
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2724.2	6.6			
FM	(30°-60°)	16938.4	41.0			
FH	(60°-80°)	8289.6	20.1			G4/12000
FVH	(80°-90°)	335.9	0.8			G3/500
BL	(0°-30°)	2391.7	5.8	B3/2500		
BM	(30°-60°)	6226.0	15.1	B4/8500		
BH	(60°-80°)	4183.7	10.1	B4/5000		G4/5000
BVH	(80°-90°)	240.4	0.6			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	4554.4	4554.4	4554.4	4554.4	4554.4	4554.4	4554.4	4554.4	4554.4	4554.4	4554.4
2.5°	4524.4	4511.5	4522.2	4522.2	4526.5	4524.4	4539.4	4543.7	4550.1	4563.0	4563.0
5°	4479.3	4477.2	4496.5	4513.6	4530.8	4545.8	4565.1	4593.0	4597.3	4612.3	4631.6
7.5°	4464.3	4451.5	4481.5	4502.9	4543.7	4580.1	4631.6	4678.8	4698.1	4704.5	4740.9
10°	4580.1	4558.7	4586.6	4599.4	4633.7	4670.2	4730.2	4805.3	4826.7	4852.4	4893.2
12.5°	4777.4	4753.8	4794.5	4813.8	4846.0	4878.2	4918.9	4991.8	5002.5	5049.7	5088.3
15°	5047.6	5019.7	5045.4	5069.0	5122.6	5152.6	5193.4	5264.1	5264.1	5300.6	5328.5
17.5°	5414.2	5377.8	5397.1	5405.7	5440.0	5485.0	5553.6	5615.8	5648.0	5635.1	5596.5
20°	5961.0	5916.0	5916.0	5873.1	5860.2	5896.7	5986.7	6072.5	6106.8	6040.4	5946.0
22.5°	6782.3	6717.9	6681.5	6535.7	6477.8	6482.1	6572.1	6677.2	6705.1	6587.1	6374.9
25°	7826.5	7725.7	7676.4	7462.0	7331.2	7217.5	7288.3	7423.4	7462.0	7316.2	6973.1
27.5°	8870.8	8877.2	8830.0	8572.7	8356.1	8148.1	8111.7	8253.2	8294.0	8128.9	7704.3
30°	10335.3	10183.0	10093.0	9784.2	9475.4	9183.8	9033.7	9091.6	9102.3	8905.1	8411.9
32.5°	11598.2	11559.7	11366.7	11096.5	10699.8	10243.1	9992.2	9900.0	9882.8	9602.0	9016.6
35°	13037.0	13015.6	12811.9	12490.3	12061.4	11426.7	10974.3	10710.5	10689.1	10294.5	9614.8
37.5°	14499.4	14499.4	14300.0	13948.3	13504.5	12711.1	12022.8	11604.7	11536.1	11021.4	10223.8
40°	15665.9	15595.1	15631.6	15483.6	14975.4	14132.8	13187.1	12580.3	12488.1	11870.6	10871.3
42.5°	16328.5	16304.9	16523.6	16688.7	16480.7	15807.4	14469.4	13637.4	13508.8	12805.5	11617.5
45°	16476.4	16450.7	16840.9	17445.6	17737.2	17460.6	15863.2	14750.3	14593.8	13783.2	12417.4
47.5°	16135.5	16084.0	16656.5	17610.7	18545.6	19032.4	17372.7	15957.5	15730.2	14735.3	13238.6
50°	15110.5	15061.2	15927.5	17194.7	18817.9	20100.2	19010.9	17237.6	16890.3	15755.9	14068.4
52.5°	12882.7	12906.2	14263.6	16004.7	18459.8	20764.9	20421.8	18586.4	18168.2	16800.2	14846.8
55°	10035.1	10086.6	11754.8	13671.7	17027.5	20664.1	21384.6	19975.8	19559.8	17782.3	15650.9
57.5°	7185.4	7412.7	8975.8	10873.5	14276.4	19066.7	21594.7	21296.7	20893.6	18854.4	16437.8
60°	4657.3	4698.1	6306.2	8218.9	10871.3	16227.7	21168.0	22298.1	21982.8	19948.0	17096.1
62.5°	2984.8	3012.7	3992.6	5748.7	7824.4	12005.7	19731.4	22733.3	22636.8	20670.6	17728.7
65°	2193.6	2172.1	2682.5	3799.6	5270.6	7404.1	16941.7	22523.2	22714.0	21123.0	18251.9
67.5°	1831.2	1801.2	2052.0	2631.0	3883.2	4204.9	12535.3	21157.3	21856.3	21071.5	18635.7
70°	1668.2	1642.5	1794.7	1953.4	3029.8	2815.4	6319.1	18393.4	19469.8	20486.2	18573.5
72.5°	1413.1	1368.0	1576.0	1734.7	2356.5	2159.3	2611.7	14128.5	15440.7	18609.9	17698.6
75°	1095.7	1065.7	1243.7	1526.7	1771.2	1685.4	1651.1	8579.1	10011.5	14392.2	15483.6
77.5°	868.4	827.7	990.6	1190.1	1593.2	1271.5	1202.9	3694.5	5114.0	9188.1	11585.4
80°	654.0	617.5	752.6	941.3	1224.4	958.5	778.4	1507.4	1927.7	4655.2	5825.9
82.5°	465.3	433.1	525.3	690.4	823.4	859.8	478.2	844.8	949.9	1794.7	1301.6
85°	298.1	278.8	351.7	433.1	523.2	553.2	291.6	441.7	484.6	739.8	542.5
87.5°	163.0	132.9	188.7	201.6	242.3	220.9	139.4	160.8	173.7	268.0	229.4
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°	4554.4	4554.4	4554.4	4554.4	4554.4	4554.4	4554.4	4554.4	4554.4	4554.4	4554.4
2.5°	4571.5	4578.0	4599.4	4605.8	4620.9	4640.2	4653.0	4665.9	4665.9	4678.8	4678.8
5°	4633.7	4648.7	4693.8	4717.3	4755.9	4794.5	4818.1	4846.0	4863.2	4871.7	4876.0
7.5°	4753.8	4777.4	4841.7	4882.5	4948.9	5002.5	5039.0	5077.6	5086.2	5109.7	5101.2
10°	4916.8	4944.6	5017.5	5094.7	5174.1	5240.5	5274.9	5302.7	5313.5	5317.7	5307.0
12.5°	5103.3	5144.1	5238.4	5332.7	5416.4	5474.3	5482.8	5476.4	5446.4	5420.7	5420.7
15°	5332.7	5369.2	5474.3	5577.2	5658.7	5669.4	5615.8	5581.5	5545.0	5538.6	5538.6
17.5°	5607.2	5626.5	5723.0	5823.8	5830.2	5793.8	5714.4	5682.3	5648.0	5624.4	5626.5
20°	5926.7	5920.3	5988.9	6031.8	5986.7	5875.2	5755.2	5701.6	5667.3	5639.4	5641.5
22.5°	6308.4	6259.1	6250.5	6239.8	6119.7	5886.0	5723.0	5654.4	5600.8	5562.2	5575.0
25°	6863.7	6675.0	6544.3	6471.3	6201.2	5828.1	5620.1	5467.8	5367.1	5300.6	5326.3
27.5°	7558.5	7241.1	6910.9	6732.9	6201.2	5710.1	5371.3	5124.8	4959.7	4891.0	4925.3
30°	8221.1	7888.7	7402.0	7048.1	6186.2	5517.2	4970.4	4627.3	4434.3	4365.7	4406.4
32.5°	8787.1	8424.8	7923.0	7393.4	6149.7	5204.1	4472.9	4093.4	3906.8	3825.3	3866.1
35°	9312.5	8926.5	8446.2	7772.9	6053.2	4745.2	3926.1	3636.6	3428.7	3297.9	3340.7
37.5°	9850.7	9391.8	8941.5	8116.0	5879.5	4209.2	3505.8	3259.3	3014.8	2839.0	2886.2
40°	10436.1	9887.1	9471.2	8319.7	5594.3	3698.8	3179.9	2954.8	2695.3	2508.8	2545.2
42.5°	11120.1	10481.1	10060.8	8424.8	5204.1	3336.5	2967.6	2746.8	2502.3	2350.1	2380.1
45°	11834.1	11135.1	10599.0	8422.6	4768.8	3167.1	2899.0	2680.3	2410.1	2251.5	2277.2
47.5°	12582.5	11819.1	11064.3	8285.4	4391.4	3190.6	2860.4	2536.6	2238.6	2084.2	2105.7
50°	13332.9	12567.4	11514.6	8028.1	4230.6	3139.2	2716.8	2335.1	1983.4	1844.1	1852.6
52.5°	14077.0	13363.0	11902.7	7661.4	4067.6	2948.3	2532.4	2073.5	1878.4	1781.9	1781.9
55°	14825.3	14149.9	12325.1	7127.5	3660.2	2725.3	2223.6	1974.9	1794.7	1706.8	1698.2
57.5°	15575.8	15059.1	12726.1	6593.6	3147.8	2450.9	2054.2	1854.8	1711.1	1636.1	1623.2
60°	16356.3	16099.0	13140.0	6102.5	2641.7	2099.2	1929.8	1758.3	1612.5	1528.9	1522.4
62.5°	17160.4	17244.1	13463.7	5470.0	2176.4	1884.8	1818.3	1642.5	1501.0	1421.6	1419.5
65°	17971.0	18348.3	13676.0	4593.0	1764.7	1681.1	1698.2	1516.0	1372.3	1303.7	1301.6
67.5°	18582.1	19143.9	13616.0	3475.8	1447.4	1488.1	1548.1	1383.0	1248.0	1194.3	1196.5
70°	18650.7	19049.5	13024.2	2380.1	1211.5	1299.4	1380.9	1252.2	1112.9	1074.3	1076.4
72.5°	17737.2	17763.0	11375.2	1554.6	1025.0	1140.7	1205.1	1119.3	984.2	945.6	943.5
75°	15342.1	14690.3	8351.9	1025.0	857.7	979.9	1040.0	979.9	849.1	857.7	827.7
77.5°	11624.0	10403.9	5071.2	729.0	716.2	823.4	904.9	862.0	750.5	842.7	741.9
80°	5988.9	5628.7	2262.2	544.6	566.1	658.3	744.1	688.3	594.0	566.1	516.8
82.5°	1372.3	1595.3	892.0	390.3	409.6	473.9	568.2	516.8	426.7	360.2	355.9
85°	480.3	525.3	394.5	244.4	240.2	295.9	386.0	345.2	289.5	231.6	244.4
87.5°	152.2	199.4	148.0	98.6	102.9	132.9	178.0	163.0	135.1	87.9	92.2
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)