

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: P457014

Luminaire Tested: **GALN-SA8B-750-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457014
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8B-750-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45542 lumens
Efficiency: N/A
Efficacy: 140.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

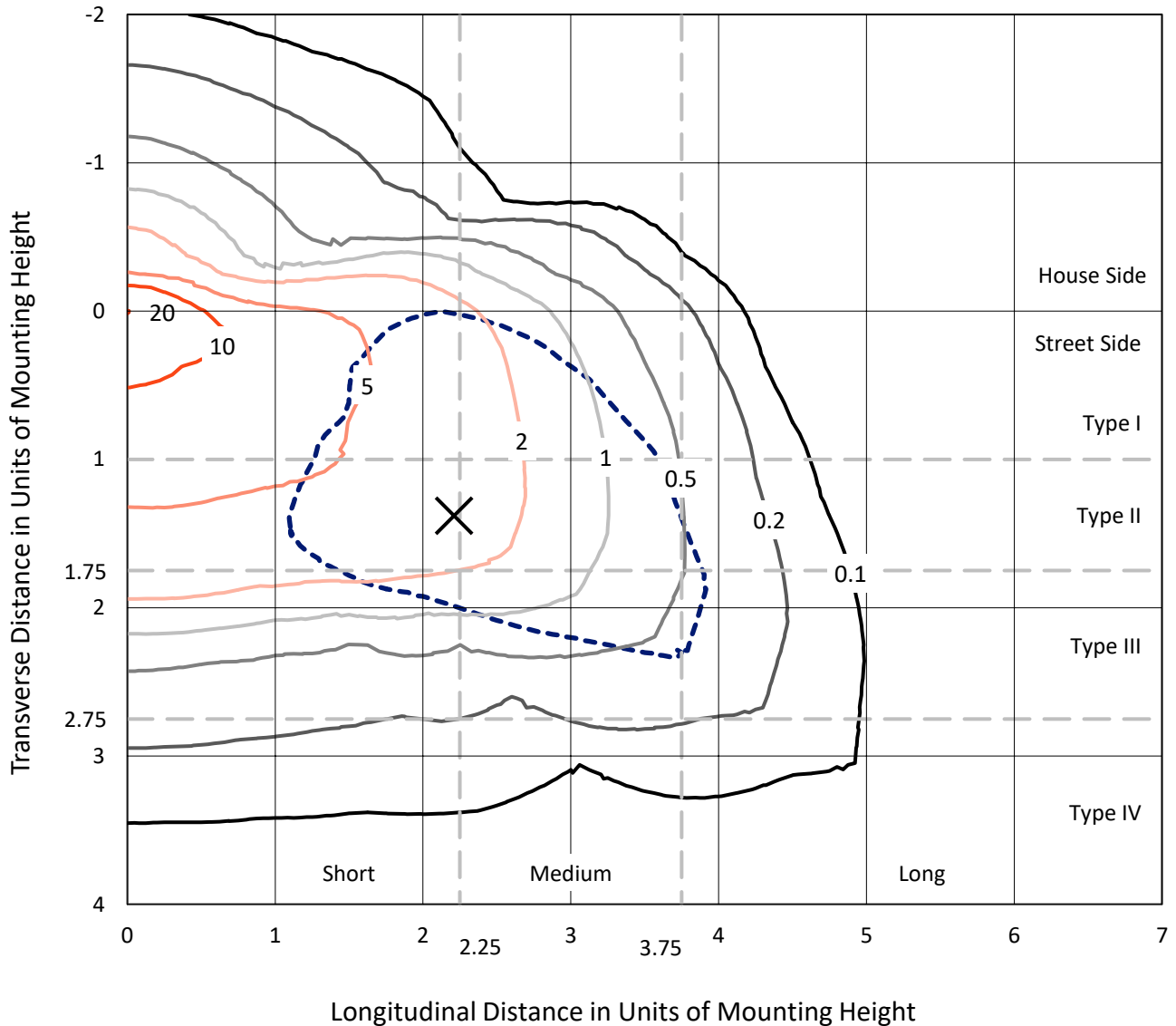
Input Watts (W): 325
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

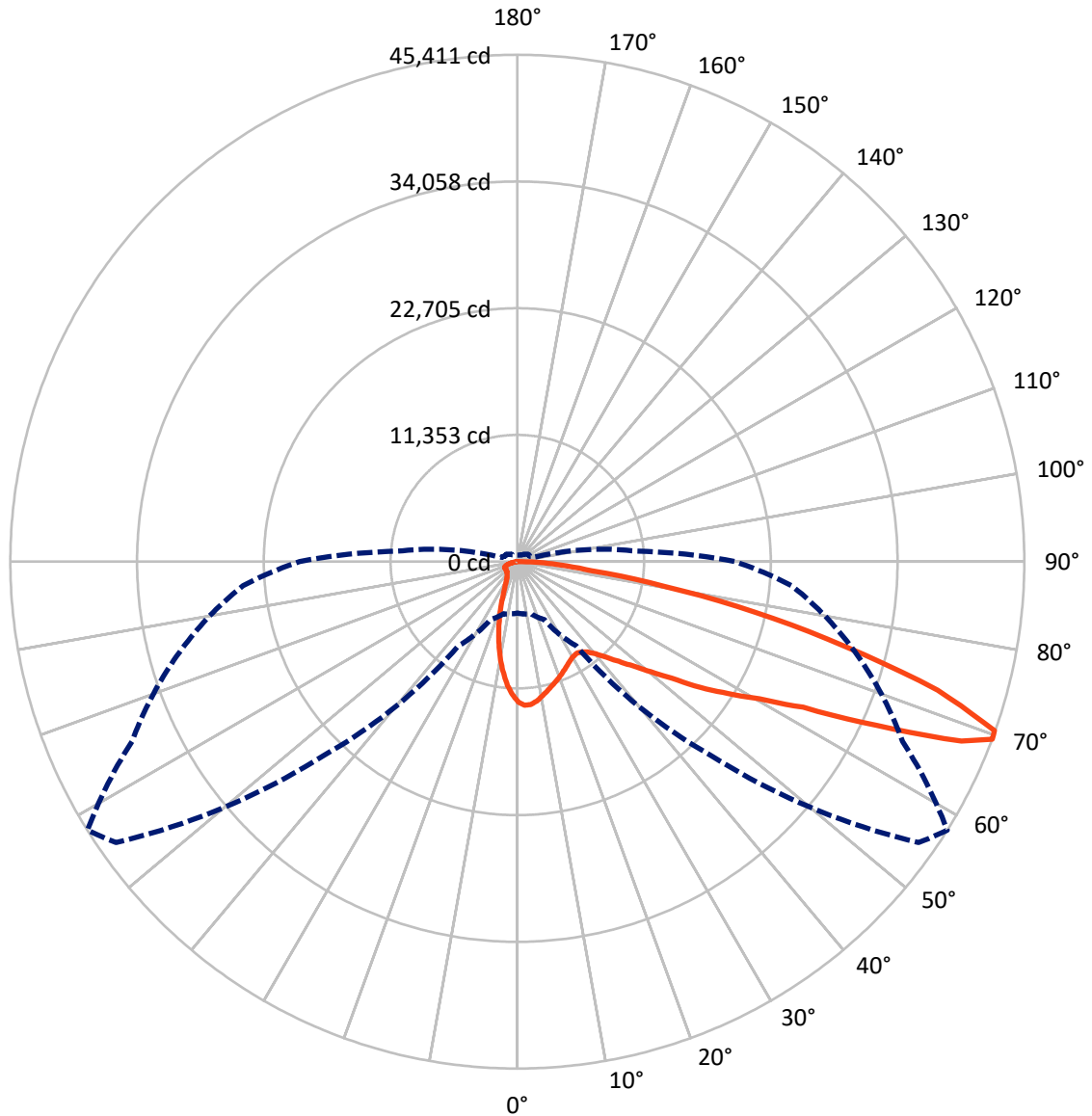
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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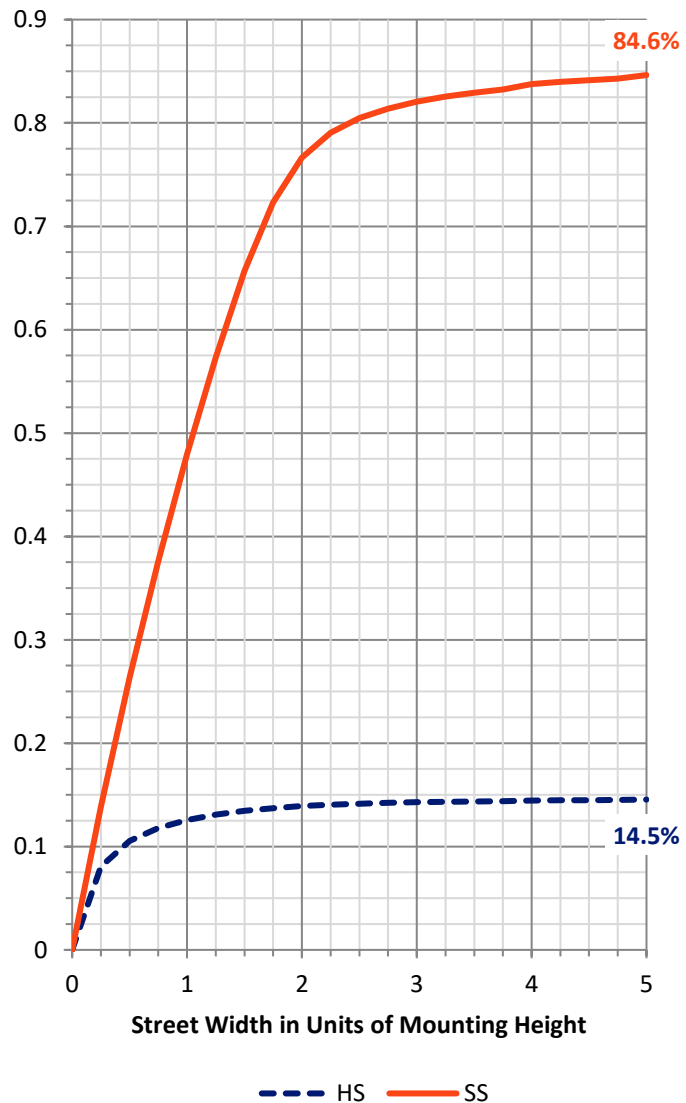
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6674.2	0.0	6674.2
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	38867.8	0.0	38867.8
	% Fixture	85.3	0.0	85.3
Total	Lumens	45542.0	0.0	45542.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1068.8	2.3
10°-20°	2346.9	5.2
20°-30°	3032.2	6.7
30°-40°	3938.2	8.6
40°-50°	5725.6	12.6
50°-60°	9136.2	20.1
60°-70°	12204.8	26.8
70°-80°	7035.6	15.4
80°-90°	1053.8	2.3
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°	45542.0	100.0
0°-180°	45542.0	100.0



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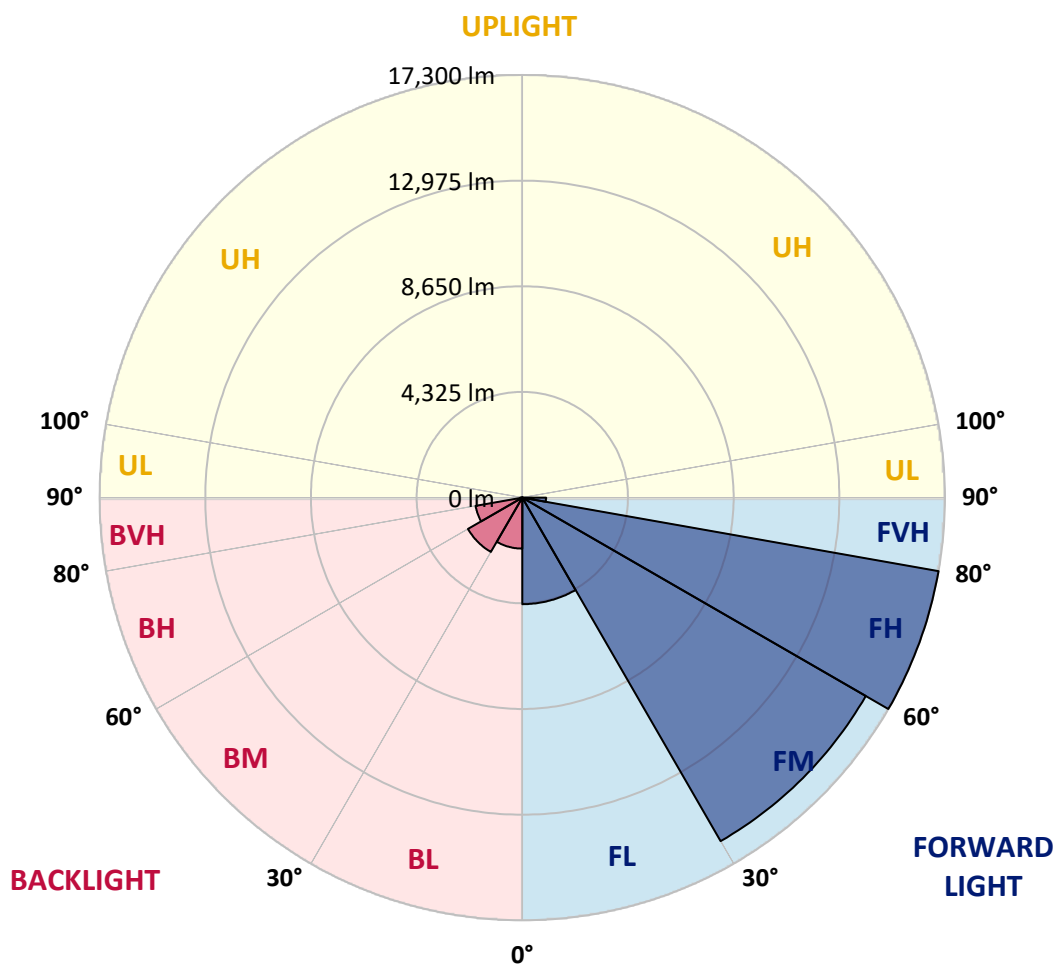
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4361.8	9.6			
FM	(30°-60°)	16233.4	35.6			
FH	(60°-80°)	17299.7	38.0			G5
FVH	(80°-90°)	973.1	2.1			G5
BL	(0°-30°)	2086.1	4.6	B3/2500		
BM	(30°-60°)	2566.7	5.6	B3/5000		
BH	(60°-80°)	1940.7	4.3	B3/2500		G3/2500
BVH	(80°-90°)	80.7	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-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	12585.1	12585.1	12585.1	12585.1	12585.1	12585.1	12585.1	12585.1	12585.1	12585.1	12585.1
2.5°	13052.5	13088.0	13077.9	13065.2	13044.9	12989.0	12897.5	12882.3	12823.9	12699.4	12544.5
5°	12851.8	12882.3	12884.8	12902.6	12928.0	12917.9	12851.8	12844.2	12757.9	12590.2	12331.2
7.5°	12163.5	12204.2	12293.1	12392.1	12481.0	12564.8	12585.1	12597.8	12544.5	12351.5	12006.0
10°	11388.9	11429.5	11470.1	11617.4	11835.9	12044.1	12216.9	12239.7	12252.4	12074.6	11653.0
12.5°	10530.4	10614.2	10700.5	10919.0	11211.1	11538.7	11843.5	11891.8	11978.1	11843.5	11348.2
15°	9801.4	9887.8	10012.2	10207.8	10560.9	11033.3	11462.5	11541.2	11711.4	11642.8	11063.7
17.5°	9296.0	9326.5	9412.8	9636.3	10017.3	10515.1	11089.1	11246.6	11518.4	11500.6	10819.9
20°	8897.2	8935.3	8988.7	9125.8	9522.0	10047.8	10741.2	10944.4	11312.7	11373.6	10578.6
22.5°	8729.6	8757.5	8749.9	8823.6	9092.8	9621.1	10388.1	10629.4	11129.8	11287.3	10355.1
25°	8739.8	8765.2	8727.1	8709.3	8869.3	9245.2	10019.9	10327.2	10982.5	11228.8	10151.9
27.5°	8909.9	8927.7	8856.6	8785.5	8798.2	9011.5	9715.1	10055.4	10858.0	11254.2	9981.8
30°	9138.5	9171.5	9125.8	9039.5	8945.5	8955.6	9519.5	9854.8	10799.6	11343.1	9900.5
32.5°	9433.1	9463.6	9443.3	9374.7	9252.8	9118.2	9471.2	9781.1	10804.7	11523.5	9882.7
35°	9743.0	9804.0	9837.0	9831.9	9732.8	9499.2	9661.7	9918.3	10926.6	11825.7	9986.8
37.5°	10093.5	10144.3	10286.5	10378.0	10286.5	10014.8	10091.0	10268.8	11195.8	12262.6	10215.4
40°	10433.9	10510.1	10718.3	11002.8	10967.2	10728.5	10746.3	10863.1	11670.8	12912.8	10662.4
42.5°	10789.4	10880.9	11244.1	11665.7	11749.5	11564.1	11612.4	11716.5	12346.4	13814.4	11429.5
45°	11246.6	11355.8	11802.9	12328.6	12658.8	12544.5	12681.7	12732.5	13250.6	14987.9	12440.4
47.5°	11835.9	11962.9	12514.0	13169.3	13636.7	13740.8	13979.5	13949.1	14370.7	16377.2	13751.0
50°	12829.0	12900.1	13420.8	14088.8	14731.3	15201.2	15460.3	15508.6	15760.0	17728.4	15216.5
52.5°	14010.0	14073.5	14449.4	15033.6	15838.7	16834.4	17474.4	17317.0	17377.9	19374.3	16930.9
55°	15338.4	15445.1	15683.8	16072.4	17116.3	18581.8	19867.0	19905.1	19229.5	20949.0	18574.2
57.5°	16367.0	16547.4	16956.3	17510.0	18833.3	20524.8	22252.0	22277.4	21413.8	22630.4	20387.7
60°	15848.9	16062.2	16996.9	18345.6	21086.1	23915.6	25101.7	24956.9	23539.7	24545.5	22599.9
62.5°	13613.8	13651.9	15010.7	17118.8	21779.5	28451.8	29343.3	28731.2	26376.7	26973.6	24847.7
65°	8810.9	9059.8	10136.7	13090.6	19501.3	30968.8	36775.0	35360.3	30354.2	29729.4	26729.8
67.5°	5562.4	5498.9	5945.9	7474.9	13413.1	28751.5	43117.1	42893.6	35555.9	31469.2	26280.2
69°	4612.4	4683.6	4835.9	5730.0	9230.0	24548.0	43866.4	45410.6	38078.0	31332.1	24647.1
70°	4183.2	4216.2	4376.2	5079.8	7121.8	20560.4	42637.1	45342.1	39068.5	30758.0	23463.5
72.5°	3319.6	3317.1	3591.4	4226.4	5323.6	11736.8	35009.8	39365.7	37961.2	28086.1	19387.0
75°	2522.1	2562.7	2865.0	3576.2	4904.5	6413.2	24431.2	30316.1	30318.6	22183.4	12097.5
77.5°	1818.6	1844.0	2197.0	3002.1	4620.1	5199.1	16273.1	21744.0	20441.0	10164.6	3802.2
80°	1191.2	1206.4	1475.7	2377.3	4165.4	4904.5	9649.0	13309.0	9641.4	2697.4	1257.2
82.5°	652.8	728.9	901.7	1539.2	3342.5	4531.2	5864.6	6735.8	3616.8	1201.4	655.3
85°	327.6	348.0	508.0	899.1	2184.3	3748.9	4084.1	3863.2	1866.8	596.9	340.3
87.5°	96.5	121.9	210.8	348.0	886.4	1953.2	2273.2	2039.5	718.8	215.9	71.1
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°	12585.1	12585.1	12585.1	12585.1	12585.1	12585.1	12585.1	12585.1	12585.1	12585.1	12585.1
2.5°	12481.0	12435.3	12232.1	12049.2	11881.6	11703.8	11553.9	11421.9	11434.6	11437.1	11302.5
5°	12196.5	12092.4	11706.3	11345.7	11040.9	10654.8	10324.6	10111.3	10004.6	9862.4	9913.2
7.5°	11810.5	11609.8	11073.9	10474.5	9913.2	9412.8	8869.3	8495.9	8257.2	8026.0	8056.5
10°	11411.7	11089.1	10309.4	9517.0	8790.6	7990.5	7297.1	6702.8	6260.8	6095.7	5986.5
12.5°	11002.8	10578.6	9588.1	8534.0	7530.8	6573.2	5590.3	4952.8	4465.1	4206.1	4239.1
15°	10629.4	10113.8	8836.3	7551.1	6248.1	5107.7	4127.3	3520.3	3179.9	3108.8	3149.5
17.5°	10284.0	9608.4	8132.7	6596.1	5074.7	3830.2	3101.2	2758.3	2621.2	2583.1	2580.5
20°	9928.4	9179.2	7342.8	5575.1	3954.6	2969.1	2545.0	2385.0	2359.6	2374.8	2377.3
22.5°	9567.8	8648.3	6530.1	4561.6	3149.5	2428.1	2224.9	2181.8	2202.1	2237.6	2242.7
25°	9235.0	8181.0	5747.8	3672.7	2514.5	2133.5	2034.4	2034.4	2080.2	2133.5	2136.0
27.5°	8960.7	7728.9	4968.0	2915.8	2105.6	1920.2	1887.1	1904.9	1968.4	2009.1	2011.6
30°	8734.7	7307.3	4231.5	2336.7	1851.6	1750.0	1742.4	1772.8	1818.6	1856.7	1859.2
32.5°	8564.5	6936.4	3543.1	1963.3	1676.3	1620.4	1617.9	1640.8	1666.2	1676.3	1686.5
35°	8498.5	6629.1	2913.3	1727.1	1559.5	1523.9	1523.9	1521.4	1531.6	1536.6	1541.7
37.5°	8551.8	6392.9	2425.6	1574.7	1473.1	1447.7	1432.5	1417.3	1412.2	1412.2	1414.7
40°	8777.9	6268.4	2062.4	1475.7	1412.2	1374.1	1346.1	1328.4	1310.6	1315.7	1320.7
42.5°	9257.9	6291.3	1816.0	1409.6	1358.8	1305.5	1264.9	1244.5	1231.8	1247.1	1244.5
45°	10022.4	6519.9	1658.5	1363.9	1305.5	1236.9	1198.8	1178.5	1178.5	1201.4	1209.0
47.5°	11091.7	6956.8	1574.7	1328.4	1264.9	1183.6	1145.5	1130.2	1135.3	1173.4	1176.0
50°	12397.2	7716.2	1559.5	1310.6	1244.5	1145.5	1102.3	1087.1	1099.8	1140.4	1145.5
52.5°	13837.3	8694.0	1633.1	1313.1	1226.8	1122.6	1066.8	1043.9	1056.6	1089.6	1099.8
55°	15544.1	9918.3	1823.6	1323.3	1201.4	1109.9	1041.4	990.6	1005.8	1028.7	1031.2
57.5°	17286.5	11462.5	2158.9	1325.8	1181.0	1087.1	998.2	932.1	932.1	947.4	955.0
60°	19414.9	13143.9	2600.8	1328.4	1183.6	1054.1	939.8	866.1	855.9	863.6	866.1
62.5°	21528.1	14551.0	2674.5	1320.7	1209.0	1021.0	876.3	800.1	782.3	779.7	774.7
65°	22460.2	14289.4	2191.9	1285.2	1236.9	1000.7	825.5	736.6	706.1	695.9	695.9
67.5°	20941.4	12087.3	1648.4	1236.9	1219.1	980.4	777.2	683.2	647.7	627.4	627.4
69°	19514.0	10751.3	1480.8	1203.9	1173.4	947.4	746.7	655.3	612.1	589.3	581.6
70°	18411.6	9831.9	1409.6	1176.0	1130.2	909.3	723.9	635.0	586.7	561.3	556.2
72.5°	14693.2	7713.6	1234.4	1069.3	962.6	764.5	642.6	571.5	525.8	497.8	490.2
75°	8468.0	4180.7	1023.6	929.6	774.7	594.3	543.5	497.8	462.3	436.9	429.2
77.5°	2605.9	1615.4	741.6	734.0	568.9	459.7	434.3	416.5	391.1	363.2	358.1
80°	1097.2	822.9	502.9	495.3	378.4	320.0	312.4	309.9	299.7	276.8	269.2
82.5°	602.0	464.8	350.5	304.8	228.6	185.4	193.0	195.6	188.0	165.1	149.9
85°	294.6	254.0	170.2	137.2	104.1	66.0	63.5	76.2	71.1	50.8	55.9
87.5°	58.4	71.1	45.7	20.3	10.2	0.0	0.0	0.0	0.0	0.0	0.0
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)