

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: P652334

Luminaire Tested: **GALN-SA4B-840-U-SL3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652334  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4B-840-U-SL3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16015.2 lumens  
Efficiency: N/A  
Efficacy: 97.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

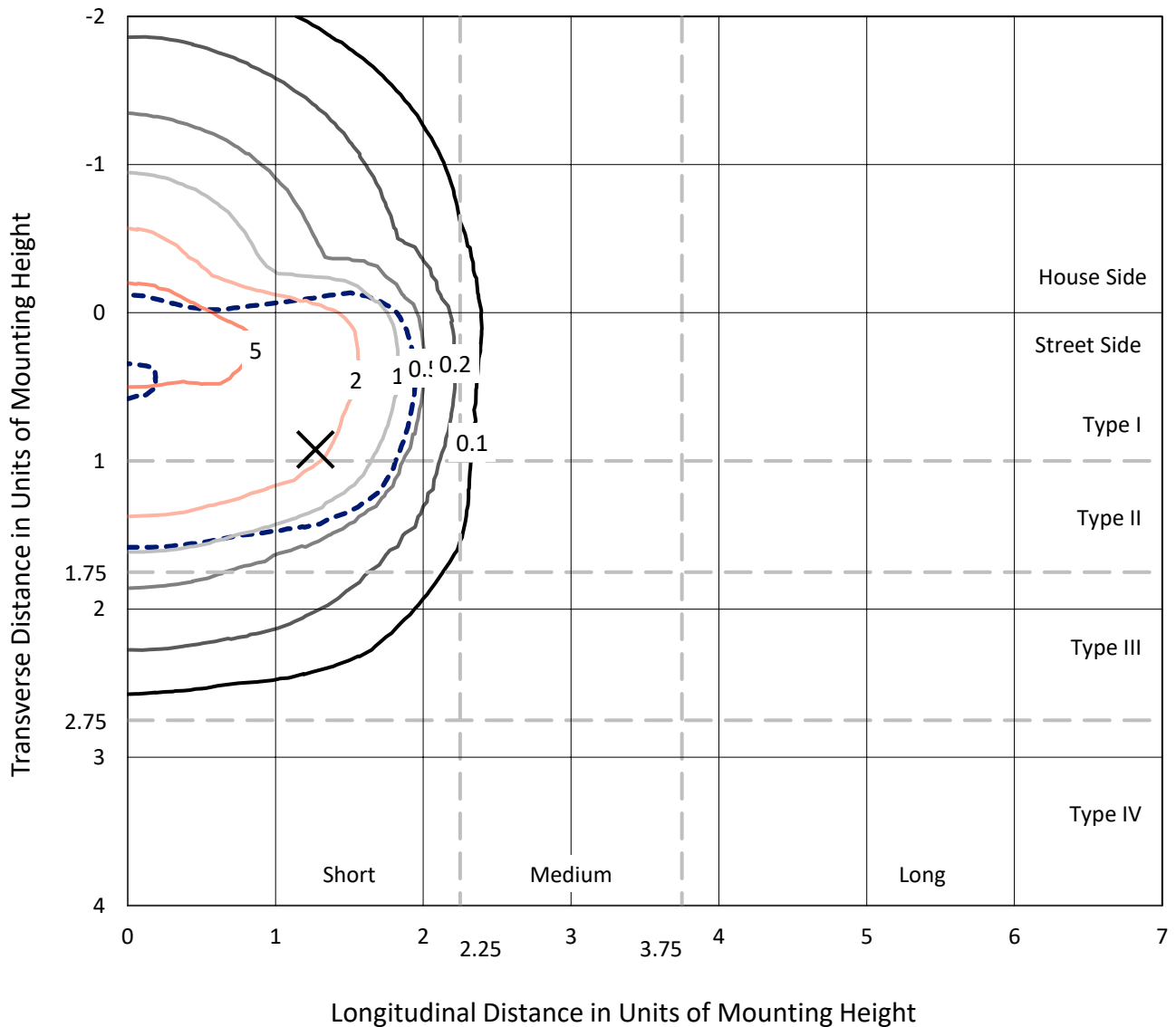
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P652334  
 CATALOG NUMBER: GALN-SA4B-840-U-SL3-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

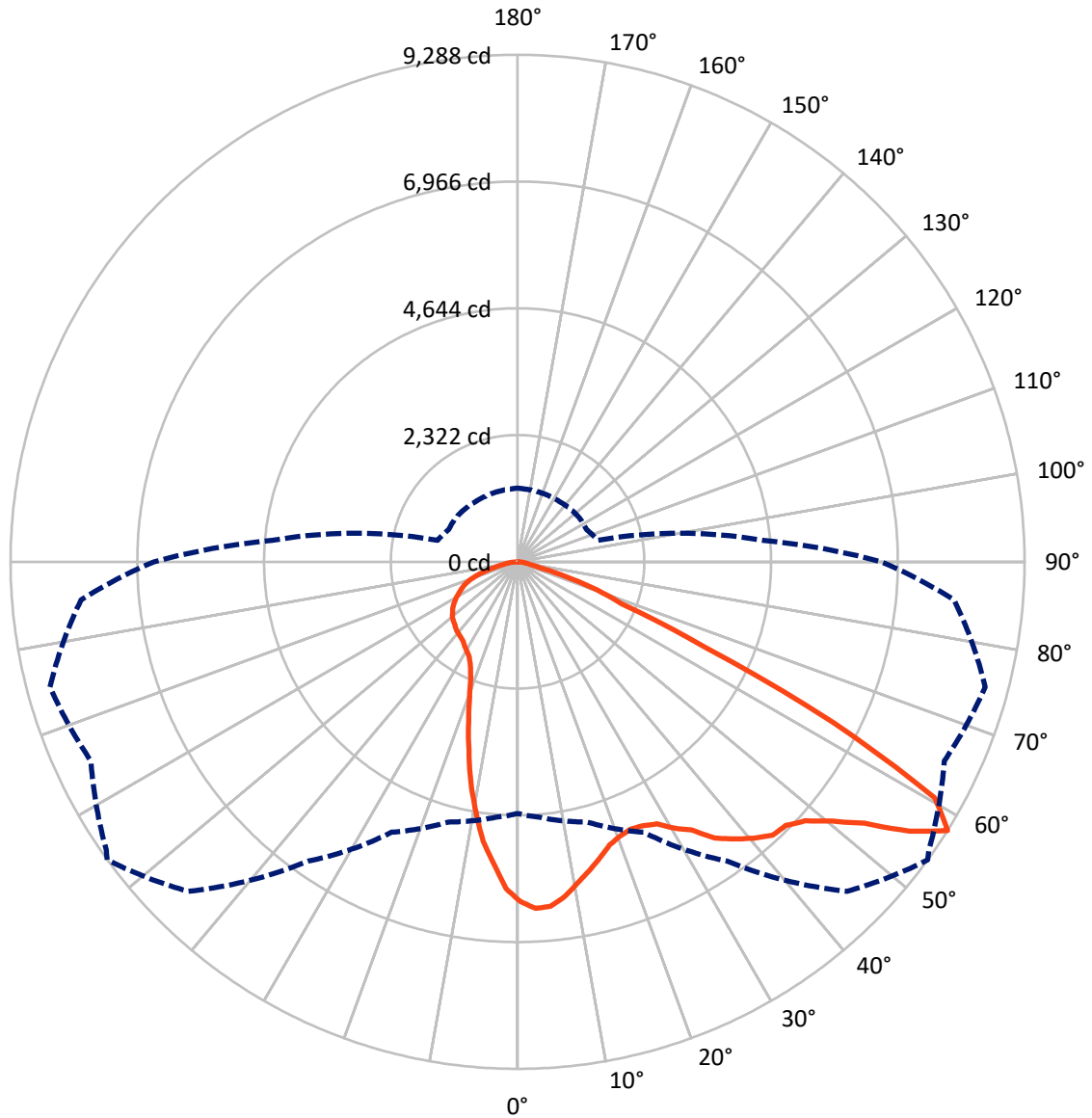
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc  
 Type II - Short - N/A

REPORT NUMBER: P652334  
CATALOG NUMBER: GALN-SA4B-840-U-SL3-GRSWH

### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral      - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P652334  
 CATALOG NUMBER: GALN-SA4B-840-U-SL3-GRSWH

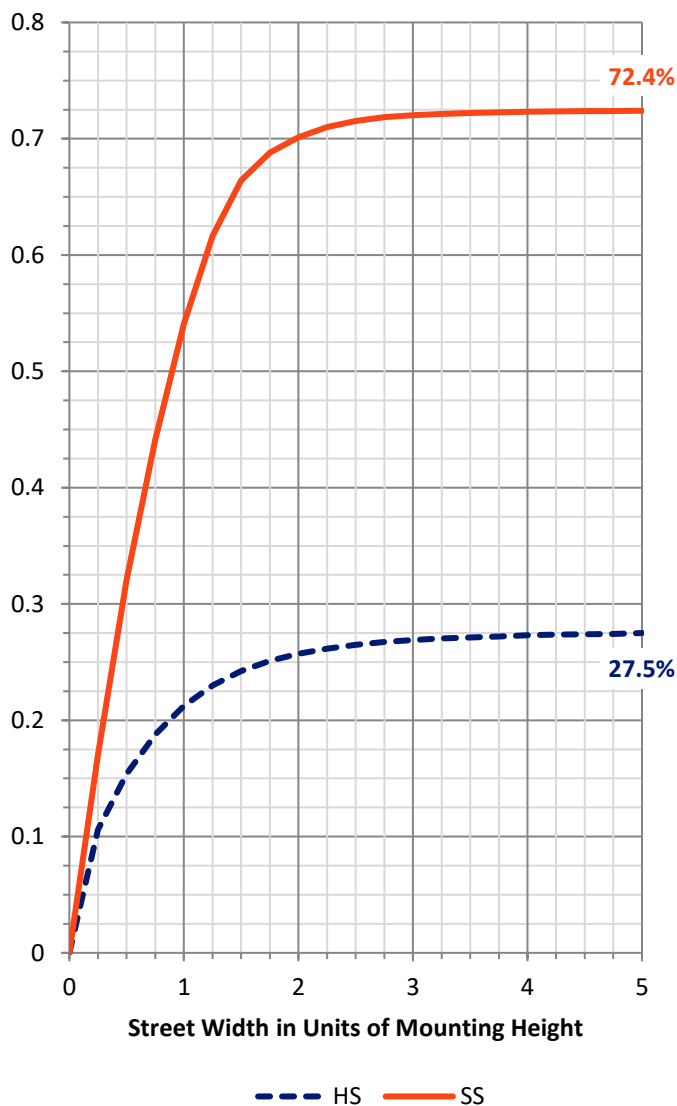
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4430.7	0.0	4430.7
	% Fixture	27.7	0.0	27.7
<b>Street Side</b>	Lumens	11584.5	0.0	11584.5
	% Fixture	72.3	0.0	72.3
<b>Total</b>	Lumens	16015.2	0.0	16015.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	536.8	3.4
10°-20°	1243.0	7.8
20°-30°	1746.4	10.9
30°-40°	2441.5	15.2
40°-50°	3305.3	20.6
50°-60°	4026.0	25.1
60°-70°	2096.9	13.1
70°-80°	537.3	3.4
80°-90°	82.0	0.5
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°	16015.2	100.0
0°-180°	16015.2	100.0

**Coefficient of Utilization**

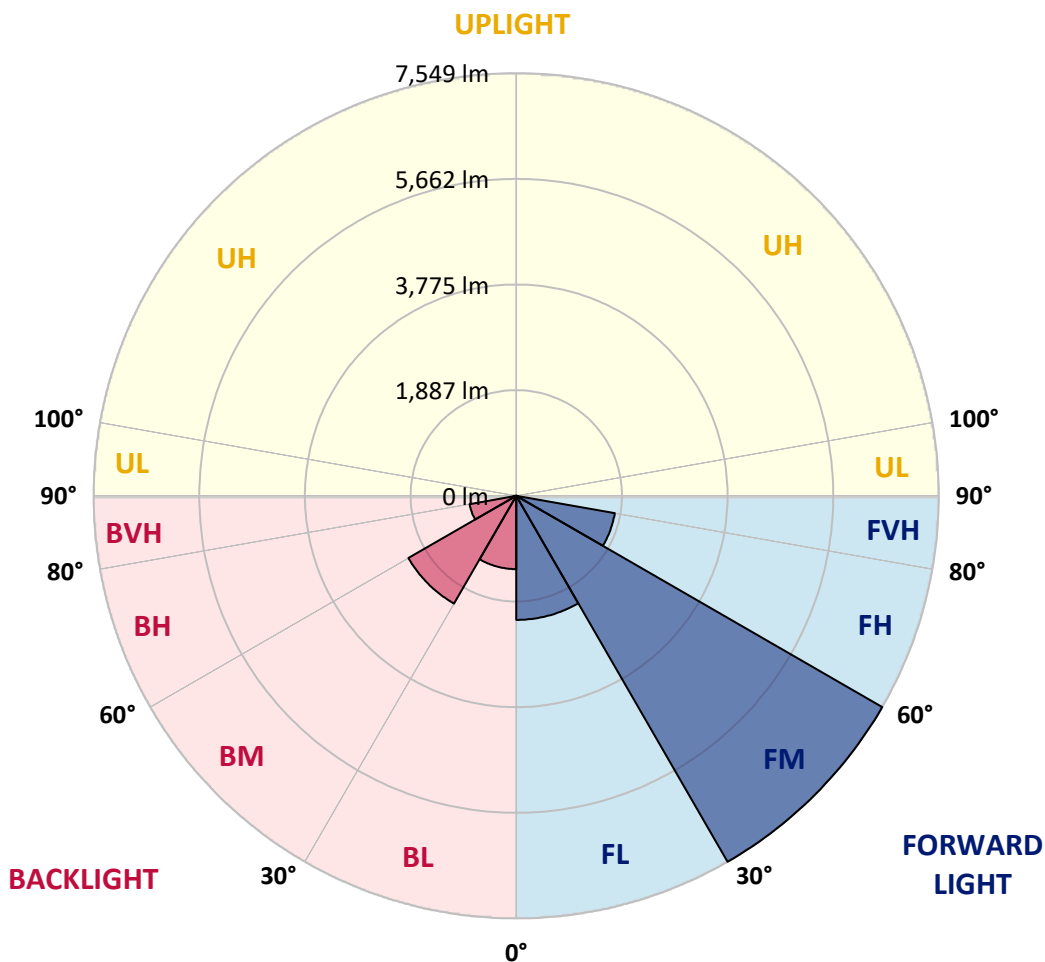


REPORT NUMBER: P652334  
 CATALOG NUMBER: GALN-SA4B-840-U-SL3-GRSWH

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2216.7	13.8			
FM (30°-60°)	7549.0	47.1			
FH (60°-80°)	1787.7	11.2			G1/1800
FVH (80°-90°)	31.0	0.2			G1/100
BL (0°-30°)	1309.5	8.2	B3/2500		
BM (30°-60°)	2223.7	13.9	B2/2500		
BH (60°-80°)	846.5	5.3	B2/1000		G2/1000
BVH (80°-90°)	51.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**  
 Type II Short





REPORT NUMBER: P652334

CATALOG NUMBER: GALN-SA4B-840-U-SL3-GRSWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6224.9	6224.9	6224.9	6224.9	6224.9	6224.9	6224.9	6224.9	6224.9	6224.9	6224.9
2.5°	6401.9	6377.2	6381.3	6414.3	6373.1	6356.6	6356.6	6276.4	6282.5	6226.9	6212.6
5°	6253.8	6196.1	6235.2	6284.6	6292.9	6309.4	6336.1	6315.5	6257.9	6198.2	6101.4
7.5°	5866.7	5918.2	5932.6	5967.6	6041.7	6109.6	6194.0	6136.4	6134.3	6074.6	6017.0
10°	5527.1	5496.2	5574.4	5625.9	5749.4	5862.6	5992.3	5986.2	6017.0	5949.1	5850.2
12.5°	5189.5	5164.7	5201.8	5319.2	5492.1	5656.7	5811.1	5753.5	5918.2	5905.8	5693.8
15°	4831.3	4849.8	4903.4	5012.4	5238.9	5436.5	5632.1	5634.1	5780.3	5829.6	5545.6
17.5°	4580.2	4559.6	4627.5	4790.2	4991.8	5228.6	5450.9	5496.2	5720.6	5749.4	5500.3
20°	4392.9	4421.6	4510.2	4592.5	4825.2	5111.3	5362.4	5378.9	5708.2	5786.4	5428.2
22.5°	4347.5	4331.1	4359.9	4493.7	4685.1	4996.0	5315.0	5376.8	5706.2	5774.1	5292.4
25°	4300.2	4353.8	4351.7	4485.5	4625.4	4903.4	5354.1	5422.1	5815.3	5837.9	5310.9
27.5°	4407.3	4401.0	4458.7	4469.0	4641.9	4928.1	5436.5	5487.9	5996.4	5977.9	5325.4
30°	4514.3	4483.5	4518.4	4639.9	4720.1	5070.1	5663.0	5658.8	6231.1	6218.8	5370.6
32.5°	4646.0	4631.6	4654.3	4761.3	4897.1	5259.4	5854.4	5975.8	6469.9	6548.1	5527.1
35°	4670.7	4730.5	4783.9	4928.1	5121.5	5566.2	6214.7	6315.5	6745.7	6990.6	5825.5
37.5°	4827.2	4849.8	4975.4	5230.7	5407.7	5975.8	6443.2	6506.9	6996.9	7274.7	6140.5
40°	4993.9	5020.7	5210.1	5477.7	5720.6	6243.4	6657.2	6677.8	7077.1	7493.0	6346.4
42.5°	5220.3	5245.1	5432.4	5767.9	6093.1	6471.9	6846.6	6869.2	7071.0	7744.1	6673.7
45°	5455.1	5514.7	5734.9	6115.8	6408.1	6739.5	6889.8	6982.4	7128.6	7968.5	6939.2
47.5°	5784.4	5840.0	6021.1	6393.7	6735.4	6974.2	7089.5	7180.0	7266.5	8164.0	7110.1
50°	6134.3	6144.6	6364.9	6702.5	6953.6	7239.7	7462.1	7493.0	7447.6	8390.5	7400.3
52.5°	6391.7	6424.6	6595.5	6924.8	7299.5	7651.4	7956.1	7989.1	7900.5	8474.8	7499.1
55°	5965.5	5947.0	6224.9	6663.4	7532.1	8264.9	8707.5	8732.2	8229.9	8736.3	7822.3
57.5°	4611.0	4699.6	4936.2	5465.3	6692.2	8536.6	9287.9	9199.4	8625.1	8868.0	8028.2
60°	3351.2	3330.7	3489.1	3843.2	5043.3	7357.1	8781.6	8872.1	8301.9	7993.2	6620.2
62.5°	2729.5	2700.8	2713.1	2725.4	3254.5	4882.8	6500.8	6498.7	6393.7	5745.3	4464.9
65°	2182.0	2249.9	2256.2	2348.7	2416.7	2916.9	3767.1	3968.8	3456.3	2834.6	2056.4
67.5°	1644.7	1620.0	1702.4	2031.8	2159.4	2105.9	2056.4	2079.1	1478.0	1066.3	1004.6
70°	969.6	959.2	1058.1	1416.2	1778.5	1673.6	1550.0	1552.1	1014.8	745.2	829.6
72.5°	531.1	529.1	549.6	718.4	1010.7	1049.8	930.5	959.2	605.2	603.2	648.4
75°	296.5	290.2	284.1	317.0	364.3	384.9	393.2	397.3	415.8	465.2	483.7
77.5°	109.1	105.0	105.0	121.4	154.4	193.5	245.0	249.1	294.3	337.6	356.1
80°	37.1	41.2	55.6	76.2	102.9	137.9	166.8	170.9	207.9	236.7	242.9
82.5°	22.6	24.7	37.1	53.5	74.1	96.7	123.5	125.6	154.4	172.9	181.2
85°	10.3	12.4	20.6	33.0	47.3	63.8	65.9	65.9	63.8	65.9	61.7
87.5°	0.0	0.0	4.1	4.1	4.1	6.1	8.2	6.1	10.3	12.4	12.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P652334

CATALOG NUMBER: GALN-SA4B-840-U-SL3-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6224.9	6224.9	6224.9	6224.9	6224.9	6224.9	6224.9	6224.9	6224.9	6224.9	6224.9
2.5°	6169.3	6146.7	6076.7	6014.9	5996.4	5914.1	5792.6	5807.0	5718.5	5759.7	5716.4
5°	6085.0	6008.8	5829.6	5753.5	5553.9	5463.3	5401.5	5247.1	5175.1	5160.6	5098.9
7.5°	5868.8	5821.4	5597.1	5391.2	5179.2	4998.1	4765.4	4606.9	4493.7	4462.9	4372.3
10°	5697.9	5593.0	5282.2	4969.2	4666.6	4351.7	4049.1	3812.3	3697.0	3563.2	3518.0
12.5°	5529.2	5370.6	4950.7	4549.3	4158.2	3760.9	3394.4	3106.3	2855.1	2795.5	2774.9
15°	5424.1	5148.3	4654.3	4170.5	3614.7	3096.0	2729.5	2540.2	2385.8	2322.0	2367.2
17.5°	5286.3	4965.1	4370.2	3725.9	3114.5	2637.0	2330.2	2212.9	2157.3	2163.5	2145.0
20°	5113.3	4792.2	3997.6	3322.5	2667.8	2287.0	2112.0	2068.8	2077.0	2091.4	2085.3
22.5°	4989.8	4582.2	3728.0	2910.7	2305.5	2093.5	2021.4	1990.6	2017.3	2029.7	2019.4
25°	4895.1	4403.1	3400.7	2546.4	2095.5	1984.4	1951.5	1949.4	1990.6	2007.0	1996.8
27.5°	4808.7	4236.4	3075.4	2268.4	1955.6	1900.0	1889.7	1914.4	1941.2	1957.6	1972.1
30°	4757.2	4108.8	2770.8	2035.9	1885.6	1858.9	1840.3	1863.0	1877.4	1893.8	1885.6
32.5°	4806.6	4018.2	2476.4	1904.1	1827.9	1801.2	1825.9	1811.5	1836.2	1850.6	1827.9
35°	4961.0	3937.9	2266.4	1834.1	1762.1	1772.4	1776.5	1770.3	1780.6	1768.3	1795.0
37.5°	5113.3	3909.1	2072.9	1774.4	1731.2	1731.2	1727.1	1714.7	1735.3	1731.2	1743.6
40°	5306.8	3927.6	1908.2	1710.6	1702.4	1698.2	1681.8	1679.7	1671.5	1673.6	1677.7
42.5°	5475.6	3968.8	1813.5	1669.5	1675.6	1683.9	1653.0	1628.3	1638.6	1618.0	1618.0
45°	5654.7	4005.9	1729.2	1640.6	1634.5	1632.4	1607.7	1593.3	1585.0	1587.1	1605.6
47.5°	5936.7	4059.3	1665.3	1601.5	1605.6	1574.8	1568.5	1550.0	1558.3	1570.7	1572.7
50°	6136.4	4172.6	1615.9	1556.2	1570.7	1550.0	1513.0	1504.8	1504.8	1525.3	1521.2
52.5°	6276.4	4331.1	1568.5	1506.8	1513.0	1496.6	1484.2	1465.7	1453.3	1482.1	1496.6
55°	6704.5	4594.6	1556.2	1465.7	1463.6	1447.1	1424.5	1406.0	1399.8	1403.9	1432.7
57.5°	6663.4	4512.2	1517.1	1393.6	1389.5	1366.9	1344.2	1338.0	1335.9	1340.0	1348.3
60°	5409.7	3332.7	1354.5	1311.3	1305.1	1300.9	1278.3	1253.6	1241.3	1253.6	1243.3
62.5°	3579.7	2231.4	1194.0	1212.5	1216.6	1206.2	1169.2	1144.5	1148.6	1163.0	1140.4
65°	1757.9	1311.3	1082.8	1132.2	1136.3	1107.5	1072.4	1043.7	1029.2	1041.6	1031.3
67.5°	1004.6	1002.5	992.2	1043.7	1041.6	1012.8	957.2	932.5	907.8	911.9	905.8
70°	852.2	868.7	889.3	920.1	918.1	885.2	819.3	800.7	765.7	761.6	751.3
72.5°	671.0	699.9	745.2	767.8	749.3	708.1	664.9	634.0	603.2	584.6	590.8
75°	498.1	539.3	564.1	578.4	549.6	527.0	492.0	454.9	417.9	401.4	395.3
77.5°	362.3	374.7	397.3	407.5	389.0	366.4	345.8	308.8	273.7	251.1	245.0
80°	253.2	261.5	277.9	277.9	277.9	267.6	240.9	203.8	181.2	160.5	156.4
82.5°	177.0	185.3	201.8	193.5	191.4	179.0	162.6	133.8	109.1	94.7	90.6
85°	61.7	68.0	82.3	98.8	105.0	102.9	92.6	74.1	57.6	47.3	43.2
87.5°	14.4	14.4	16.5	14.4	14.4	16.5	14.4	14.4	14.4	10.3	8.2
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)