

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: P647343

Luminaire Tested: **GALN-SA3D-835-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647343  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3D-835-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10666.8 lumens  
Efficiency: N/A  
Efficacy: 58.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

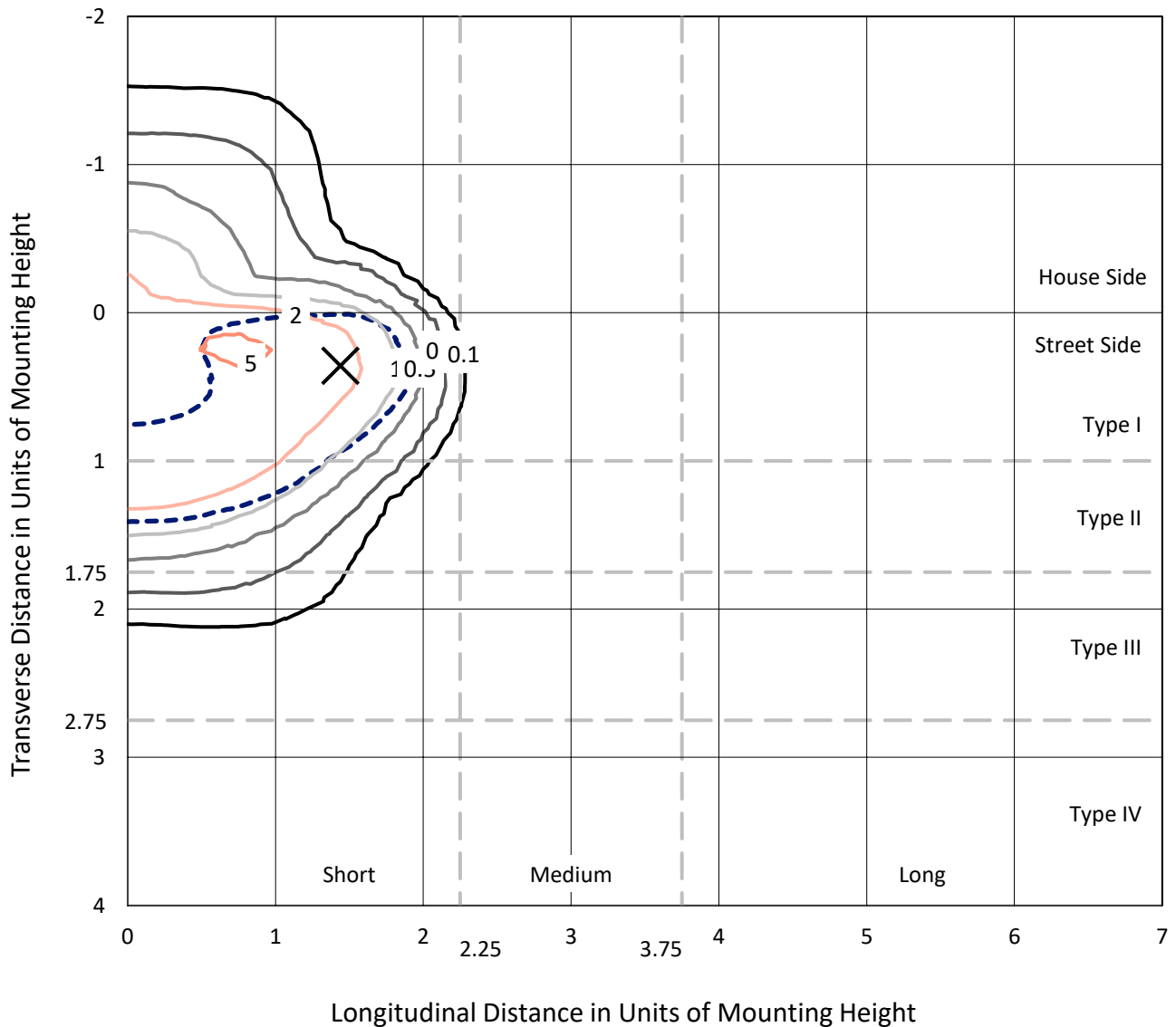
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P647343  
 CATALOG NUMBER: GALN-SA3D-835-U-T2-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

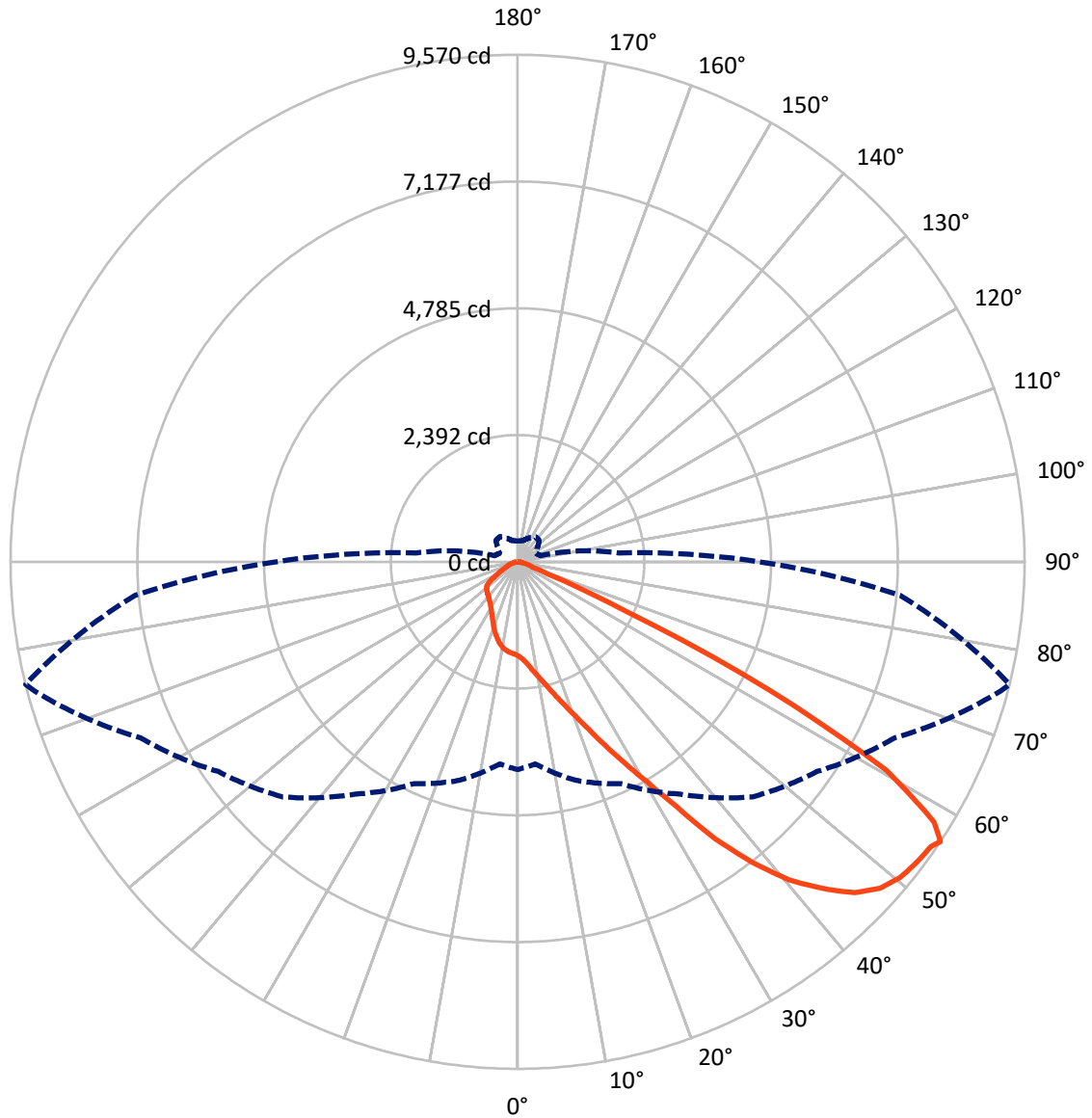
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc  
 Type II - Short - N/A

REPORT NUMBER: P647343  
CATALOG NUMBER: GALN-SA3D-835-U-T2-GRSBK

### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

REPORT NUMBER: P647343  
 CATALOG NUMBER: GALN-SA3D-835-U-T2-GRSBK

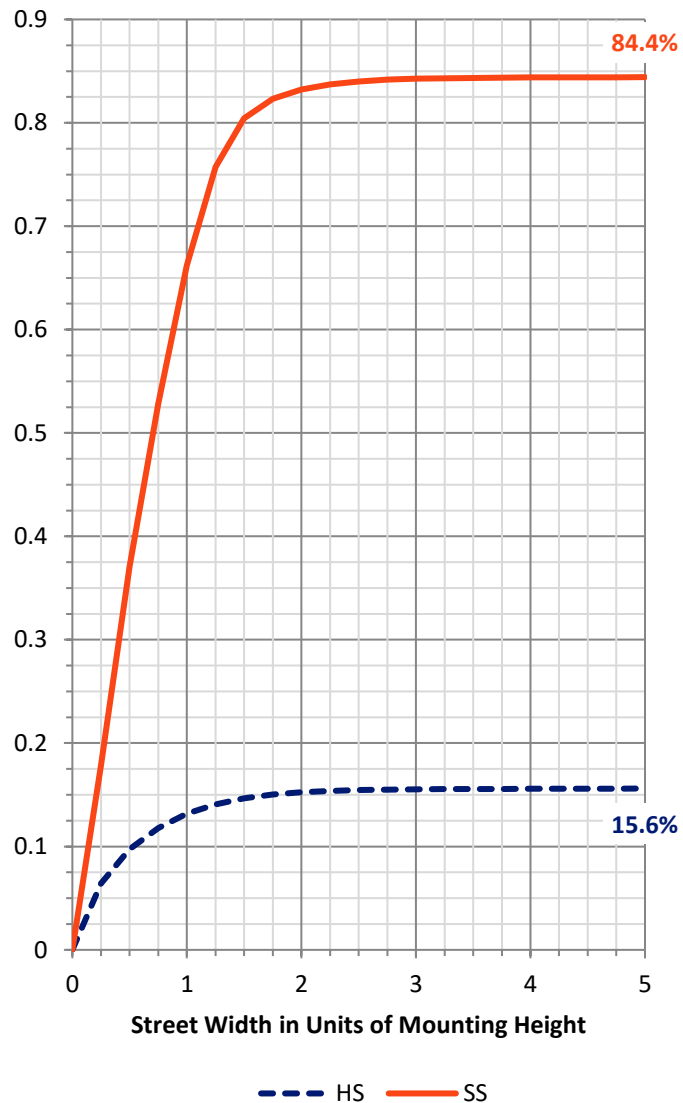
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1675.7	0.0	1675.7
	% Fixture	15.7	0.0	15.7
<b>Street Side</b>	Lumens	8991.1	0.0	8991.1
	% Fixture	84.3	0.0	84.3
<b>Total</b>	Lumens	10666.8	0.0	10666.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	178.9	1.7
10°-20°	574.6	5.4
20°-30°	1041.9	9.8
30°-40°	1796.8	16.8
40°-50°	2919.0	27.4
50°-60°	3076.7	28.8
60°-70°	940.1	8.8
70°-80°	120.5	1.1
80°-90°	18.3	0.2
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°	10666.8	100.0
0°-180°	10666.8	100.0

**Coefficient of Utilization**

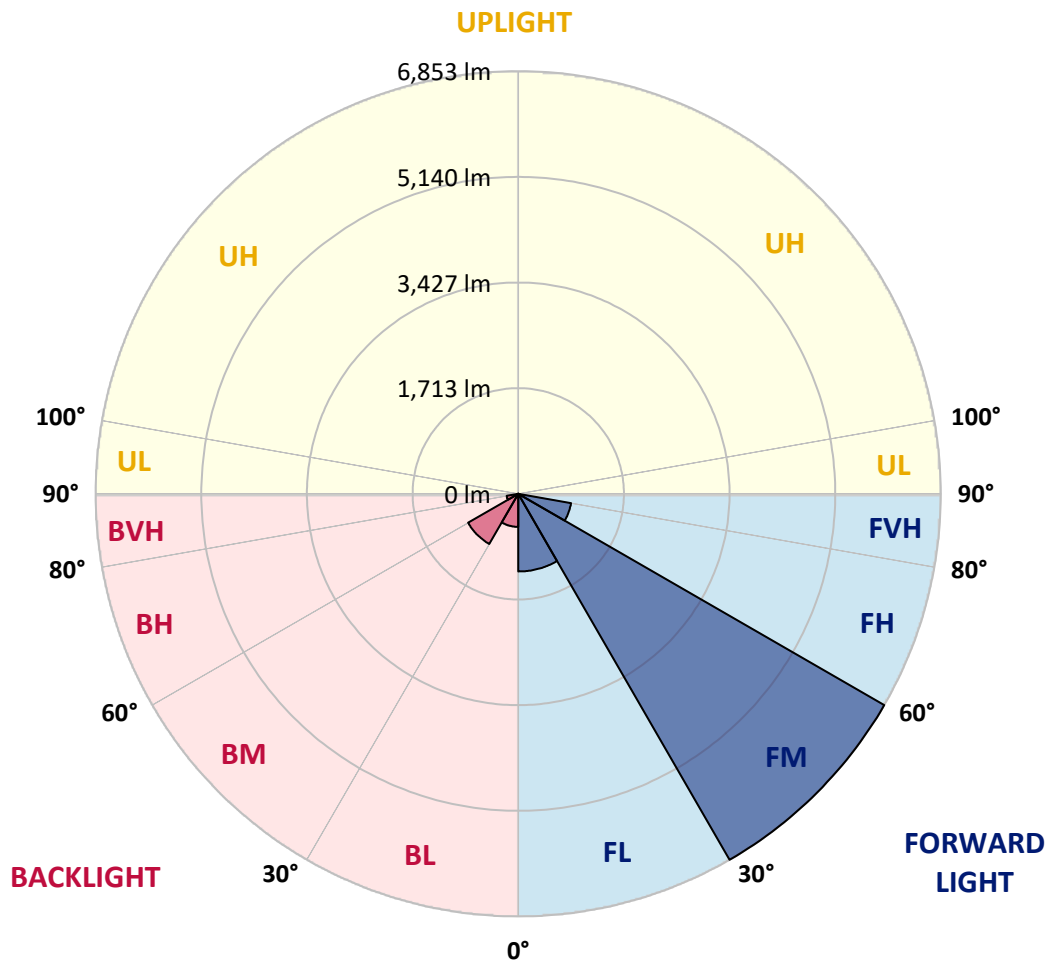


REPORT NUMBER: P647343  
 CATALOG NUMBER: GALN-SA3D-835-U-T2-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1259.3	11.8			
FM (30°-60°)	6853.4	64.2			
FH (60°-80°)	869.4	8.2			G1/1800
FVH (80°-90°)	9.0	0.1			G0/10
BL (0°-30°)	536.1	5.0	B2/1000		
BM (30°-60°)	939.1	8.8	B1/1000		
BH (60°-80°)	191.2	1.8	B1/500		G1/500
BVH (80°-90°)	9.3	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**  
 Type II Short





REPORT NUMBER: P647343

CATALOG NUMBER: GALN-SA3D-835-U-T2-GRSBK

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1775.5	1775.5	1775.5	1775.5	1775.5	1775.5	1775.5	1775.5	1775.5	1775.5	1775.5
2.5°	2044.9	1997.7	1999.6	1995.7	1989.8	1968.2	1903.3	1893.5	1850.2	1838.4	1799.1
5°	2290.7	2249.4	2273.0	2237.6	2204.1	2184.5	2078.3	2029.1	1960.3	1934.8	1879.7
7.5°	2444.1	2424.3	2416.5	2418.5	2387.0	2337.9	2290.7	2182.5	2090.1	2070.4	1954.4
10°	2518.8	2506.9	2518.8	2512.9	2526.6	2532.5	2449.9	2385.0	2249.4	2216.0	2035.0
12.5°	2536.5	2560.0	2569.9	2595.4	2628.8	2685.8	2680.0	2591.5	2410.6	2388.9	2158.9
15°	2579.7	2599.3	2589.5	2630.8	2693.8	2790.1	2841.2	2827.4	2632.8	2593.5	2302.5
17.5°	2619.1	2583.7	2617.0	2699.6	2762.6	2910.0	3033.9	3090.9	2874.6	2829.4	2434.2
20°	2672.1	2662.3	2656.4	2697.7	2809.7	3006.3	3252.1	3356.3	3145.9	3098.8	2623.0
22.5°	2833.4	2835.3	2831.4	2770.4	2851.1	3073.2	3442.9	3700.5	3470.4	3431.1	2837.3
25°	3045.7	3020.1	3000.5	2951.3	2941.5	3134.2	3635.5	4121.2	3859.7	3832.2	3069.3
27.5°	3269.8	3269.8	3210.8	3165.7	3102.7	3285.5	3812.5	4530.2	4329.7	4292.2	3271.8
30°	3513.6	3527.4	3519.6	3423.2	3383.9	3450.8	3993.4	5053.2	4868.4	4821.2	3606.0
32.5°	3873.5	3844.0	3877.4	3796.8	3680.8	3739.8	4278.5	5521.2	5568.4	5501.5	4044.5
35°	4349.3	4331.6	4309.9	4178.2	4040.6	4087.8	4681.6	6097.3	6447.3	6413.9	4486.9
37.5°	4776.0	4766.1	4748.4	4658.0	4498.7	4555.7	5139.7	6697.0	7304.5	7194.4	5112.2
40°	5224.3	5277.3	5220.3	5139.7	4994.2	5120.0	5678.5	7052.9	8026.1	7892.5	5590.0
42.5°	5831.9	5790.5	5816.1	5668.6	5590.0	5727.6	6219.2	7408.7	8586.5	8427.3	6097.3
45°	6478.7	6480.7	6411.9	6364.7	6160.2	6309.6	6551.5	7605.4	9032.8	8909.0	6480.7
47.5°	6893.6	6891.7	6966.4	7041.0	6830.7	6683.2	6777.6	7792.2	9262.9	9205.9	6620.3
50°	6828.7	6848.4	6944.7	7224.0	7334.0	7135.5	6989.9	7737.1	9367.1	9361.2	6740.2
52.5°	5940.0	6004.9	6166.1	6569.2	7123.7	7369.4	7212.1	7839.4	9418.2	9428.1	6919.1
55°	4522.3	4557.7	4864.5	5354.1	5967.5	6809.0	7123.7	7920.0	9457.5	9475.2	7135.5
56°	3922.6	3828.2	4270.6	4618.7	5352.1	6272.3	6899.5	7857.1	9434.0	9569.7	7243.6
57.5°	2961.1	2898.2	3256.1	3690.6	4396.5	5367.8	6203.5	7560.2	9274.7	9272.8	7088.3
60°	1801.1	1738.2	2013.4	2269.1	2664.2	3305.2	4192.0	6020.6	7841.4	8006.5	5739.4
62.5°	1071.6	1110.9	1382.2	1537.6	1665.4	1732.2	2168.8	3578.5	5232.2	5350.1	3560.8
65°	713.7	727.5	932.0	1187.6	1244.7	991.0	882.8	1449.1	2269.1	2196.3	1468.8
67.5°	440.4	471.9	625.2	892.7	989.0	723.6	418.8	540.7	625.2	625.2	424.7
70°	267.4	283.1	416.9	607.5	678.3	466.0	304.7	304.7	300.8	295.0	253.6
72.5°	127.8	137.7	212.3	312.7	318.5	245.8	235.9	257.6	251.7	249.7	210.4
75°	55.0	59.0	74.7	98.3	112.0	104.2	143.5	184.8	190.7	184.8	151.4
77.5°	17.7	19.7	27.6	35.4	37.3	45.3	60.9	76.7	88.5	82.6	74.7
80°	2.0	3.9	7.8	17.7	27.6	35.4	45.3	51.1	57.0	57.0	53.1
82.5°	2.0	2.0	7.8	15.7	25.5	33.4	43.2	49.2	57.0	59.0	55.0
85°	0.0	2.0	5.9	13.8	21.6	21.6	19.7	19.7	13.8	13.8	13.8
87.5°	0.0	0.0	2.0	2.0	2.0	3.9	3.9	3.9	3.9	3.9	3.9
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: P647343

CATALOG NUMBER: GALN-SA3D-835-U-T2-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1775.5	1775.5	1775.5	1775.5	1775.5	1775.5	1775.5	1775.5	1775.5	1775.5	1775.5
2.5°	1791.3	1787.3	1734.2	1700.8	1683.1	1647.7	1626.1	1610.3	1598.6	1584.8	1586.7
5°	1814.8	1801.1	1712.6	1651.7	1578.9	1539.5	1506.1	1478.6	1460.9	1457.0	1449.1
7.5°	1881.7	1809.0	1675.2	1565.1	1472.7	1433.4	1403.9	1386.2	1394.1	1376.4	1390.1
10°	1932.8	1824.6	1630.0	1470.7	1378.3	1348.8	1333.1	1346.8	1366.5	1358.7	1348.8
12.5°	1995.7	1840.4	1557.2	1380.3	1293.8	1272.1	1299.7	1325.2	1364.5	1380.3	1360.6
15°	2066.5	1858.1	1464.8	1276.1	1221.0	1238.7	1285.9	1331.1	1370.5	1390.1	1402.0
17.5°	2153.0	1852.2	1374.4	1193.5	1152.2	1203.3	1260.3	1301.7	1360.6	1390.1	1382.2
20°	2233.7	1832.5	1274.1	1110.9	1112.9	1160.1	1207.2	1274.1	1305.6	1344.9	1331.1
22.5°	2310.3	1797.1	1169.9	1053.9	1053.9	1126.7	1150.2	1193.5	1221.0	1240.7	1238.7
25°	2418.5	1730.3	1083.4	998.9	1022.4	1069.7	1089.3	1103.1	1091.3	1107.0	1109.0
27.5°	2495.1	1661.4	1012.6	949.7	992.9	1028.3	1022.4	1014.6	987.0	965.4	979.2
30°	2577.7	1580.9	951.7	916.3	939.8	971.3	947.7	924.1	880.9	845.5	847.4
32.5°	2695.7	1543.5	898.6	877.0	908.4	912.4	886.7	851.4	808.1	774.7	772.7
35°	2915.9	1519.9	853.3	851.4	857.3	859.3	833.7	790.4	772.7	745.2	755.0
37.5°	3136.1	1508.1	821.9	814.0	812.0	814.0	784.5	743.2	776.7	774.7	778.6
40°	3417.3	1561.2	776.7	766.8	768.8	768.8	731.4	719.7	778.6	784.5	786.5
42.5°	3702.4	1628.0	747.1	715.7	723.6	723.6	703.9	690.1	731.4	692.1	686.2
45°	3950.2	1726.4	715.7	664.6	684.3	694.1	688.2	664.6	639.0	572.1	572.1
47.5°	4030.8	1812.9	678.3	615.4	631.2	674.4	656.7	607.5	562.4	507.3	503.4
50°	4172.4	1907.2	648.9	558.4	591.9	645.0	627.3	578.1	527.0	487.7	489.6
52.5°	4317.9	2015.4	593.8	491.6	532.8	621.3	621.3	566.3	487.7	460.1	456.2
55°	4536.1	2011.4	495.5	403.1	475.8	585.9	595.8	507.3	436.5	414.9	414.9
56°	4567.6	1921.0	446.3	377.5	450.3	576.1	578.1	491.6	416.9	393.2	393.2
57.5°	4331.6	1734.2	391.3	346.1	418.8	558.4	560.4	477.8	401.1	367.7	363.8
60°	3332.8	1173.9	326.4	308.7	379.5	503.4	513.2	434.6	352.0	326.4	324.4
62.5°	1881.7	650.8	287.0	279.2	326.4	428.6	458.1	379.5	298.9	285.1	289.0
65°	859.3	357.8	241.9	226.1	263.5	330.3	369.7	312.7	245.8	230.0	230.0
67.5°	314.6	243.8	206.5	178.9	184.8	214.3	239.9	202.5	163.2	139.6	145.5
70°	224.2	204.5	180.9	155.3	143.5	139.6	137.7	114.0	80.6	63.0	66.9
72.5°	180.9	169.1	151.4	131.7	112.0	94.4	80.6	59.0	37.3	25.5	23.6
75°	129.7	123.9	110.1	94.4	78.6	66.9	55.0	37.3	19.7	9.9	9.9
77.5°	66.9	66.9	64.9	59.0	49.2	39.3	31.5	21.6	11.8	3.9	3.9
80°	51.1	55.0	57.0	51.1	45.3	35.4	25.5	15.7	7.8	2.0	2.0
82.5°	49.2	57.0	60.9	53.1	45.3	33.4	25.5	15.7	7.8	2.0	2.0
85°	11.8	11.8	17.7	19.7	25.5	27.6	21.6	13.8	5.9	2.0	2.0
87.5°	3.9	3.9	3.9	3.9	3.9	3.9	2.0	2.0	2.0	2.0	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)