

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: P648404

Luminaire Tested: **GALN-SA4B-835-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648404
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-835-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12691.6 lumens
Efficiency: N/A
Efficacy: 77.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

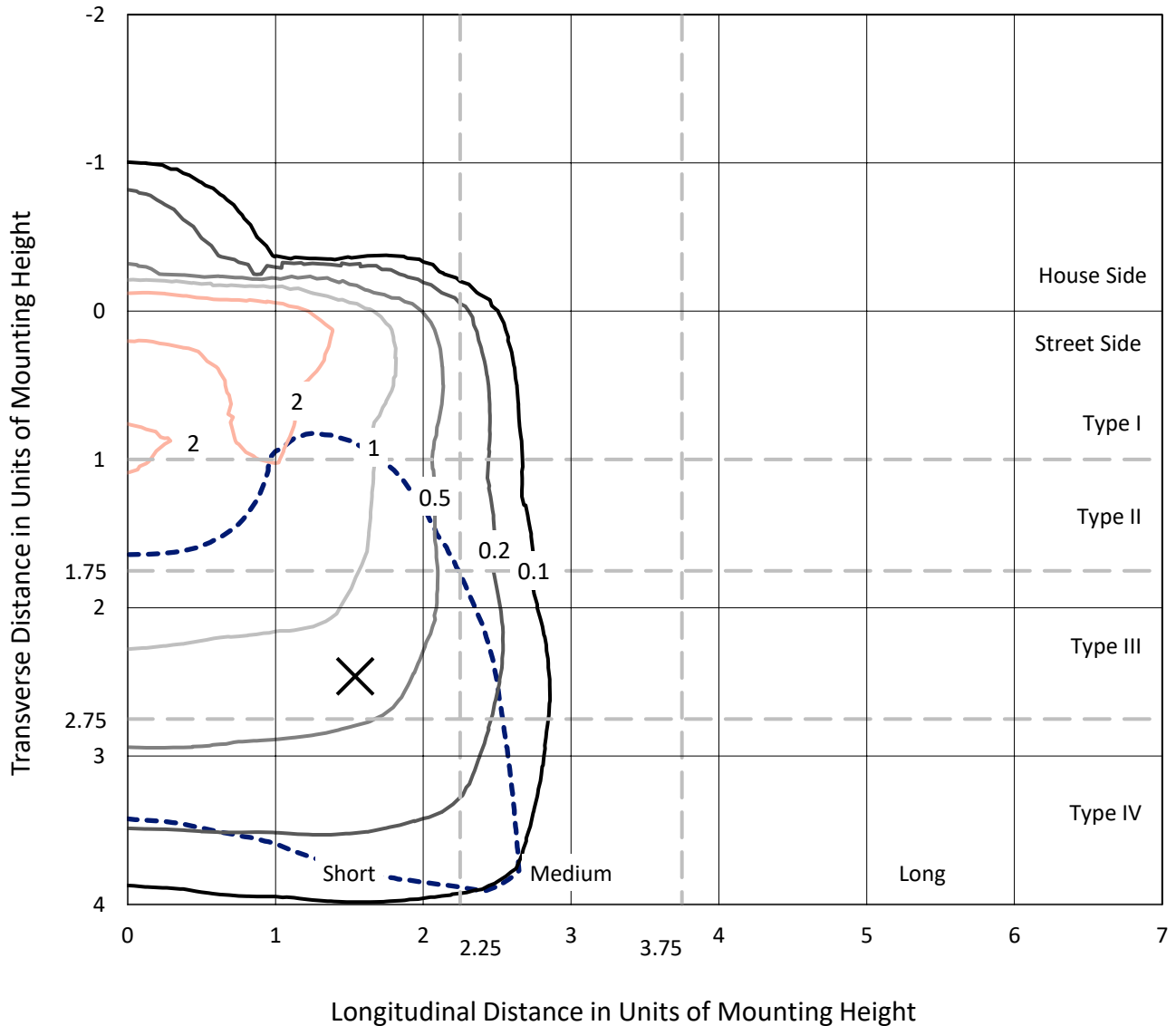
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P648404
 CATALOG NUMBER: GALN-SA4B-835-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

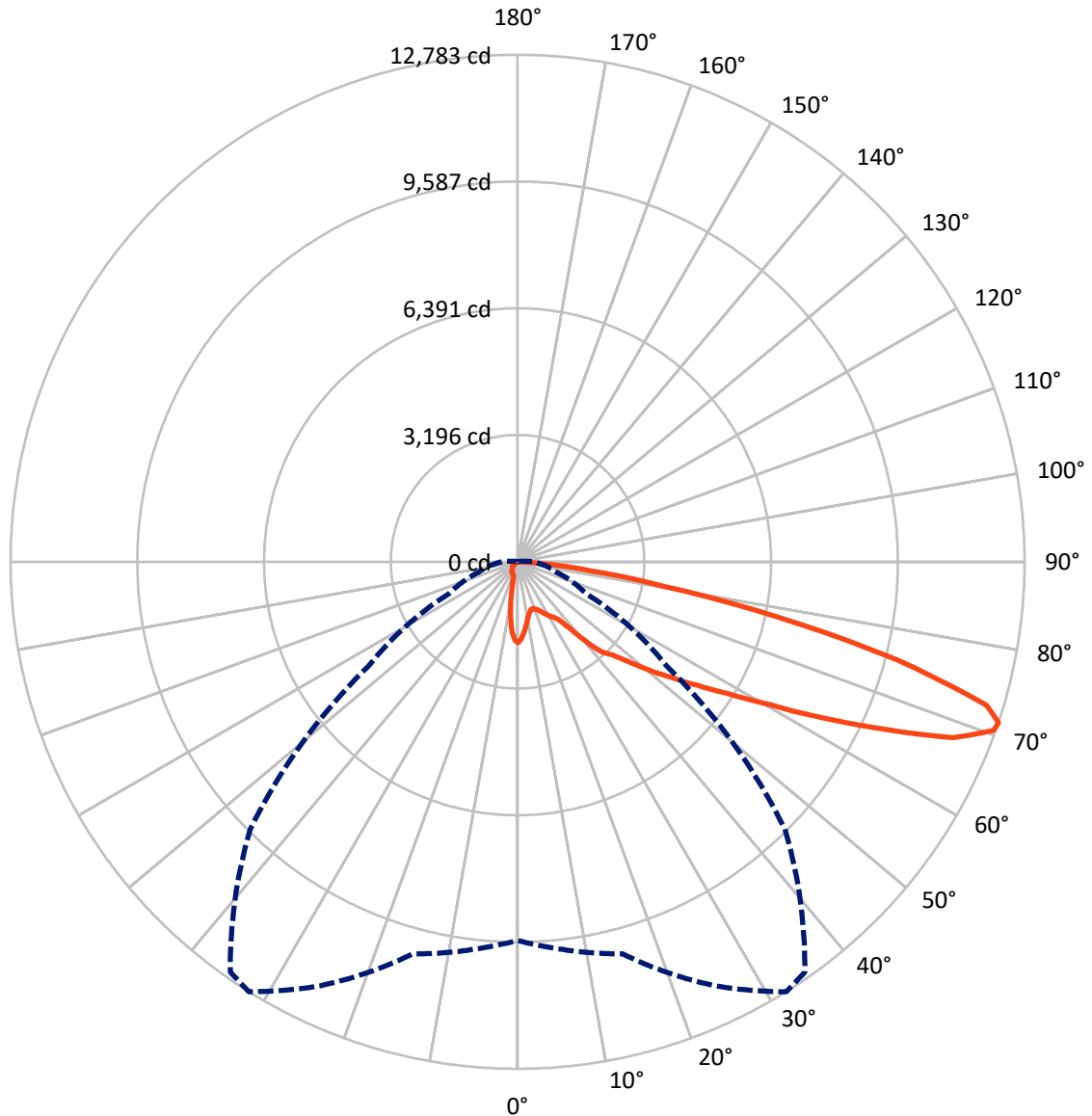
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type IV - Short - N/A

REPORT NUMBER: P648404
CATALOG NUMBER: GALN-SA4B-835-U-T4FT-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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 CATALOG NUMBER: GALN-SA4B-835-U-T4FT-HSS

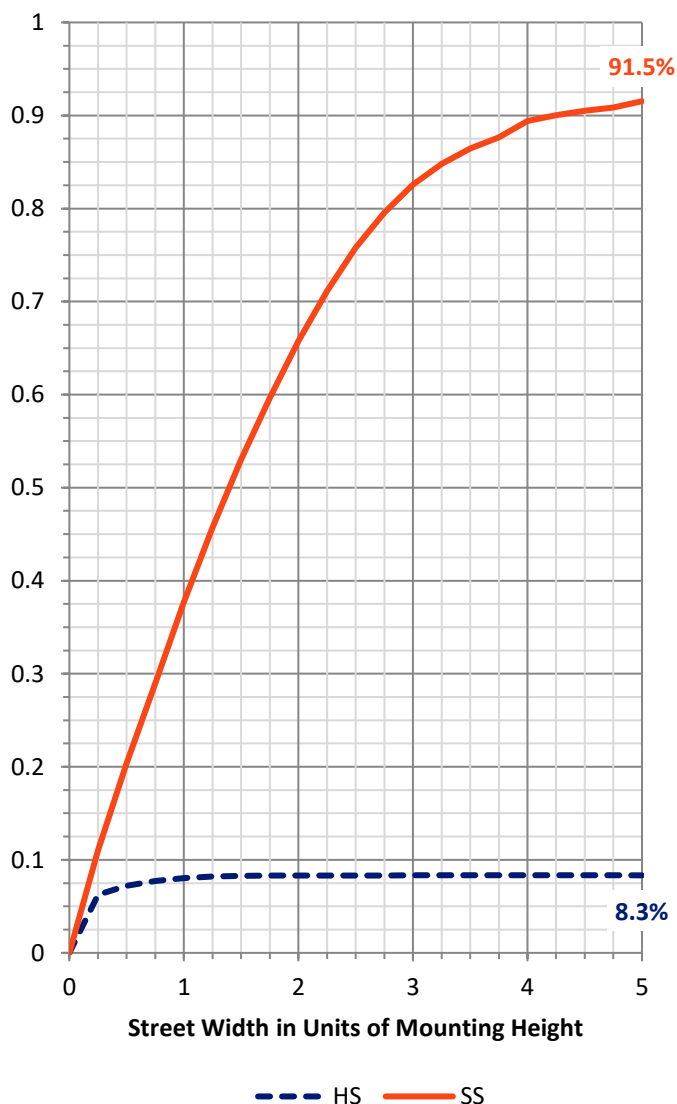
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1063.1	0.0	1063.1
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	11628.6	0.0	11628.6
	% Fixture	91.6	0.0	91.6
Total	Lumens	12691.6	0.0	12691.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.0	1.3
10°-20°	360.2	2.8
20°-30°	560.3	4.4
30°-40°	933.5	7.4
40°-50°	1736.5	13.7
50°-60°	2788.1	22.0
60°-70°	3750.1	29.5
70°-80°	2225.0	17.5
80°-90°	172.0	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°	12691.6	100.0
0°-180°	12691.6	100.0

Coefficient of Utilization

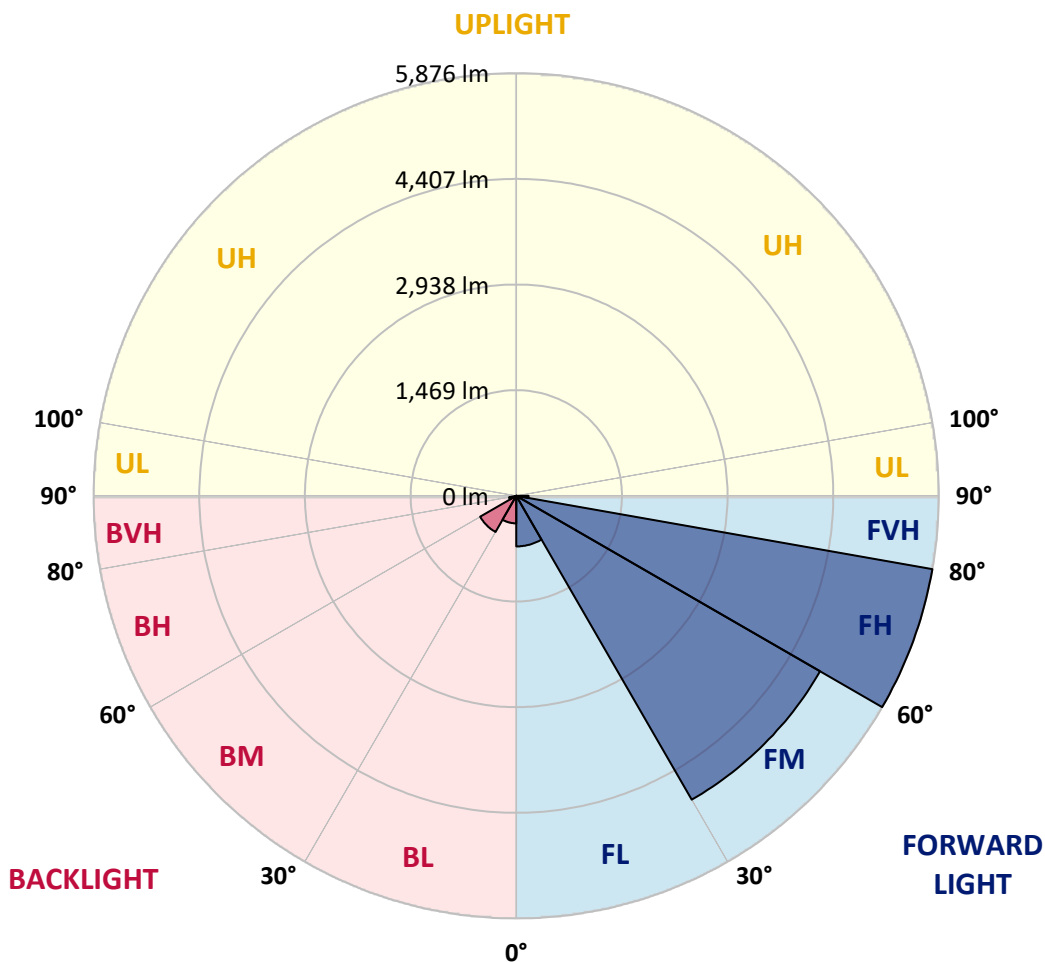


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	703.5	5.5			
FM (30°-60°)	4878.2	38.4			
FH (60°-80°)	5875.6	46.3			G3/7500
FVH (80°-90°)	171.3	1.3			G2/225
BL (0°-30°)	383.0	3.0	B1/500		
BM (30°-60°)	579.9	4.6	B1/1000		
BH (60°-80°)	99.4	0.8	B0/110		G0/110
BVH (80°-90°)	0.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3
 Type IV Short





REPORT NUMBER: P648404

CATALOG NUMBER: GALN-SA4B-835-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	2041.0	2041.0	2041.0	2041.0	2041.0	2041.0	2041.0	2041.0	2041.0	2041.0	2041.0
2.5°	1892.9	1912.4	1909.5	1916.3	1932.9	1939.7	1958.2	1978.6	2006.9	2026.4	2039.1
5°	1695.2	1709.8	1711.7	1745.9	1762.4	1780.9	1835.4	1894.9	1961.1	2013.7	2048.8
7.5°	1483.8	1491.5	1507.1	1552.0	1593.9	1612.4	1695.2	1798.4	1902.7	2001.0	2064.4
10°	1309.3	1318.1	1346.4	1394.1	1433.1	1457.5	1572.4	1702.0	1848.1	1994.2	2086.8
12.5°	1210.0	1214.9	1225.6	1268.5	1318.1	1344.4	1468.2	1616.3	1804.3	1997.2	2124.8
15°	1203.2	1201.2	1188.6	1206.1	1250.9	1278.2	1399.0	1557.8	1765.3	2006.9	2169.6
17.5°	1239.3	1234.3	1204.2	1204.2	1241.1	1263.6	1369.8	1526.6	1745.9	2029.3	2233.0
20°	1294.8	1286.9	1237.3	1233.4	1269.4	1292.8	1387.3	1528.6	1749.7	2071.2	2317.7
22.5°	1364.9	1356.2	1281.1	1283.0	1322.0	1345.4	1438.0	1563.7	1774.0	2122.9	2408.3
25°	1456.5	1446.7	1358.1	1354.2	1395.1	1415.6	1513.0	1626.0	1808.2	2187.2	2527.1
27.5°	1578.3	1557.8	1451.6	1445.7	1489.6	1515.9	1603.6	1709.8	1868.6	2275.8	2686.9
30°	1678.6	1656.2	1554.9	1539.3	1586.0	1606.5	1697.1	1822.8	1987.4	2430.7	2908.1
32.5°	1810.1	1777.0	1658.2	1617.2	1666.9	1693.2	1832.5	2033.2	2163.7	2594.4	3171.2
35°	2106.3	2085.8	1940.7	1797.5	1794.6	1827.7	2032.3	2245.6	2345.0	2849.7	3529.6
37.5°	2530.1	2515.5	2361.5	2169.6	2114.1	2098.5	2274.8	2479.4	2634.3	3200.4	3946.6
40°	3022.1	2988.0	2846.7	2684.0	2611.9	2566.1	2561.3	2827.3	3012.4	3676.7	4381.1
42.5°	3374.7	3312.4	3140.9	3129.3	3113.7	3065.9	2927.6	3335.7	3500.4	4189.2	4845.8
45°	3744.9	3650.4	3395.2	3351.3	3345.5	3342.6	3480.9	3937.9	4032.4	4744.5	5323.2
47.5°	4032.4	3957.4	3747.9	3728.4	3752.8	3819.0	4212.5	4576.9	4557.5	5239.4	5723.6
50°	4415.2	4358.7	4125.9	4162.9	4288.6	4396.7	5037.7	5273.5	4989.0	5629.1	6014.9
52.5°	4867.3	4763.0	4546.7	4647.1	4840.0	5020.2	5913.6	5883.4	5292.1	5922.4	6232.1
55°	5258.9	5184.9	5110.8	5215.1	5503.5	5728.5	6704.7	6340.3	5512.2	6158.1	6327.7
57.5°	5921.4	5903.8	5827.9	5934.0	6283.8	6517.6	7412.9	6694.9	5653.5	6280.8	6215.6
60°	6901.4	6873.2	6731.9	6867.4	7323.3	7690.5	8065.7	7013.5	5685.6	6233.1	5893.1
62.5°	8080.2	7983.9	7863.0	8062.7	8688.2	8849.9	8680.4	7202.5	5565.8	5853.2	5115.7
65°	9181.1	9081.8	9084.7	9505.5	10186.6	10296.7	9397.4	7174.2	5215.1	4901.3	3773.2
67.5°	10023.9	10007.3	10126.1	10947.4	11837.9	11761.9	10038.5	6751.4	4175.6	3176.9	2004.9
70°	10066.7	10098.9	10439.9	11826.2	12730.2	12609.5	9984.0	5487.8	2603.2	1461.3	790.1
71°	9548.5	9764.7	10236.2	11798.9	12782.9	12626.0	9524.1	4596.4	1909.5	1019.1	569.9
72.5°	8136.8	8250.8	9269.8	11104.3	12366.9	12031.7	8357.9	3221.8	1222.7	623.5	327.4
75°	4481.5	4762.0	6207.8	8711.6	9891.4	9597.2	5446.9	1530.5	609.9	341.0	135.4
77.5°	2133.6	2079.0	3028.9	5181.0	6706.6	6691.0	2744.4	680.0	355.6	230.9	68.2
80°	609.9	685.8	1159.3	2462.8	3723.5	3764.4	1054.2	328.3	246.5	180.2	35.1
82.5°	184.2	188.0	425.7	1089.2	1852.0	1745.9	395.6	167.6	177.3	143.2	20.4
85°	32.2	39.9	125.7	383.8	706.3	535.8	99.4	79.9	116.9	94.5	11.7
87.5°	2.0	2.9	41.9	43.8	62.3	36.0	17.5	11.7	25.3	25.3	6.8
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: P648404

CATALOG NUMBER: GALN-SA4B-835-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2041.0	2041.0	2041.0	2041.0	2041.0	2041.0	2041.0	2041.0	2041.0	2041.0	2041.0
2.5°	2047.9	2053.7	2049.8	2041.0	2026.4	2008.9	1985.5	1966.0	1949.4	1940.7	1951.4
5°	2060.5	2068.3	2048.8	2004.9	1938.7	1866.6	1784.8	1721.5	1671.8	1656.2	1650.3
7.5°	2080.0	2084.9	2032.3	1934.8	1794.6	1624.0	1475.0	1349.3	1251.9	1222.7	1179.8
10°	2105.3	2102.4	2003.0	1821.8	1575.3	1319.1	1088.2	916.7	787.1	740.4	736.5
12.5°	2144.2	2128.7	1966.0	1667.9	1314.3	979.1	693.7	542.6	460.8	433.5	427.7
15°	2193.0	2156.0	1907.5	1487.6	1006.4	632.3	427.7	381.9	371.2	369.3	367.3
17.5°	2250.5	2192.0	1830.6	1266.5	707.3	410.1	357.5	356.6	357.5	355.6	354.6
20°	2328.4	2230.0	1739.0	1004.4	467.6	345.9	341.0	341.0	341.9	341.0	341.0
22.5°	2411.2	2274.8	1626.0	766.7	352.7	328.3	327.4	329.3	331.2	330.3	330.3
25°	2513.5	2333.3	1477.0	525.1	315.6	313.7	314.7	318.6	322.4	323.5	322.4
27.5°	2661.6	2405.4	1317.2	361.4	289.3	291.3	301.1	310.8	316.6	317.6	317.6
30°	2828.2	2485.2	1108.6	293.2	267.9	267.9	279.6	298.1	310.8	312.7	313.7
32.5°	3042.5	2577.8	877.8	264.0	247.4	245.5	256.2	278.6	302.0	308.8	308.8
35°	3307.5	2686.9	652.7	245.5	232.9	227.9	233.8	252.4	282.5	302.0	304.0
37.5°	3618.3	2790.2	477.4	228.9	219.2	212.3	216.3	230.9	255.3	284.5	292.3
40°	3905.7	2881.8	356.6	215.3	205.5	200.7	203.6	210.5	230.9	258.2	263.0
42.5°	4219.4	2952.9	283.5	200.7	191.9	190.0	190.0	192.9	206.6	222.1	223.1
45°	4532.2	2978.2	237.7	183.1	177.3	179.2	178.3	176.3	182.2	180.2	180.2
47.5°	4755.2	2948.0	196.8	166.6	166.6	169.5	164.7	157.9	154.9	143.2	144.2
50°	4908.2	2837.9	161.7	147.1	154.9	158.8	149.1	138.4	127.6	114.9	112.0
52.5°	4971.5	2642.1	132.5	121.8	137.3	142.3	130.5	117.9	101.3	90.6	87.7
55°	4930.6	2400.5	110.1	99.4	116.0	121.8	110.1	95.4	77.0	65.3	63.3
57.5°	4750.4	2112.1	93.5	78.9	92.6	96.5	88.6	73.1	54.6	42.8	42.8
60°	4438.6	1814.1	76.0	62.3	69.1	75.0	67.3	52.6	37.0	26.3	24.4
62.5°	3806.3	1473.1	61.4	48.7	48.7	53.6	46.7	38.0	23.4	13.6	12.7
65°	2748.3	1010.3	48.7	36.0	35.1	35.1	29.2	25.3	13.6	5.9	3.9
67.5°	1493.5	569.9	39.0	27.2	24.4	23.4	18.5	14.6	5.9	0.9	0.0
70°	587.5	219.2	30.2	18.5	15.6	14.6	9.7	6.8	3.9	0.0	0.0
71°	398.5	151.0	26.3	15.6	12.7	10.7	7.8	5.9	2.9	0.0	0.0
72.5°	227.9	93.5	20.4	11.7	9.7	7.8	5.9	3.9	2.9	0.0	0.0
75°	99.4	47.8	12.7	8.8	6.8	4.9	3.9	2.9	0.9	0.0	0.0
77.5°	50.7	26.3	8.8	6.8	3.9	2.9	2.0	0.9	0.0	0.0	0.0
80°	28.3	13.6	5.9	3.9	2.9	2.0	0.9	0.9	0.0	0.0	0.0
82.5°	15.6	7.8	2.9	2.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	9.7	4.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.9	2.0	0.0	0.0	0.0	0.0	0.9	0.9	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)