

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: P940257

Luminaire Tested: **GALN-SB3B-727-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940257
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3B-727-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15681 lumens
Efficiency: N/A
Efficacy: 143.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 109.2
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

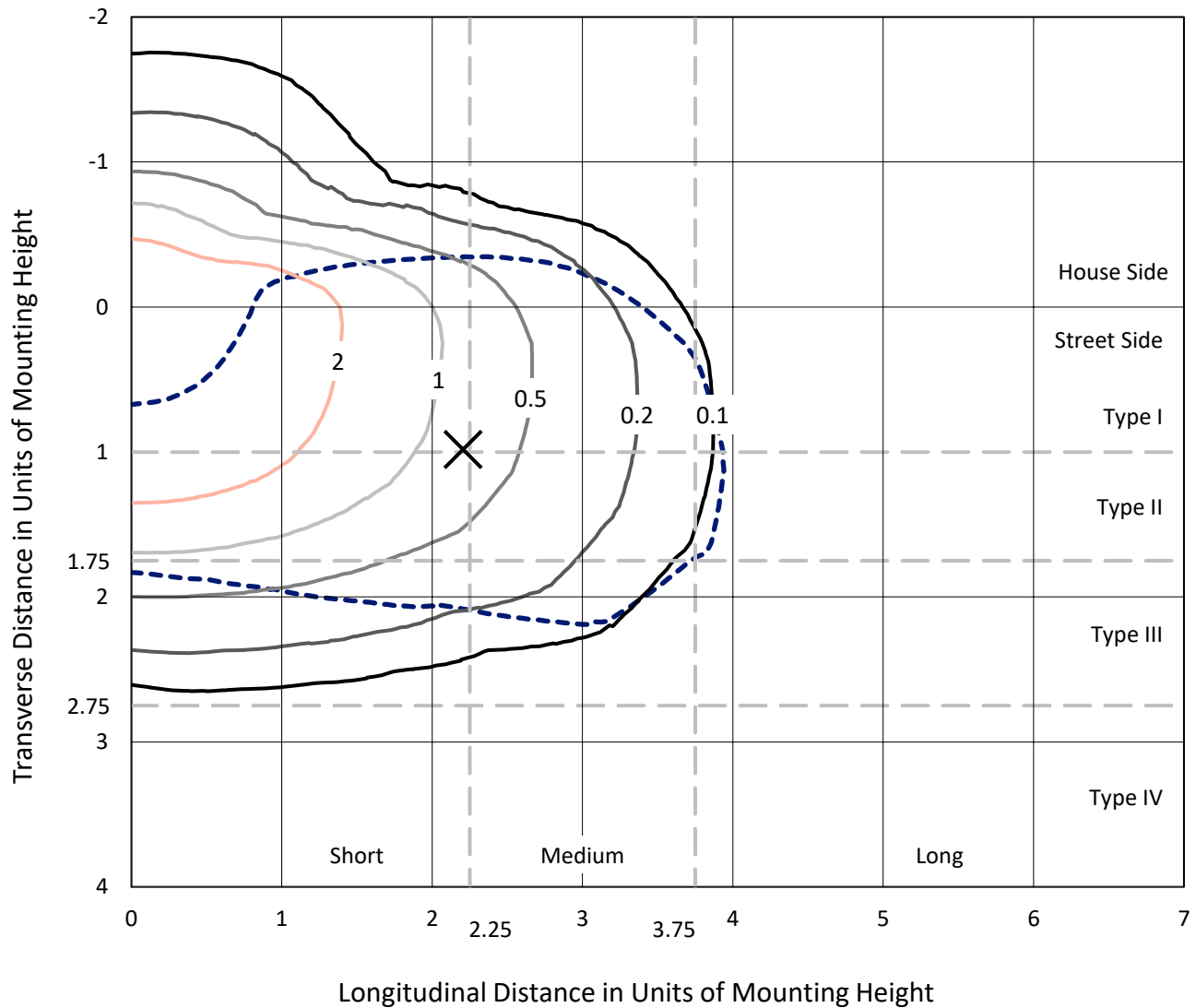


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd

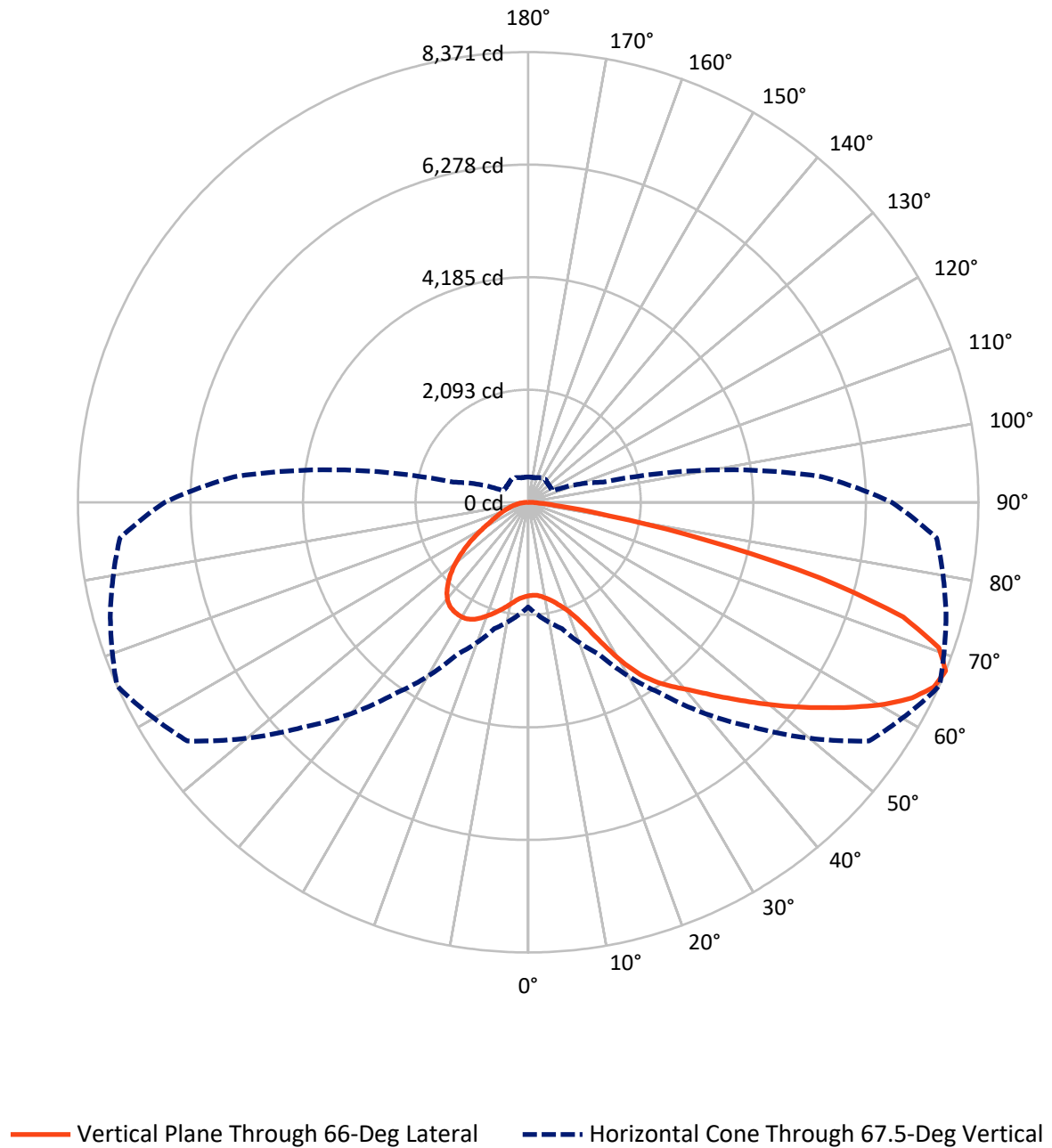


Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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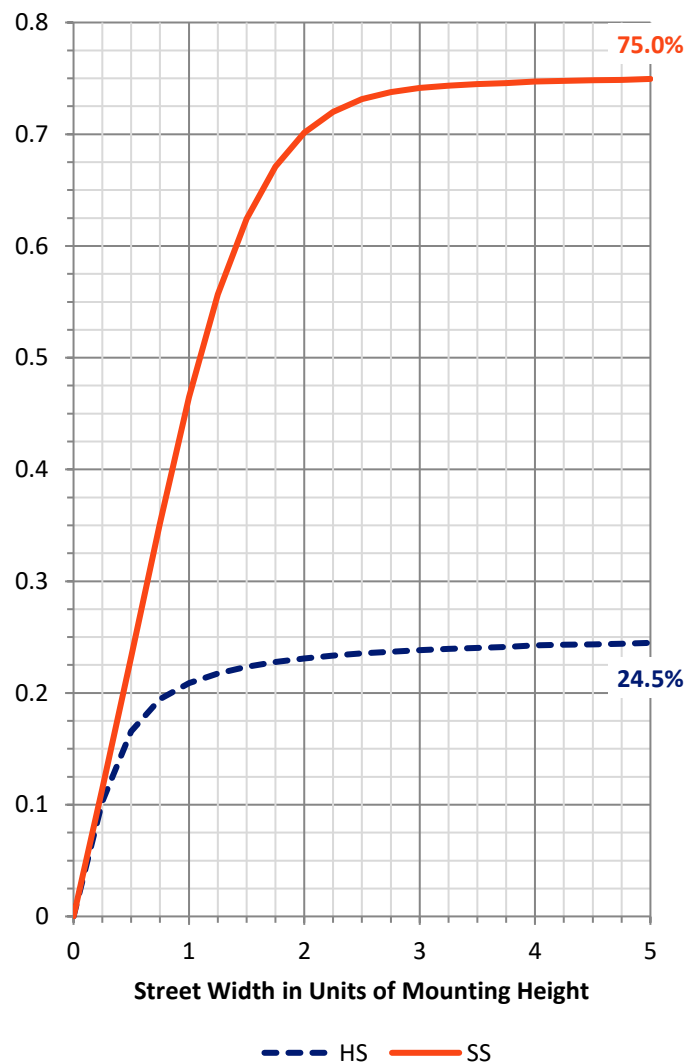
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3899.0	0.0	3899.0
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	11782.0	0.0	11782.0
	% Fixture	75.1	0.0	75.1
Total	Lumens	15681.0	0.0	15681.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.4	1.1
10°-20°	569.7	3.6
20°-30°	1098.1	7.0
30°-40°	1925.4	12.3
40°-50°	2862.4	18.3
50°-60°	3628.3	23.1
60°-70°	3550.2	22.6
70°-80°	1693.5	10.8
80°-90°	181.0	1.2
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°	15681.0	100.0
0°-180°	15681.0	100.0

Coefficient of Utilization



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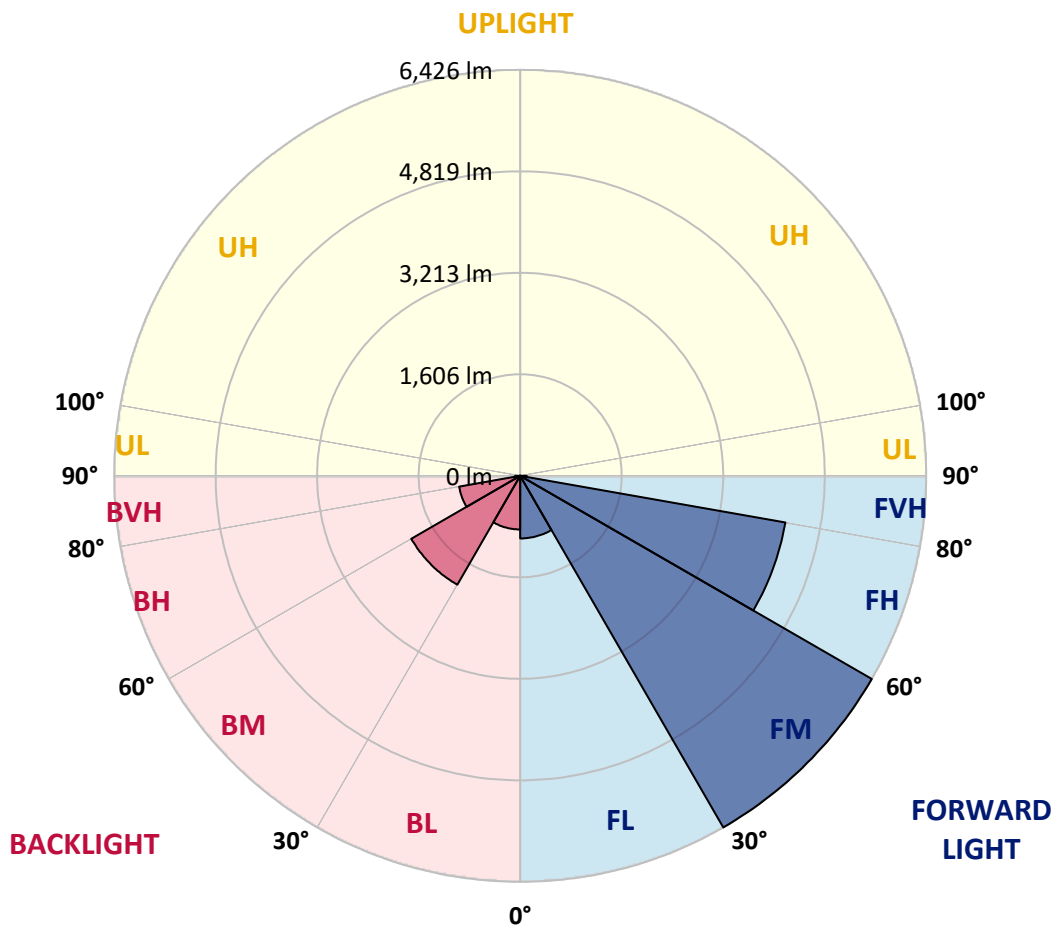
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	990.9	6.3			
FM	(30°-60°)	6425.9	41.0			
FH	(60°-80°)	4262.5	27.2			G2/5000
FVH	(80°-90°)	102.6	0.7			G2/225
BL	(0°-30°)	849.3	5.4	B2/1000		
BM	(30°-60°)	1990.1	12.7	B2/2500		
BH	(60°-80°)	981.2	6.3	B2/1000		G2/1000
BVH	(80°-90°)	78.4	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1739.2	1739.2	1739.2	1739.2	1739.2	1739.2	1739.2	1739.2	1739.2	1739.2	1739.2
2.5°	1721.1	1731.0	1728.5	1724.4	1723.6	1725.2	1727.7	1730.2	1729.3	1733.5	1740.1
5°	1716.2	1726.0	1725.2	1725.2	1728.5	1735.1	1739.2	1743.3	1739.2	1744.2	1753.2
7.5°	1719.5	1726.9	1730.2	1733.5	1741.7	1754.1	1763.9	1773.0	1768.1	1773.8	1785.4
10°	1761.5	1767.2	1770.5	1770.5	1776.3	1790.3	1800.2	1816.7	1812.6	1821.6	1836.4
12.5°	1838.1	1843.9	1843.9	1840.6	1844.7	1853.8	1857.0	1875.2	1867.8	1882.6	1897.4
15°	1932.0	1943.6	1934.5	1928.7	1930.4	1939.4	1938.6	1952.6	1945.2	1957.6	1970.7
17.5°	2035.8	2050.7	2035.8	2035.0	2031.7	2041.6	2042.4	2054.8	2041.6	2050.7	2059.7
20°	2158.6	2179.2	2166.8	2170.9	2163.5	2167.7	2171.8	2189.9	2169.3	2175.9	2173.4
22.5°	2331.6	2356.3	2343.1	2358.8	2353.9	2350.6	2349.7	2381.9	2349.7	2352.2	2328.3
25°	2583.7	2613.4	2590.3	2611.7	2611.7	2622.4	2634.8	2676.0	2622.4	2606.8	2545.0
27.5°	2956.1	2985.8	2940.5	2953.6	2949.5	2975.9	2962.7	3064.9	3007.2	2981.7	2857.2
30°	3404.3	3457.0	3371.4	3368.1	3363.9	3406.0	3424.9	3492.5	3434.0	3408.4	3258.5
32.5°	3888.8	3944.0	3841.8	3812.1	3796.5	3822.0	3806.4	3860.7	3820.4	3780.8	3595.5
35°	4401.2	4455.6	4358.4	4300.7	4238.1	4184.5	4128.5	4142.5	4104.6	4044.5	3852.5
37.5°	4885.7	4985.4	4882.4	4820.6	4705.2	4600.6	4444.1	4379.0	4343.5	4288.3	4094.7
40°	5379.2	5436.0	5357.8	5305.0	5179.8	5015.8	4765.4	4627.8	4580.0	4526.4	4362.5
42.5°	5742.5	5796.9	5754.9	5718.6	5620.6	5430.3	5106.5	4934.3	4865.1	4804.9	4665.7
45°	6030.9	6071.2	6044.9	6058.1	6016.0	5831.5	5459.9	5263.0	5191.3	5118.0	5008.4
47.5°	6147.0	6189.9	6231.9	6310.2	6381.8	6245.9	5839.7	5618.9	5543.1	5468.2	5360.2
50°	6133.9	6177.5	6299.5	6465.9	6688.3	6643.0	6240.1	5997.9	5927.9	5842.2	5742.5
52.5°	6028.4	6077.8	6234.4	6511.2	6865.5	6940.4	6648.0	6389.3	6323.3	6221.2	6121.5
55°	5751.6	5781.2	6016.0	6408.2	6907.5	7148.1	7047.5	6806.1	6740.2	6597.7	6489.0
57.5°	5238.3	5281.1	5623.0	6130.6	6802.0	7288.9	7398.5	7244.5	7181.0	6975.9	6862.2
60°	4568.5	4636.8	5028.2	5664.2	6533.4	7288.1	7717.4	7675.4	7622.6	7348.3	7229.6
62.5°	3810.5	3889.6	4266.1	5005.1	6063.8	7081.3	7916.8	8036.2	8009.0	7691.8	7540.2
65°	2926.5	2980.8	3355.7	4152.4	5333.0	6637.3	7939.8	8282.6	8287.5	7953.0	7702.5
67.5°	1948.5	2105.0	2430.5	3115.9	4354.3	5911.4	7737.1	8322.9	8370.7	8042.8	7621.0
70°	950.8	1156.7	1475.6	2025.1	3115.9	4798.3	7207.4	7991.7	8098.0	7780.8	7134.9
72.5°	394.6	461.4	635.2	999.4	1788.7	3237.9	6142.9	7093.7	7290.6	6894.3	5998.7
75°	266.1	288.4	363.3	512.5	814.8	1596.7	4430.1	5289.4	5606.6	5207.0	4256.2
77.5°	205.1	219.2	264.5	358.4	484.4	603.9	2371.2	3187.6	3351.6	3102.8	2214.6
80°	161.5	172.2	197.7	261.2	343.6	323.0	808.2	1444.3	1539.0	1291.0	711.8
82.5°	140.1	144.2	141.7	177.1	228.2	188.7	265.3	533.1	588.3	426.8	232.3
85°	101.3	112.9	117.8	109.6	121.1	95.6	108.8	188.7	207.6	185.4	131.0
87.5°	41.2	61.0	75.0	70.9	44.5	27.2	33.8	55.2	63.4	69.2	42.8
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°	1739.2	1739.2	1739.2	1739.2	1739.2	1739.2	1739.2	1739.2	1739.2	1739.2	1739.2
2.5°	1740.9	1746.6	1750.8	1755.7	1759.0	1763.9	1773.8	1779.6	1780.4	1784.5	1783.7
5°	1756.5	1764.8	1773.8	1787.0	1801.8	1814.2	1833.2	1846.3	1851.3	1855.4	1854.6
7.5°	1790.3	1801.8	1818.3	1841.4	1862.8	1879.3	1902.4	1918.0	1933.7	1939.4	1940.3
10°	1840.6	1857.0	1880.9	1912.2	1935.3	1956.7	1980.6	1993.8	2009.5	2016.1	2019.4
12.5°	1903.2	1920.5	1951.8	1995.5	2016.9	2031.7	2039.9	2036.7	2039.9	2045.7	2047.4
15°	1974.9	1993.8	2029.2	2076.2	2091.0	2077.8	2059.7	2043.2	2040.8	2042.4	2048.2
17.5°	2059.7	2073.7	2114.9	2154.5	2143.8	2089.4	2049.8	2023.5	2010.3	2006.2	2011.9
20°	2178.4	2178.4	2212.1	2236.9	2165.2	2072.9	2011.1	1968.3	1941.1	1929.5	1927.1
22.5°	2322.5	2309.4	2330.8	2313.5	2161.1	2026.8	1941.1	1866.9	1825.7	1809.3	1806.8
25°	2505.4	2489.8	2484.0	2376.9	2131.4	1953.4	1814.2	1724.4	1688.1	1679.1	1680.7
27.5°	2781.4	2741.9	2666.9	2411.5	2077.0	1838.1	1665.9	1582.7	1562.1	1562.9	1565.4
30°	3148.9	3069.8	2886.1	2417.3	1988.0	1675.0	1514.3	1455.0	1445.1	1449.2	1463.2
32.5°	3489.2	3414.2	3110.2	2390.9	1851.3	1515.1	1378.4	1338.8	1324.0	1328.9	1335.5
35°	3756.1	3735.5	3317.8	2353.9	1683.2	1365.2	1256.4	1222.7	1193.8	1187.2	1192.2
37.5°	4008.2	4000.0	3473.5	2301.9	1516.8	1258.9	1158.4	1113.9	1071.9	1048.8	1049.6
40°	4285.0	4276.8	3575.7	2222.0	1369.3	1166.6	1070.2	1011.7	959.8	917.8	921.9
42.5°	4596.5	4547.9	3624.3	2107.5	1244.1	1088.4	998.6	919.5	851.1	812.4	814.8
45°	4936.7	4827.2	3623.5	1961.7	1138.6	1016.7	921.9	809.9	746.4	710.2	708.5
47.5°	5297.6	5094.1	3579.0	1800.2	1036.5	937.6	803.3	717.6	675.6	653.3	648.4
50°	5670.0	5343.7	3503.2	1614.8	931.8	847.8	729.1	670.6	638.5	617.9	610.5
52.5°	6020.2	5570.3	3411.7	1404.7	825.5	760.4	696.2	650.9	617.1	594.0	584.1
55°	6345.6	5765.6	3282.4	1189.7	739.0	702.0	680.5	642.6	603.9	576.7	566.0
57.5°	6634.8	5892.5	3059.1	987.8	677.2	661.6	664.1	628.6	584.1	561.1	546.2
60°	6875.4	5985.6	2728.7	800.8	627.0	622.0	638.5	602.3	550.4	524.0	512.5
62.5°	7019.5	5983.9	2323.4	655.8	584.1	585.8	604.7	569.3	516.6	491.9	484.4
65°	7007.2	5837.3	1878.5	561.1	542.9	544.6	569.3	533.1	488.6	473.7	472.9
67.5°	6759.2	5479.7	1441.0	499.3	497.6	505.0	533.9	508.3	471.3	469.6	472.1
70°	6087.7	4737.4	1038.1	449.8	450.7	461.4	499.3	492.7	462.2	465.5	464.7
72.5°	4881.5	3611.9	697.0	397.9	398.8	416.1	466.3	480.3	453.1	496.8	503.4
75°	3251.1	2252.5	448.2	342.7	343.6	365.8	437.5	456.4	428.4	495.2	499.3
77.5°	1562.1	1012.6	324.6	288.4	288.4	309.0	378.2	408.6	365.0	384.8	352.6
80°	539.6	380.6	255.4	232.3	227.4	241.4	318.8	354.3	314.7	290.0	271.9
82.5°	212.6	197.7	205.1	180.4	164.0	173.0	248.0	292.5	231.5	209.3	208.4
85°	121.9	128.5	145.0	119.5	94.7	106.3	182.1	210.1	174.7	154.1	157.4
87.5°	33.0	45.3	66.7	61.8	42.8	45.3	86.5	116.2	100.5	77.4	79.9
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)