

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: P940258

Luminaire Tested: **GALN-SB3B-727-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940258
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
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-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11865 lumens
Efficiency: N/A
Efficacy: 108.7 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): 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



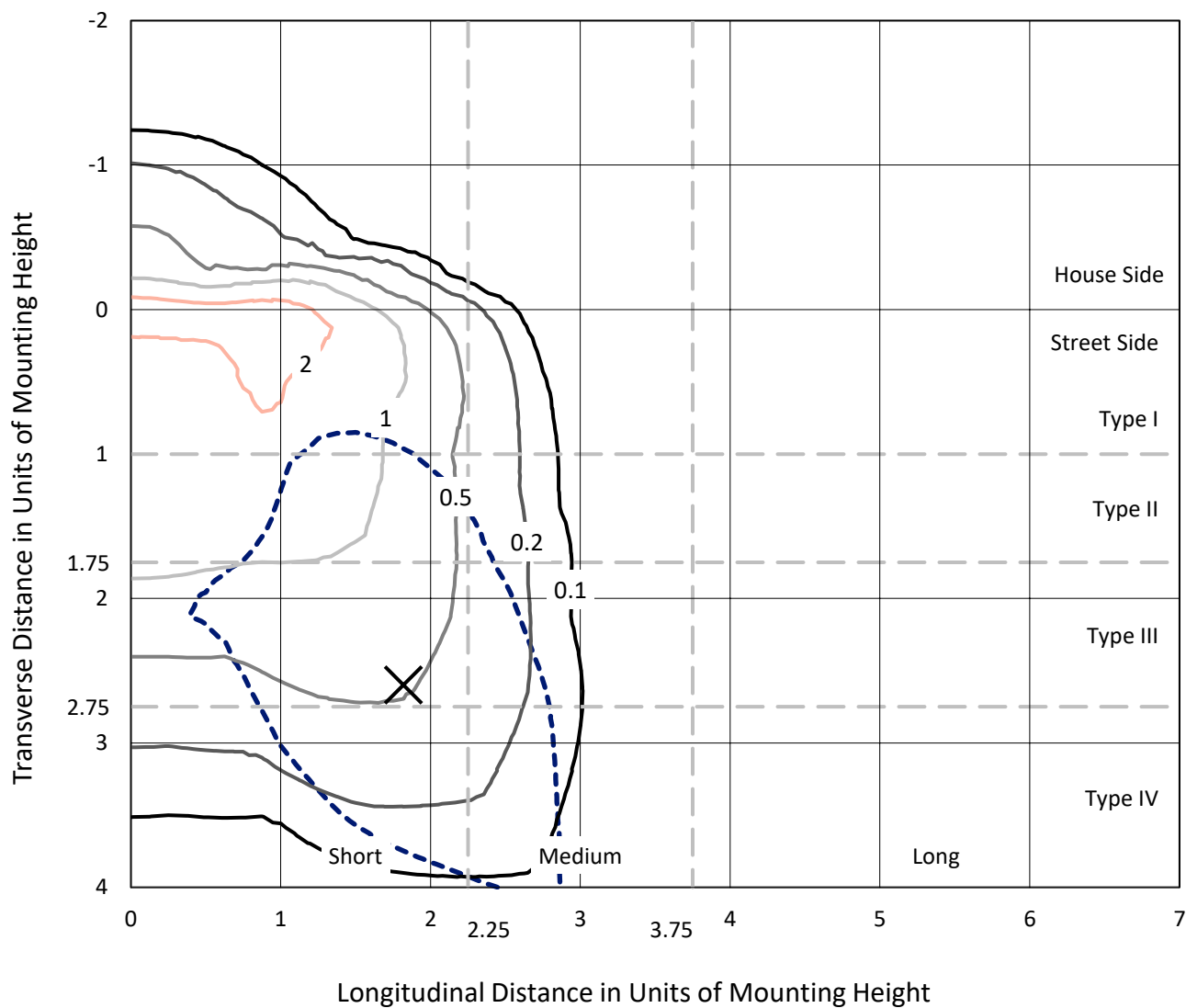
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

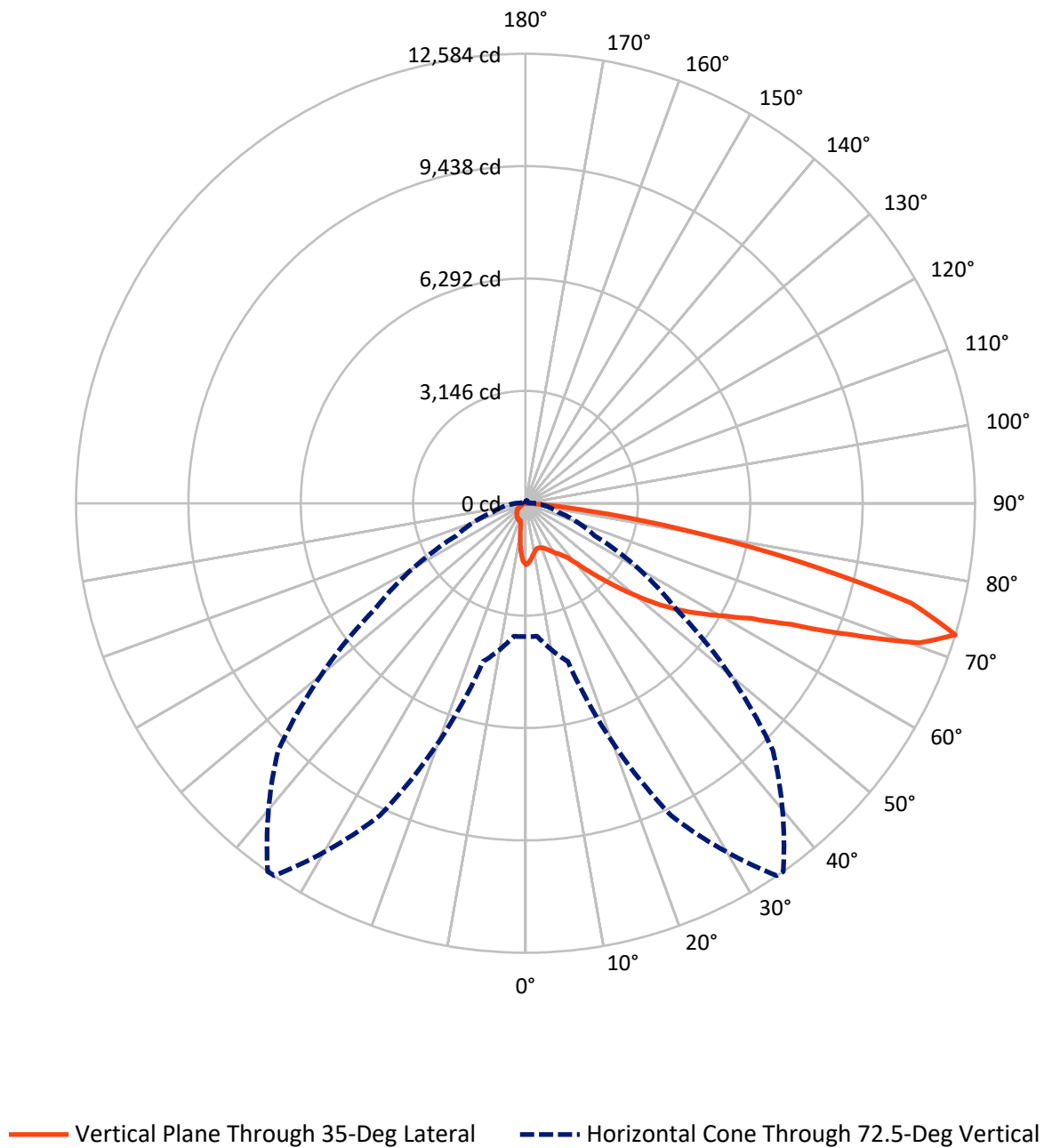


Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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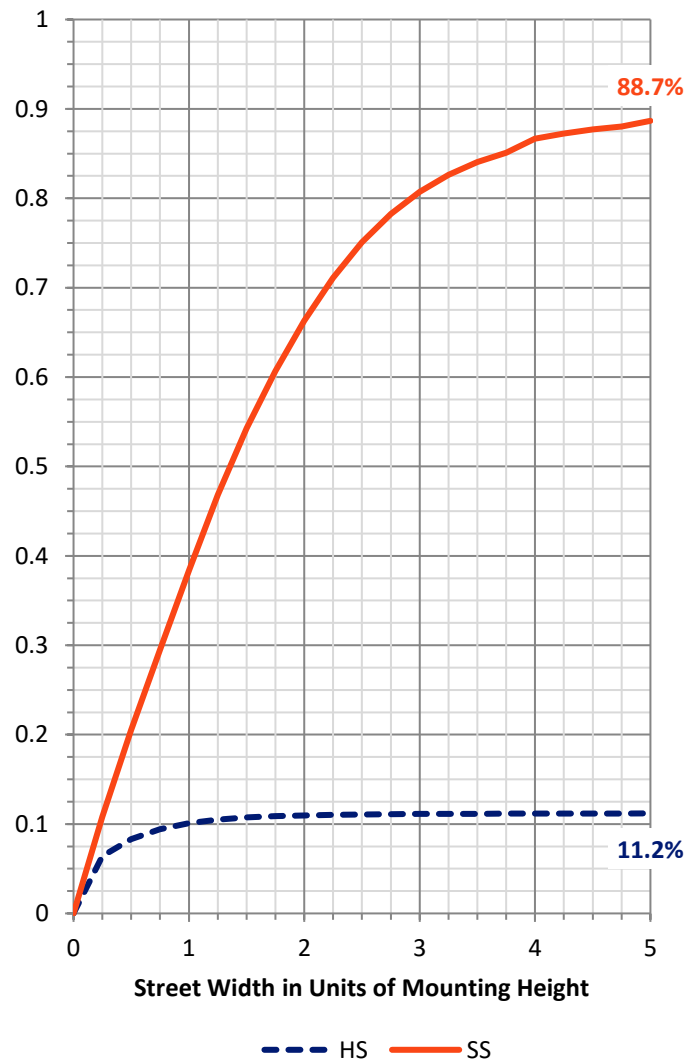
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1335.4	0.0	1335.4
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	10529.6	0.0	10529.6
	% Fixture	88.7	0.0	88.7
Total	Lumens	11865.0	0.0	11865.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.3	1.2
10°-20°	330.6	2.8
20°-30°	537.0	4.5
30°-40°	896.0	7.6
40°-50°	1695.2	14.3
50°-60°	2693.7	22.7
60°-70°	3332.3	28.1
70°-80°	2071.4	17.5
80°-90°	167.4	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°	11865.0	100.0
0°-180°	11865.0	100.0

Coefficient of Utilization



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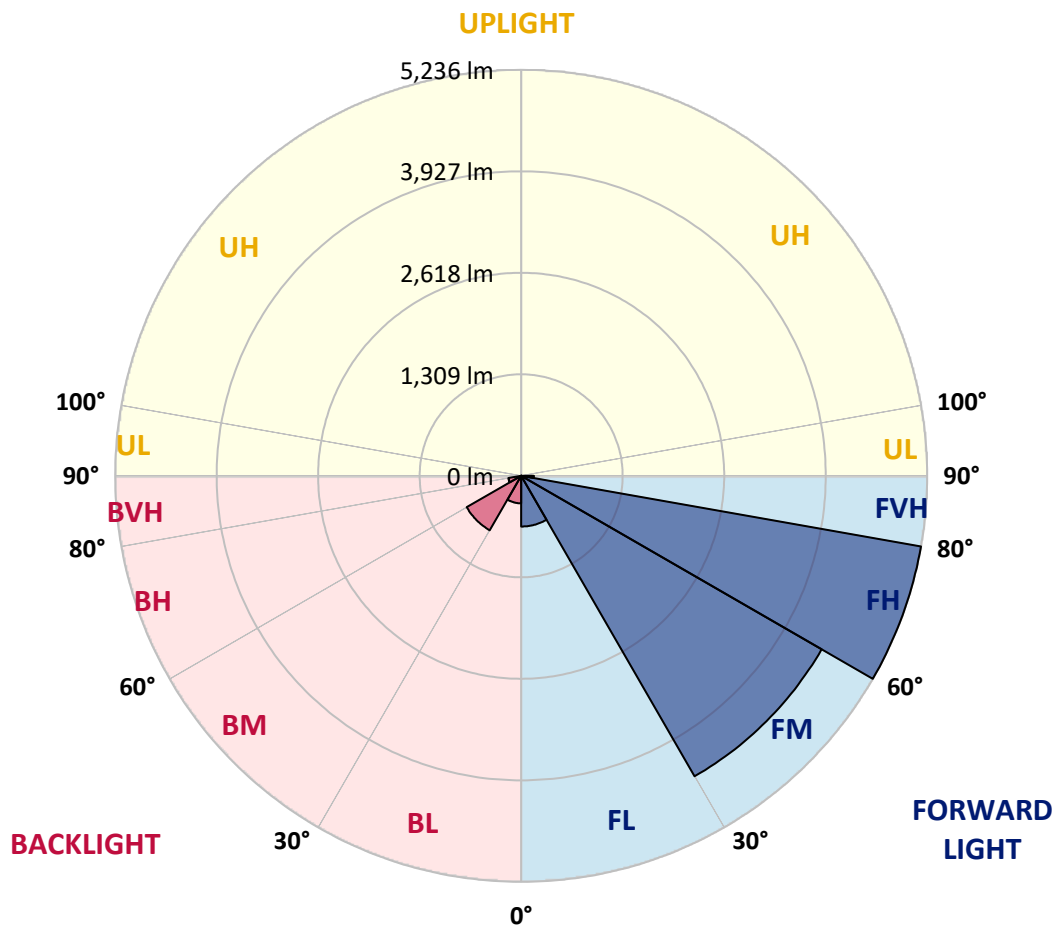
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	654.1	5.5			
FM	(30°-60°)	4474.3	37.7			
FH	(60°-80°)	5236.2	44.1			G3/7500
FVH	(80°-90°)	165.1	1.4			G2/225
BL	(0°-30°)	354.8	3.0	B1/500		
BM	(30°-60°)	810.7	6.8	B1/1000		
BH	(60°-80°)	167.6	1.4	B1/500		G1/500
BVH	(80°-90°)	2.3	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1719.6	1719.6	1719.6	1719.6	1719.6	1719.6	1719.6	1719.6	1719.6	1719.6	1719.6
2.5°	1643.1	1657.0	1659.6	1664.0	1664.0	1669.2	1677.9	1690.1	1710.1	1720.5	1727.5
5°	1514.5	1524.9	1537.9	1548.4	1568.4	1571.0	1604.9	1637.9	1684.0	1718.8	1743.1
7.5°	1384.9	1397.1	1414.5	1439.7	1465.8	1473.6	1524.9	1580.5	1653.6	1718.8	1759.6
10°	1293.6	1294.5	1310.2	1335.4	1377.1	1386.7	1449.3	1528.4	1619.7	1708.3	1775.3
12.5°	1242.3	1248.4	1255.4	1274.5	1314.5	1320.6	1387.5	1480.6	1585.8	1702.2	1793.5
15°	1242.3	1246.7	1251.0	1260.6	1292.8	1298.0	1357.1	1450.1	1568.4	1704.9	1823.1
17.5°	1255.4	1262.3	1258.9	1270.2	1304.1	1307.5	1359.7	1441.4	1567.5	1721.4	1868.3
20°	1286.7	1291.9	1284.9	1291.9	1325.8	1332.8	1386.7	1458.0	1582.3	1750.1	1924.8
22.5°	1336.2	1338.8	1322.3	1327.5	1362.3	1371.0	1433.6	1504.9	1617.9	1796.1	2000.4
25°	1398.8	1404.1	1378.8	1384.9	1418.0	1428.4	1500.6	1575.3	1674.4	1859.6	2096.9
27.5°	1471.0	1473.6	1451.9	1451.0	1493.6	1508.4	1581.4	1662.3	1750.1	1939.6	2218.7
30°	1553.6	1561.4	1540.5	1537.1	1591.0	1603.1	1675.3	1769.2	1861.3	2059.6	2391.7
32.5°	1618.8	1624.9	1612.7	1621.4	1676.2	1685.7	1789.2	1920.5	2036.1	2230.0	2627.3
35°	1712.7	1716.2	1688.3	1704.0	1766.6	1790.9	1944.8	2132.6	2256.0	2443.8	2935.0
37.5°	2052.6	2052.6	1934.4	1857.0	1917.0	1938.7	2157.8	2399.5	2527.3	2730.7	3322.8
40°	2522.9	2515.1	2342.1	2183.9	2176.1	2218.7	2461.2	2735.9	2877.7	3075.0	3759.2
42.5°	3024.6	3012.4	2776.8	2620.3	2594.2	2609.0	2811.6	3150.6	3295.0	3494.9	4228.7
45°	3469.7	3466.2	3250.6	3040.2	2993.3	3040.2	3248.9	3635.8	3739.2	3949.6	4697.3
47.5°	3842.7	3842.7	3685.3	3547.9	3523.6	3551.4	3840.9	4173.9	4164.3	4433.8	5153.7
50°	4272.1	4268.7	4119.1	4060.0	4085.2	4124.3	4522.5	4740.7	4604.2	4909.4	5561.4
52.5°	4572.9	4593.8	4542.5	4533.0	4661.6	4729.4	5214.5	5295.4	4998.1	5360.6	5866.6
55°	4811.2	4835.5	4894.6	4961.6	5209.3	5298.0	5884.8	5821.4	5327.6	5751.8	6042.2
57.5°	5148.5	5113.7	5205.0	5337.1	5737.9	5844.9	6534.3	6317.8	5592.7	6069.2	6061.3
60°	5558.0	5563.2	5578.8	5745.7	6265.6	6403.0	7174.1	6787.3	5763.1	6263.9	5849.2
62.5°	6050.0	6057.8	6090.0	6346.5	6974.2	7103.7	7855.7	7171.5	5841.4	6209.1	5301.5
65°	6016.1	6049.2	6408.2	7285.4	8051.3	8179.1	8651.2	7441.0	5723.1	5708.4	4316.5
67.5°	5480.6	5534.5	6135.2	8406.9	9675.3	9817.9	9612.7	7494.1	5212.8	4439.1	2815.9
70°	4778.1	4797.2	5519.7	9415.4	11555.8	11700.1	10473.4	6910.7	3955.7	2476.0	1261.5
72.5°	3731.4	3735.7	4583.4	9649.3	12576.5	12584.3	9797.9	5130.2	2127.4	951.1	438.2
75°	2665.5	2639.4	3069.8	7825.3	11064.6	11153.3	7345.4	2406.4	812.9	449.5	218.2
77.5°	1429.3	1458.0	1737.0	4640.8	7643.6	7794.9	4007.8	693.8	413.8	306.0	144.3
80°	441.6	466.0	712.0	2124.8	4329.5	4420.8	1485.8	308.6	288.6	218.2	94.8
82.5°	139.1	144.3	332.1	892.9	1797.0	1838.7	430.3	174.7	197.3	144.3	55.6
85°	40.0	40.9	147.8	333.0	444.3	452.9	120.8	67.8	113.0	89.5	28.7
87.5°	4.3	13.9	55.6	55.6	39.1	38.3	13.0	14.8	32.2	11.3	5.2
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°	1719.6	1719.6	1719.6	1719.6	1719.6	1719.6	1719.6	1719.6	1719.6	1719.6	1719.6
2.5°	1723.1	1724.0	1712.7	1693.6	1672.7	1655.3	1633.6	1616.2	1604.0	1600.5	1606.6
5°	1735.3	1729.2	1697.0	1638.8	1569.2	1509.2	1442.3	1389.3	1354.5	1339.7	1344.9
7.5°	1753.5	1736.2	1665.7	1551.0	1418.0	1299.7	1179.8	1086.7	1027.6	998.0	1002.4
10°	1769.2	1734.4	1613.6	1424.0	1220.6	1041.5	879.8	767.7	705.1	675.5	676.4
12.5°	1784.0	1733.5	1545.8	1273.6	998.0	779.0	628.6	572.9	555.5	549.4	547.7
15°	1811.8	1736.2	1460.6	1101.5	776.4	588.6	533.8	532.9	536.4	534.7	533.8
17.5°	1850.0	1738.8	1364.1	918.9	599.0	519.0	516.4	524.2	529.5	526.8	526.0
20°	1899.6	1749.2	1261.5	738.1	514.7	501.6	507.7	514.7	519.0	514.7	513.8
22.5°	1969.1	1767.5	1149.3	592.9	487.7	491.2	496.4	504.2	508.6	502.5	501.6
25°	2054.3	1796.1	1038.9	515.5	474.7	479.0	486.9	495.5	500.8	494.7	493.8
27.5°	2164.8	1842.2	937.2	498.2	461.6	464.2	475.6	488.6	495.5	487.7	487.7
30°	2324.7	1917.9	849.4	506.0	453.8	447.7	463.4	481.6	489.5	482.5	481.6
32.5°	2536.9	2024.8	795.5	518.2	450.3	428.6	443.4	466.9	479.9	475.6	475.6
35°	2815.1	2187.4	774.6	532.1	447.7	408.6	419.0	444.3	466.9	471.2	471.2
37.5°	3152.4	2413.4	780.7	538.1	439.9	392.1	397.3	419.0	448.6	462.5	466.0
40°	3535.8	2676.8	815.5	532.1	431.2	378.2	379.1	395.6	421.6	442.5	449.5
42.5°	3931.3	2984.6	879.8	509.5	423.4	366.0	363.4	374.7	392.1	406.9	413.0
45°	4307.8	3301.0	943.3	478.2	413.8	353.8	347.8	352.1	355.6	361.7	365.1
47.5°	4636.4	3523.6	925.0	449.5	400.8	339.9	329.5	327.8	317.3	316.5	315.6
50°	4863.3	3572.3	821.6	420.8	381.7	324.3	307.8	297.3	279.1	270.4	271.2
52.5°	4935.5	3380.2	671.2	392.1	350.4	303.4	279.9	263.4	240.8	233.0	232.1
55°	4839.8	3003.7	536.4	357.3	306.9	275.6	249.5	227.8	209.5	200.0	200.0
57.5°	4606.0	2524.7	424.3	316.5	260.8	244.3	218.2	196.5	180.8	171.3	169.5
60°	4218.2	2004.8	335.6	267.8	222.6	210.4	183.4	169.5	155.6	144.3	141.7
62.5°	3629.7	1431.0	263.4	212.1	186.0	172.1	156.5	146.1	129.5	113.9	111.3
65°	2832.4	875.5	203.4	155.6	149.5	142.6	133.0	123.5	103.5	87.8	85.2
67.5°	1786.6	414.7	145.2	117.4	118.2	114.8	110.4	102.6	87.8	73.9	72.2
70°	786.8	200.8	95.6	89.5	87.8	87.8	91.3	88.7	74.8	61.7	59.1
72.5°	267.8	107.8	71.3	67.8	63.5	62.6	76.5	73.9	60.0	47.8	45.2
75°	140.0	72.2	52.2	48.7	38.3	46.1	60.9	57.4	42.6	31.3	28.7
77.5°	91.3	51.3	35.6	31.3	21.7	30.4	45.2	40.0	25.2	15.6	13.9
80°	57.4	33.9	20.9	14.8	10.4	16.5	24.3	17.4	9.6	3.5	2.6
82.5°	30.4	17.4	7.8	5.2	4.3	5.2	6.1	4.3	1.7	0.0	0.0
85°	12.2	6.1	2.6	1.7	0.9	0.0	1.7	0.9	0.0	0.0	0.0
87.5°	4.3	0.9	0.0	0.0	0.0	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)