

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: LUMARK

Report Number: P883150

Luminaire Tested: **NAV-SB3B-835-U-T4FT-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883150
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3B-835-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 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: 10790 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

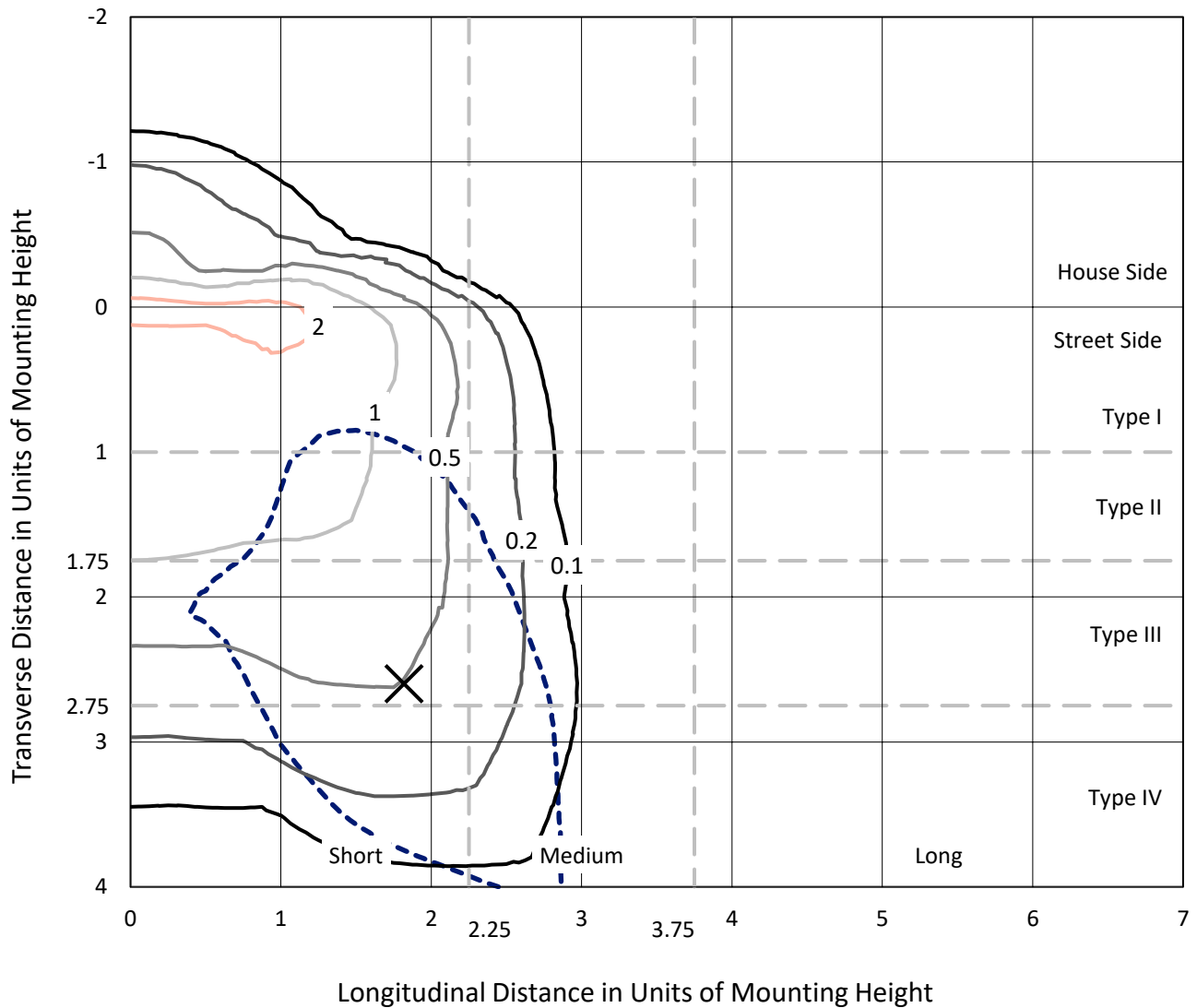
Input Watts (W): 109.2
Input Voltage (V): 120.0
Input Current (Ain): 0.919
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.657
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

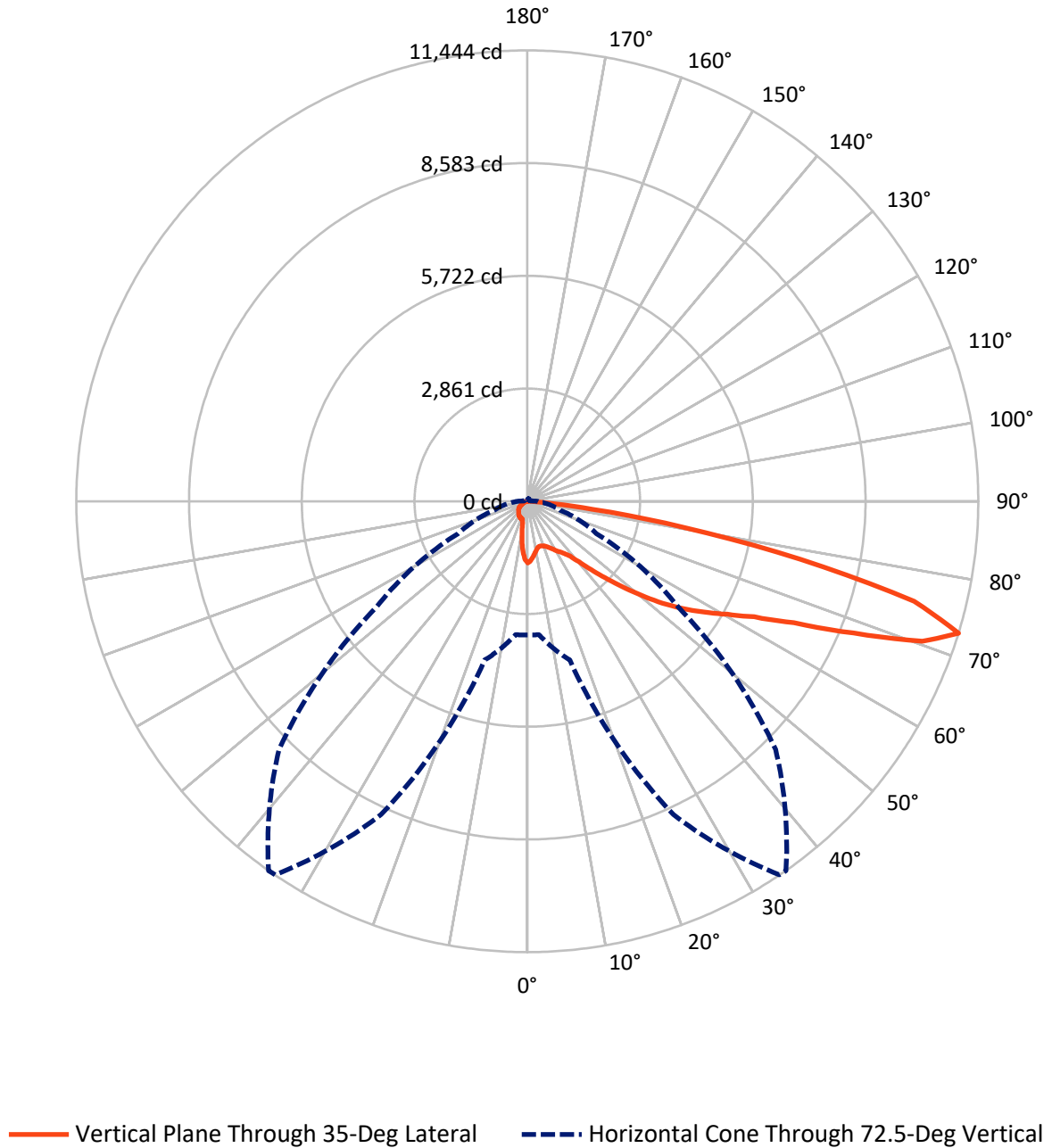
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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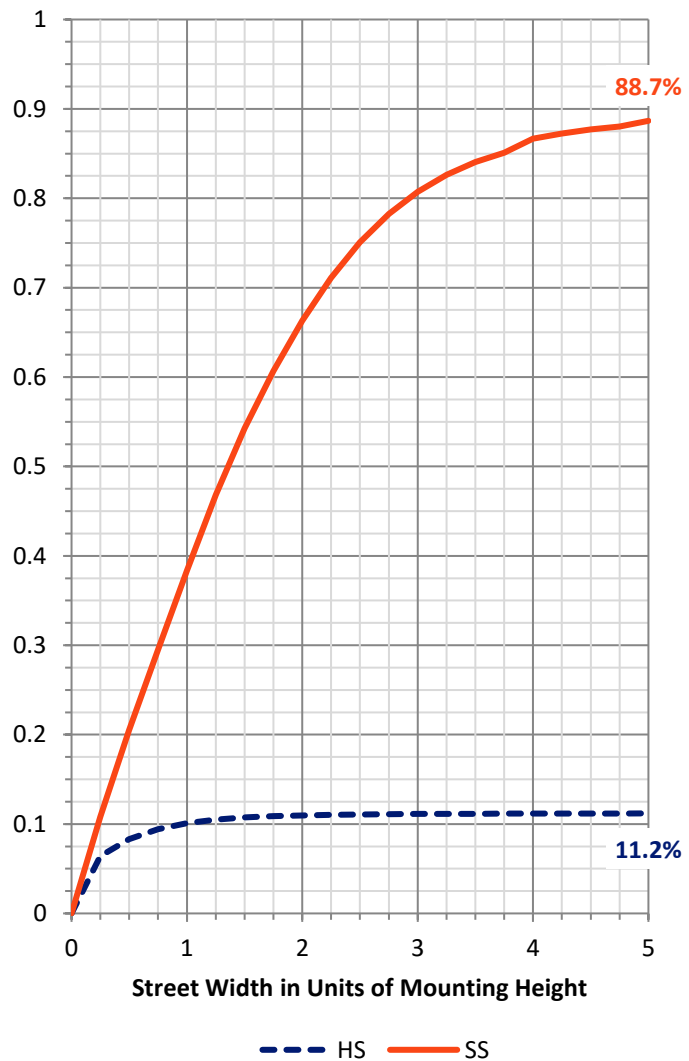
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1214.4	0.0	1214.4
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	9575.6	0.0	9575.6
	% Fixture	88.7	0.0	88.7
Total	Lumens	10790.0	0.0	10790.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.5	1.2
10°-20°	300.6	2.8
20°-30°	488.4	4.5
30°-40°	814.8	7.6
40°-50°	1541.7	14.3
50°-60°	2449.7	22.7
60°-70°	3030.4	28.1
70°-80°	1883.7	17.5
80°-90°	152.2	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°	10790.0	100.0
0°-180°	10790.0	100.0

Coefficient of Utilization

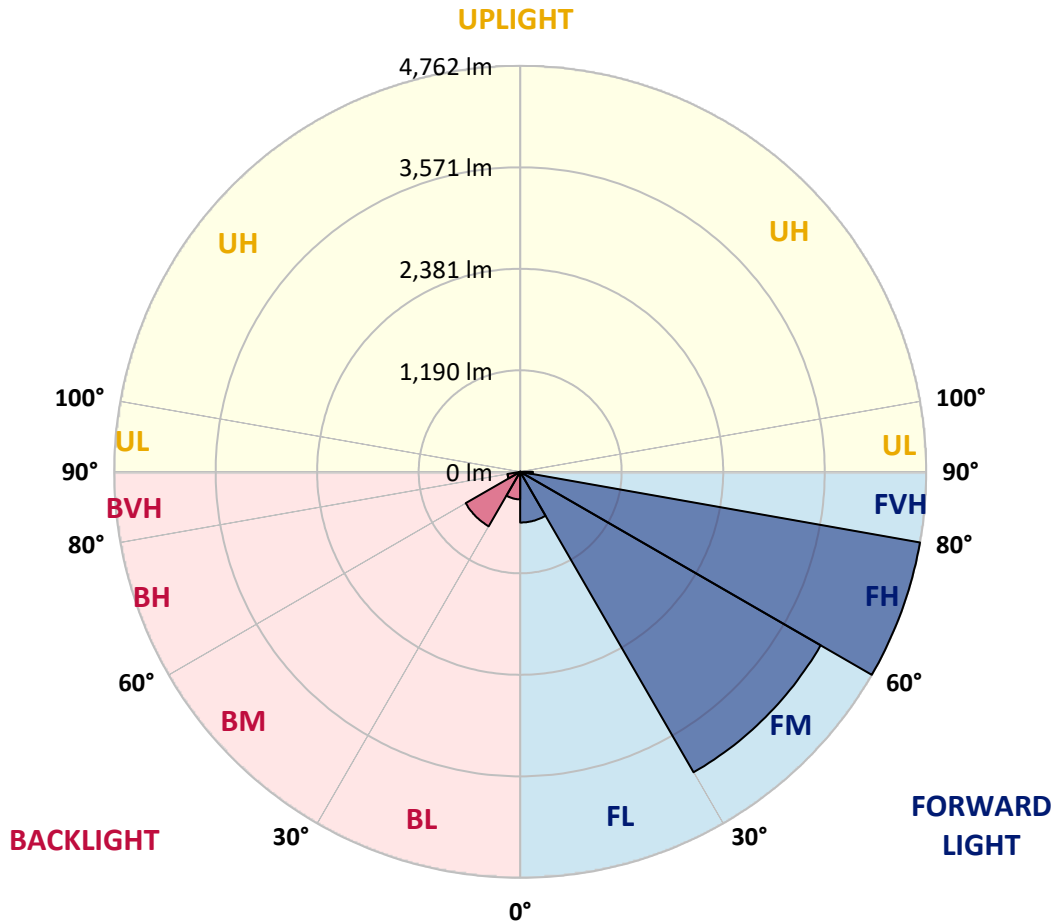


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	594.8	5.5			
FM (30°-60°)	4068.9	37.7			
FH (60°-80°)	4761.8	44.1			G2/5000
FVH (80°-90°)	150.2	1.4			G2/225
BL (0°-30°)	322.7	3.0	B1/500		
BM (30°-60°)	737.2	6.8	B1/1000		
BH (60°-80°)	152.4	1.4	B1/500		G1/500
BVH (80°-90°)	2.1	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-G2
 Type IV Short



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CATALOG NUMBER: NAV-SB3B-835-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8
2.5°	1494.3	1506.9	1509.3	1513.2	1513.2	1518.0	1525.9	1537.0	1555.1	1564.6	1570.9
5°	1377.2	1386.7	1398.6	1408.1	1426.3	1428.6	1459.5	1489.5	1531.4	1563.0	1585.2
7.5°	1259.4	1270.5	1286.3	1309.3	1333.0	1340.1	1386.7	1437.3	1503.7	1563.0	1600.2
10°	1176.4	1177.2	1191.5	1214.4	1252.3	1261.0	1318.0	1389.9	1472.9	1553.6	1614.4
12.5°	1129.8	1135.3	1141.6	1159.0	1195.4	1200.9	1261.8	1346.4	1442.1	1548.0	1631.0
15°	1129.8	1133.7	1137.7	1146.4	1175.6	1180.4	1234.1	1318.7	1426.3	1550.4	1657.9
17.5°	1141.6	1148.0	1144.8	1155.1	1185.9	1189.1	1236.5	1310.8	1425.5	1565.4	1699.0
20°	1170.1	1174.9	1168.5	1174.9	1205.7	1212.0	1261.0	1325.9	1438.9	1591.5	1750.4
22.5°	1215.2	1217.5	1202.5	1207.3	1238.9	1246.8	1303.7	1368.6	1471.3	1633.4	1819.2
25°	1272.1	1276.8	1253.9	1259.4	1289.5	1299.0	1364.6	1432.6	1522.7	1691.1	1907.0
27.5°	1337.7	1340.1	1320.3	1319.5	1358.3	1371.7	1438.1	1511.7	1591.5	1763.9	2017.6
30°	1412.8	1419.9	1401.0	1397.8	1446.8	1457.9	1523.5	1608.9	1692.7	1873.0	2175.0
32.5°	1472.1	1477.7	1466.6	1474.5	1524.3	1533.0	1627.1	1746.5	1851.6	2027.9	2389.2
35°	1557.5	1560.7	1535.4	1549.6	1606.5	1628.7	1768.6	1939.4	2051.6	2222.4	2669.1
37.5°	1866.6	1866.6	1759.1	1688.7	1743.3	1763.1	1962.3	2182.1	2298.3	2483.3	3021.7
40°	2294.4	2287.2	2129.9	1986.0	1978.9	2017.6	2238.2	2488.1	2616.9	2796.4	3418.6
42.5°	2750.5	2739.5	2525.2	2382.9	2359.2	2372.6	2556.8	2865.2	2996.4	3178.3	3845.5
45°	3155.3	3152.2	2956.1	2764.8	2722.1	2764.8	2954.5	3306.3	3400.4	3591.8	4271.7
47.5°	3494.5	3494.5	3351.4	3226.5	3204.4	3229.7	3492.9	3795.7	3787.0	4032.1	4686.8
50°	3885.1	3881.9	3745.9	3692.2	3715.1	3750.7	4112.8	4311.2	4187.1	4464.6	5057.6
52.5°	4158.6	4177.6	4131.0	4122.3	4239.3	4300.9	4742.1	4815.6	4545.2	4874.9	5335.1
55°	4375.3	4397.4	4451.2	4512.0	4737.4	4818.0	5351.7	5293.9	4844.9	5230.7	5494.8
57.5°	4682.0	4650.4	4733.4	4853.6	5218.0	5315.3	5942.2	5745.4	5086.0	5519.3	5512.2
60°	5054.4	5059.1	5073.4	5225.2	5697.9	5822.9	6524.1	6172.3	5241.0	5696.4	5319.2
62.5°	5501.9	5509.0	5538.2	5771.5	6342.3	6460.1	7144.0	6521.8	5312.1	5646.6	4821.2
65°	5471.0	5501.1	5827.6	6625.3	7321.9	7438.1	7867.4	6766.9	5204.6	5191.2	3925.4
67.5°	4984.0	5033.0	5579.4	7645.2	8798.7	8928.4	8741.8	6815.1	4740.5	4036.9	2560.8
70°	4345.2	4362.6	5019.6	8562.3	10508.8	10640.1	9524.5	6284.6	3597.3	2251.7	1147.2
72.5°	3393.3	3397.3	4168.1	8775.0	11437.0	11444.1	8910.2	4665.4	1934.6	864.9	398.5
75°	2424.0	2400.3	2791.7	7116.3	10062.1	10142.8	6679.9	2188.4	739.2	408.7	198.4
77.5°	1299.8	1325.9	1579.6	4220.3	6951.1	7088.6	3644.7	630.9	376.3	278.3	131.2
80°	401.6	423.8	647.5	1932.3	3937.3	4020.3	1351.2	280.7	262.5	198.4	86.2
82.5°	126.5	131.2	302.0	812.0	1634.2	1672.1	391.4	158.9	179.5	131.2	50.6
85°	36.4	37.2	134.4	302.8	404.0	411.9	109.9	61.7	102.8	81.4	26.1
87.5°	4.0	12.6	50.6	50.6	35.6	34.8	11.9	13.4	29.3	10.3	4.7
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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 CATALOG NUMBER: NAV-SB3B-835-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8
2.5°	1567.0	1567.8	1557.5	1540.1	1521.1	1505.3	1485.6	1469.7	1458.7	1455.5	1461.1
5°	1578.1	1572.5	1543.3	1490.3	1427.1	1372.5	1311.6	1263.4	1231.8	1218.3	1223.1
7.5°	1594.7	1578.9	1514.8	1410.5	1289.5	1182.0	1072.9	988.3	934.5	907.6	911.6
10°	1608.9	1577.3	1467.4	1295.0	1110.0	947.2	800.1	698.1	641.2	614.3	615.1
12.5°	1622.3	1576.5	1405.7	1158.2	907.6	708.4	571.6	521.0	505.2	499.7	498.1
15°	1647.6	1578.9	1328.2	1001.7	706.0	535.2	485.4	484.6	487.8	486.2	485.4
17.5°	1682.4	1581.2	1240.5	835.7	544.7	472.0	469.6	476.7	481.5	479.1	478.3
20°	1727.5	1590.7	1147.2	671.2	468.0	456.2	461.7	468.0	472.0	468.0	467.3
22.5°	1790.7	1607.3	1045.2	539.2	443.5	446.7	451.4	458.6	462.5	457.0	456.2
25°	1868.2	1633.4	944.8	468.8	431.7	435.6	442.7	450.6	455.4	449.9	449.1
27.5°	1968.6	1675.3	852.3	453.0	419.8	422.2	432.5	444.3	450.6	443.5	443.5
30°	2114.1	1744.1	772.4	460.1	412.7	407.2	421.4	438.0	445.1	438.8	438.0
32.5°	2307.0	1841.3	723.4	471.2	409.5	389.8	403.2	424.6	436.4	432.5	432.5
35°	2560.0	1989.2	704.4	483.9	407.2	371.6	381.1	404.0	424.6	428.5	428.5
37.5°	2866.8	2194.7	710.0	489.4	400.1	356.6	361.3	381.1	408.0	420.6	423.8
40°	3215.4	2434.3	741.6	483.9	392.1	343.9	344.7	359.7	383.4	402.4	408.7
42.5°	3575.2	2714.2	800.1	463.3	385.0	332.8	330.5	340.8	356.6	370.0	375.5
45°	3917.5	3002.0	857.8	434.8	376.3	321.8	316.2	320.2	323.4	328.9	332.1
47.5°	4216.3	3204.4	841.2	408.7	364.5	309.1	299.6	298.1	288.6	287.8	287.0
50°	4422.7	3248.6	747.1	382.7	347.1	294.9	279.9	270.4	253.8	245.9	246.7
52.5°	4488.3	3073.9	610.4	356.6	318.6	275.9	254.6	239.6	219.0	211.9	211.1
55°	4401.3	2731.6	487.8	324.9	279.1	250.6	226.9	207.1	190.5	181.8	181.8
57.5°	4188.7	2295.9	385.8	287.8	237.2	222.2	198.4	178.7	164.4	155.8	154.2
60°	3836.1	1823.2	305.2	243.5	202.4	191.3	166.8	154.2	141.5	131.2	128.9
62.5°	3300.8	1301.3	239.6	192.9	169.2	156.5	142.3	132.8	117.8	103.6	101.2
65°	2575.8	796.1	185.0	141.5	136.0	129.7	121.0	112.3	94.1	79.9	77.5
67.5°	1624.7	377.1	132.0	106.7	107.5	104.4	100.4	93.3	79.9	67.2	65.6
70°	715.5	182.6	87.0	81.4	79.9	79.9	83.0	80.6	68.0	56.1	53.8
72.5°	243.5	98.0	64.8	61.7	57.7	56.9	69.6	67.2	54.6	43.5	41.1
75°	127.3	65.6	47.4	44.3	34.8	41.9	55.3	52.2	38.7	28.5	26.1
77.5°	83.0	46.6	32.4	28.5	19.8	27.7	41.1	36.4	22.9	14.2	12.6
80°	52.2	30.8	19.0	13.4	9.5	15.0	22.1	15.8	8.7	3.2	2.4
82.5°	27.7	15.8	7.1	4.7	4.0	4.7	5.5	4.0	1.6	0.0	0.0
85°	11.1	5.5	2.4	1.6	0.8	0.0	1.6	0.8	0.0	0.0	0.0
87.5°	4.0	0.8	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)