

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: P381188

Luminaire Tested: **PRV-PA1A-8540-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P381188
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-PA1A-8540-U-T2R-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(1) 85 CRI, 4000K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4702.7 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Luminous Opening: Rectangular (W 1.1' x L: 1.12' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - U0 - G1

Input Watts (W): 54
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: 28.75 FT

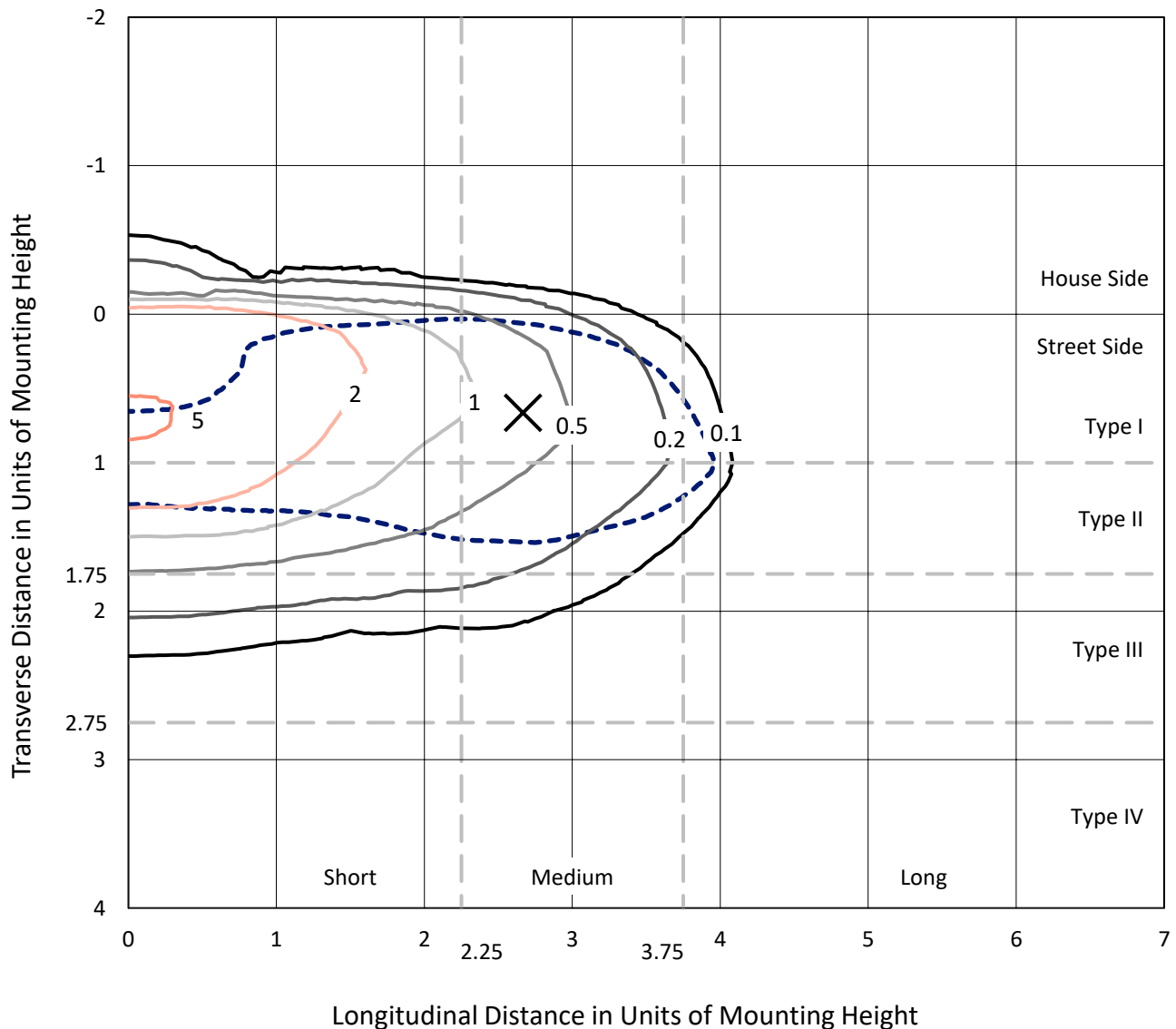


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

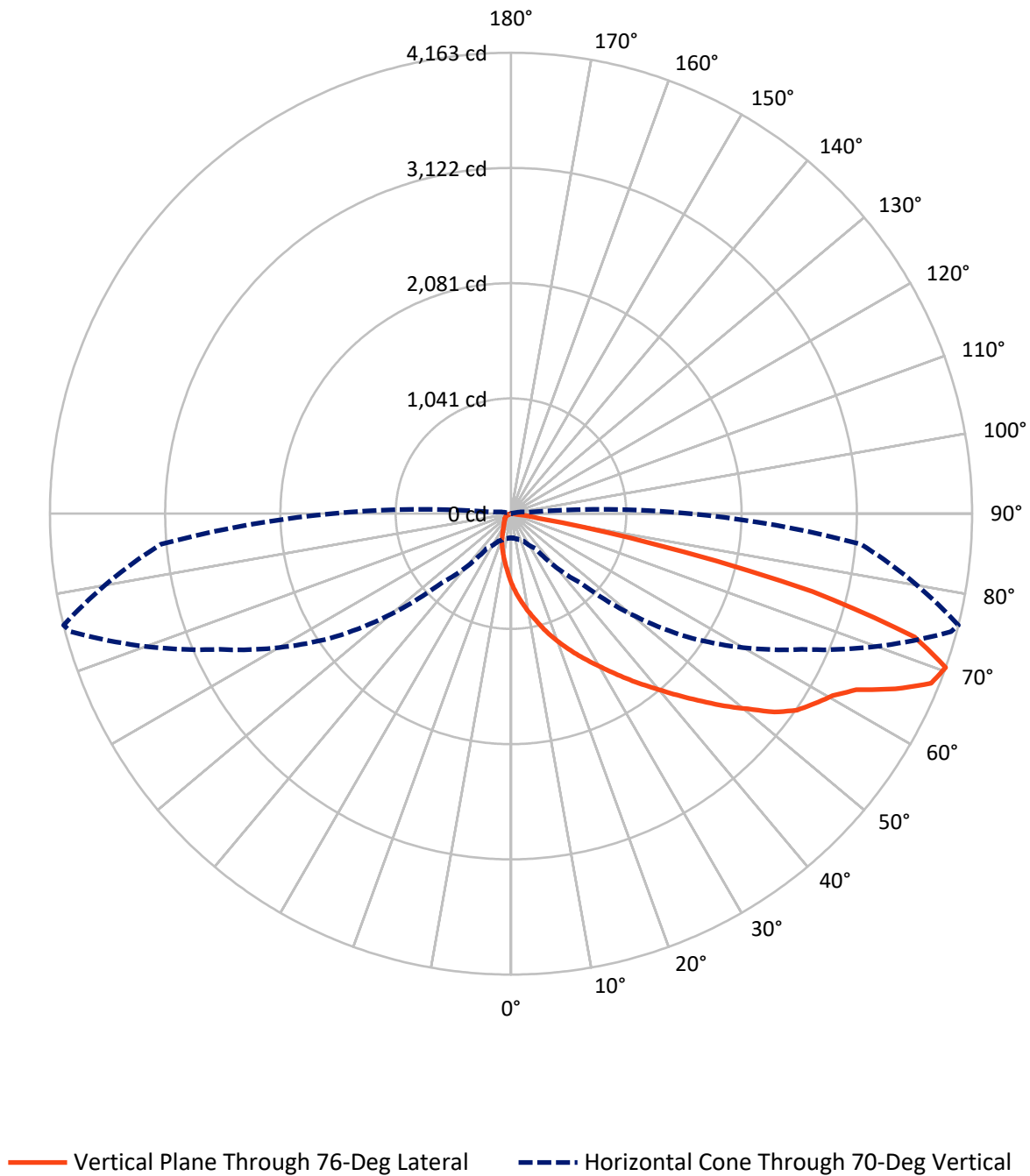


Based on 15 foot mounting height. Maximum calculated value = 5.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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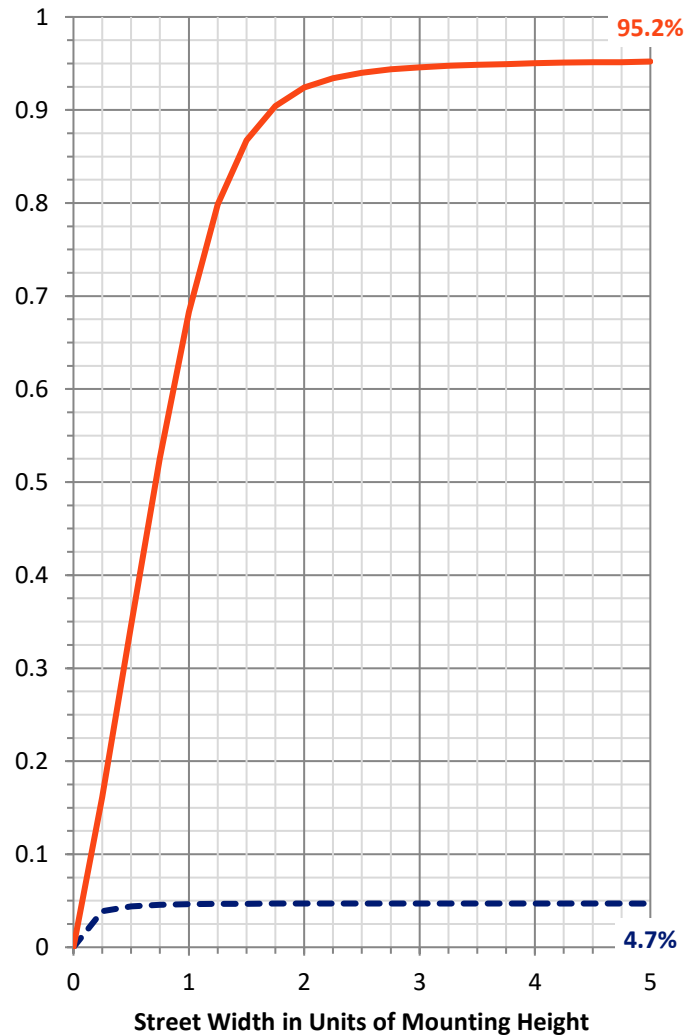
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	221.8	0.0	221.8
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	4480.9	0.0	4480.9
	% Fixture	95.3	0.0	95.3
Total	Lumens	4702.7	0.0	4702.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.3	1.3
10°-20°	191.4	4.1
20°-30°	356.5	7.6
30°-40°	630.5	13.4
40°-50°	964.2	20.5
50°-60°	1093.1	23.2
60°-70°	937.1	19.9
70°-80°	453.9	9.7
80°-90°	16.8	0.4
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°	4702.7	100.0
0°-180°	4702.7	100.0

Coefficient of Utilization



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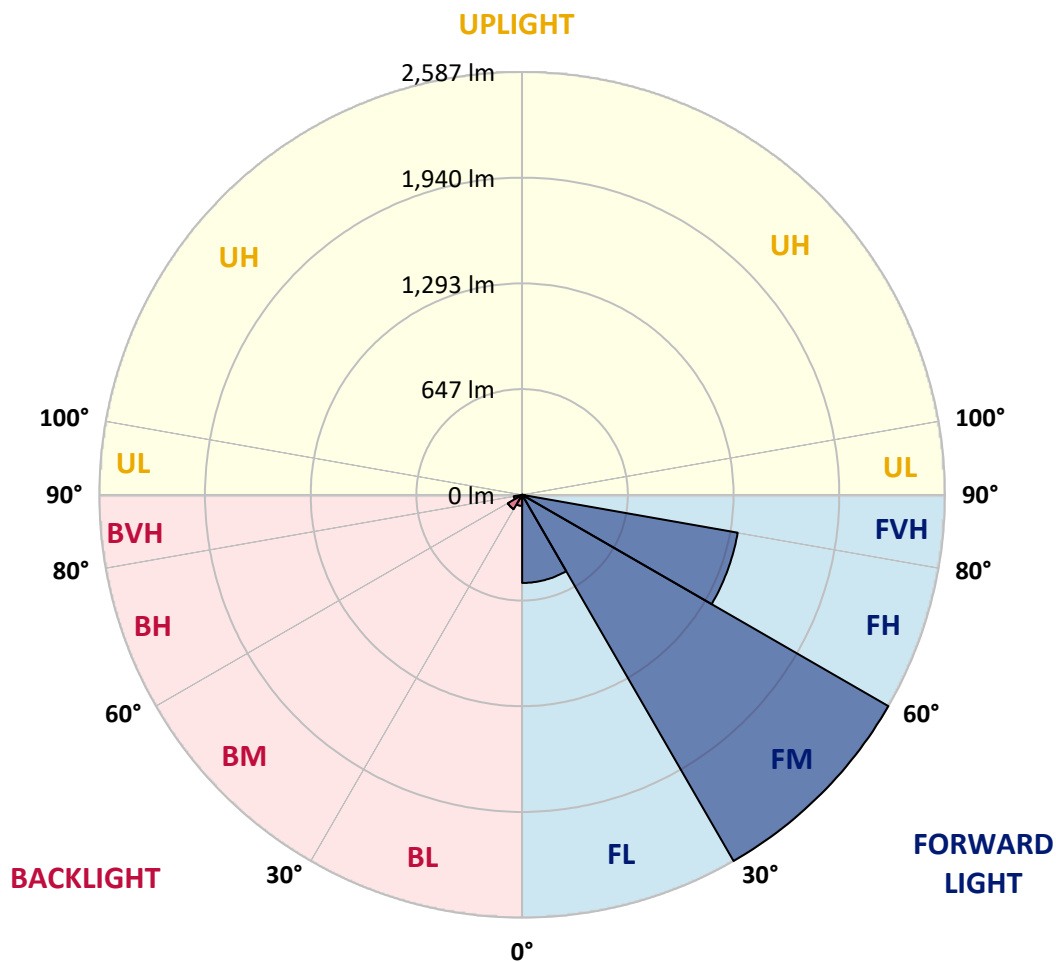
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	539.1	11.5			
FM	(30°-60°)	2586.5	55.0			
FH	(60°-80°)	1338.7	28.5			G1/1800
FVH	(80°-90°)	16.6	0.4			G1/100
BL	(0°-30°)	68.0	1.4	B0/110		
BM	(30°-60°)	101.2	2.2	B0/220		
BH	(60°-80°)	52.2	1.1	B0/110		G0/110
BVH	(80°-90°)	0.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5
2.5°	860.4	855.7	851.0	833.0	816.6	801.7	773.5	736.7	703.8	696.8	658.4
5°	1010.8	1005.3	998.2	980.2	959.1	934.0	892.5	836.2	778.2	765.7	694.4
7.5°	1112.6	1107.9	1097.7	1089.1	1067.9	1043.7	997.5	931.7	851.8	836.2	735.9
10°	1182.3	1179.1	1177.6	1170.5	1154.8	1135.3	1089.1	1020.2	926.2	908.2	779.8
12.5°	1207.3	1207.3	1215.1	1226.9	1229.2	1223.0	1180.7	1111.8	1004.5	985.7	831.5
15°	1173.6	1177.6	1194.8	1232.4	1271.5	1297.4	1270.7	1206.5	1090.6	1070.3	892.5
17.5°	1164.2	1168.2	1179.9	1212.8	1265.2	1334.2	1347.5	1298.1	1172.1	1154.8	955.2
20°	1190.9	1194.8	1205.0	1233.1	1273.1	1342.8	1398.4	1386.6	1258.2	1240.2	1018.6
22.5°	1254.3	1256.6	1256.6	1278.6	1313.8	1365.5	1430.5	1470.4	1346.7	1327.1	1081.2
25°	1390.5	1385.8	1367.0	1356.1	1378.8	1421.1	1471.2	1544.0	1445.3	1418.7	1148.6
27.5°	1569.1	1584.7	1539.3	1486.8	1469.6	1493.9	1528.3	1609.0	1540.9	1512.7	1209.7
30°	1810.9	1804.7	1745.2	1670.0	1595.7	1587.1	1598.8	1664.5	1636.3	1609.8	1277.8
32.5°	2009.8	2021.5	1958.9	1867.3	1756.1	1703.7	1691.1	1731.1	1738.1	1720.9	1358.4
35°	2214.2	2226.7	2165.6	2063.8	1931.5	1843.8	1807.8	1813.3	1864.2	1842.2	1443.0
37.5°	2397.4	2408.4	2348.1	2243.9	2111.6	2004.3	1952.6	1910.4	1986.3	1966.7	1532.3
40°	2536.8	2538.3	2497.6	2404.4	2279.2	2168.0	2109.2	2026.2	2115.5	2102.2	1625.4
42.5°	2635.4	2638.6	2608.8	2528.9	2413.0	2309.7	2261.9	2163.3	2264.3	2252.5	1733.4
45°	2681.6	2687.1	2684.0	2610.4	2514.1	2424.8	2409.1	2308.9	2427.1	2416.2	1857.9
47.5°	2637.8	2637.8	2677.7	2667.5	2579.0	2519.5	2537.5	2460.8	2604.1	2593.9	1984.7
50°	2455.3	2457.7	2539.1	2655.8	2604.1	2590.8	2647.2	2609.6	2764.5	2770.8	2136.7
52.5°	1976.1	1972.2	2247.1	2471.0	2586.9	2622.9	2748.1	2761.4	2957.2	2975.9	2287.8
55°	1476.7	1474.3	1737.3	2143.7	2466.3	2606.5	2804.5	2896.9	3121.6	3133.3	2400.5
57.5°	1168.9	1162.7	1307.5	1727.9	2193.8	2532.8	2806.8	2922.7	3213.2	3233.6	2510.1
60°	898.8	893.3	1001.4	1285.6	1807.8	2337.1	2739.5	2924.3	3301.7	3337.7	2657.3
62.5°	642.8	649.0	732.0	922.3	1390.5	2060.7	2651.9	2946.2	3459.1	3499.8	2866.3
65°	433.8	430.6	499.6	627.9	988.9	1688.8	2517.2	2992.4	3742.5	3813.7	3116.9
67.5°	301.5	303.8	335.1	408.7	627.9	1296.6	2293.3	3018.2	4035.3	4090.9	3292.3
70°	217.7	220.8	238.0	274.8	383.7	879.2	1938.6	2900.0	4114.4	4162.9	3170.1
72.5°	143.3	149.6	175.4	195.0	245.1	550.4	1428.1	2498.4	3773.8	3809.8	2659.7
75°	77.5	79.1	112.8	145.6	174.6	343.0	851.8	1684.9	2823.3	2811.5	1753.8
77.5°	60.3	62.6	69.7	104.1	117.4	188.7	336.7	761.0	1337.3	1301.3	598.1
80°	36.8	38.4	48.5	61.9	82.2	109.6	98.7	206.7	271.7	254.5	87.7
82.5°	21.9	23.5	29.0	51.7	65.0	51.7	34.5	50.1	50.9	50.1	21.9
85°	3.9	3.9	20.4	36.0	34.5	14.9	20.4	16.4	14.9	15.7	4.7
87.5°	0.0	0.0	7.8	11.0	15.7	5.5	7.8	3.9	3.9	3.9	2.3
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°	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5
2.5°	634.9	608.3	553.5	505.8	458.1	422.8	396.2	368.8	359.4	347.7	341.4
5°	645.9	593.4	484.7	397.8	324.2	267.8	231.8	209.8	195.8	185.6	183.2
7.5°	662.3	581.7	429.1	311.6	231.0	174.6	144.9	130.0	122.1	117.4	115.9
10°	681.9	571.5	374.3	242.7	162.9	122.9	106.5	100.2	97.1	95.5	94.7
12.5°	709.3	567.6	328.1	187.1	122.9	101.0	92.4	88.5	86.1	83.8	83.0
15°	745.3	569.2	285.8	144.9	101.8	90.0	83.0	79.1	76.0	73.6	73.6
17.5°	782.9	571.5	244.3	117.4	92.4	82.2	74.4	68.9	66.6	64.2	63.4
20°	818.2	570.7	204.4	100.2	83.8	73.6	65.8	60.3	56.4	54.0	54.0
22.5°	851.8	566.0	166.8	90.0	76.7	65.0	56.4	50.9	47.8	45.4	45.4
25°	887.8	556.6	136.2	82.2	68.1	57.2	48.5	43.1	40.7	38.4	38.4
27.5°	916.0	541.0	111.2	75.2	60.3	49.3	41.5	36.8	34.5	32.9	32.9
30°	946.6	518.3	92.4	67.3	52.5	42.3	35.2	31.3	29.0	28.2	28.2
32.5°	980.2	493.3	79.1	59.5	44.6	36.0	29.8	27.4	25.1	24.3	24.3
35°	1019.4	471.4	71.3	51.7	39.2	30.5	25.8	23.5	21.9	21.9	21.9
37.5°	1064.0	448.7	64.2	45.4	33.7	25.8	21.9	21.1	20.4	19.6	19.6
40°	1112.6	424.4	57.9	39.9	29.0	21.9	18.8	18.8	18.0	18.0	18.0
42.5°	1167.4	403.2	52.5	35.2	25.1	18.8	16.4	16.4	15.7	15.7	15.7
45°	1226.9	383.7	47.8	31.3	21.9	16.4	14.9	14.1	13.3	13.3	13.3
47.5°	1297.4	372.7	43.8	27.4	18.8	14.1	12.5	11.7	11.0	10.2	10.2
50°	1387.4	377.4	39.9	22.7	16.4	11.7	10.2	9.4	8.6	7.8	7.8
52.5°	1458.7	375.1	34.5	19.6	13.3	9.4	7.8	7.0	6.3	5.5	5.5
55°	1510.3	365.7	29.8	16.4	10.2	7.8	6.3	4.7	3.9	3.9	3.9
57.5°	1561.2	356.3	25.1	13.3	7.8	5.5	3.9	3.1	3.1	3.1	3.1
60°	1640.2	343.0	21.9	11.0	6.3	3.9	2.3	2.3	1.6	1.6	1.6
62.5°	1736.5	326.5	18.0	9.4	4.7	3.1	1.6	1.6	0.0	0.0	0.0
65°	1842.2	297.5	14.9	7.0	3.9	2.3	1.6	0.0	0.0	0.0	0.0
67.5°	1818.0	238.8	12.5	4.7	3.1	1.6	0.8	0.0	0.0	0.0	0.0
70°	1608.2	161.3	10.2	3.9	2.3	1.6	0.8	0.0	0.0	0.0	0.0
72.5°	1259.8	95.5	7.0	3.1	1.6	0.8	0.0	0.0	0.0	0.0	0.0
75°	806.4	47.8	4.7	2.3	1.6	0.8	0.0	0.0	0.0	0.0	0.0
77.5°	270.1	23.5	3.1	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	38.4	7.8	1.6	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	8.6	3.1	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.1	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.6	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)