

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: P381125

Luminaire Tested: **PRV-PA1B-8540-U-T2U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P381125
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-PA1B-8540-U-T2U
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(1) 85 CRI, 4000K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7740.7 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Luminous Opening: Rectangular (W 1.1' x L: 1.12' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 74
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



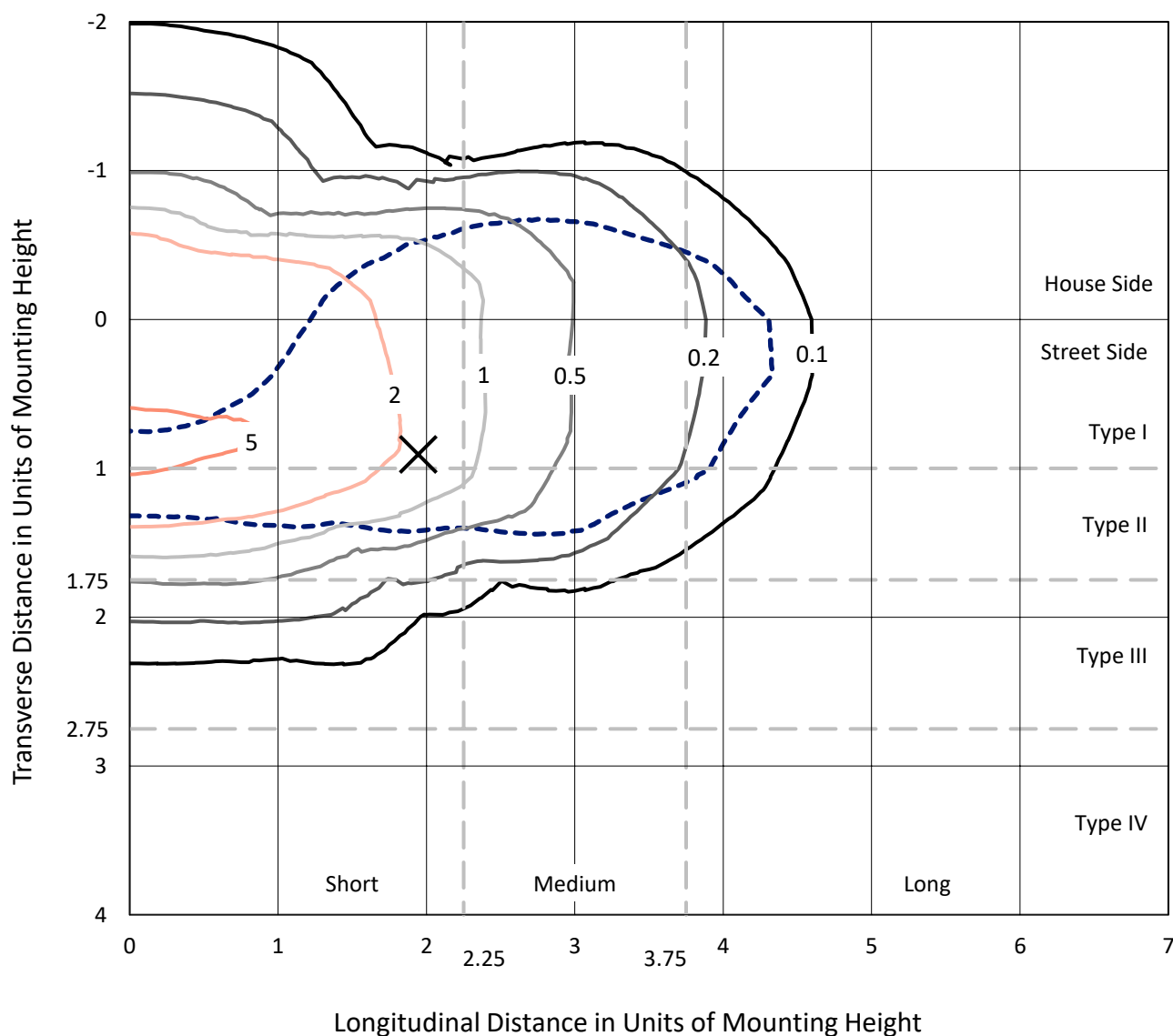
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

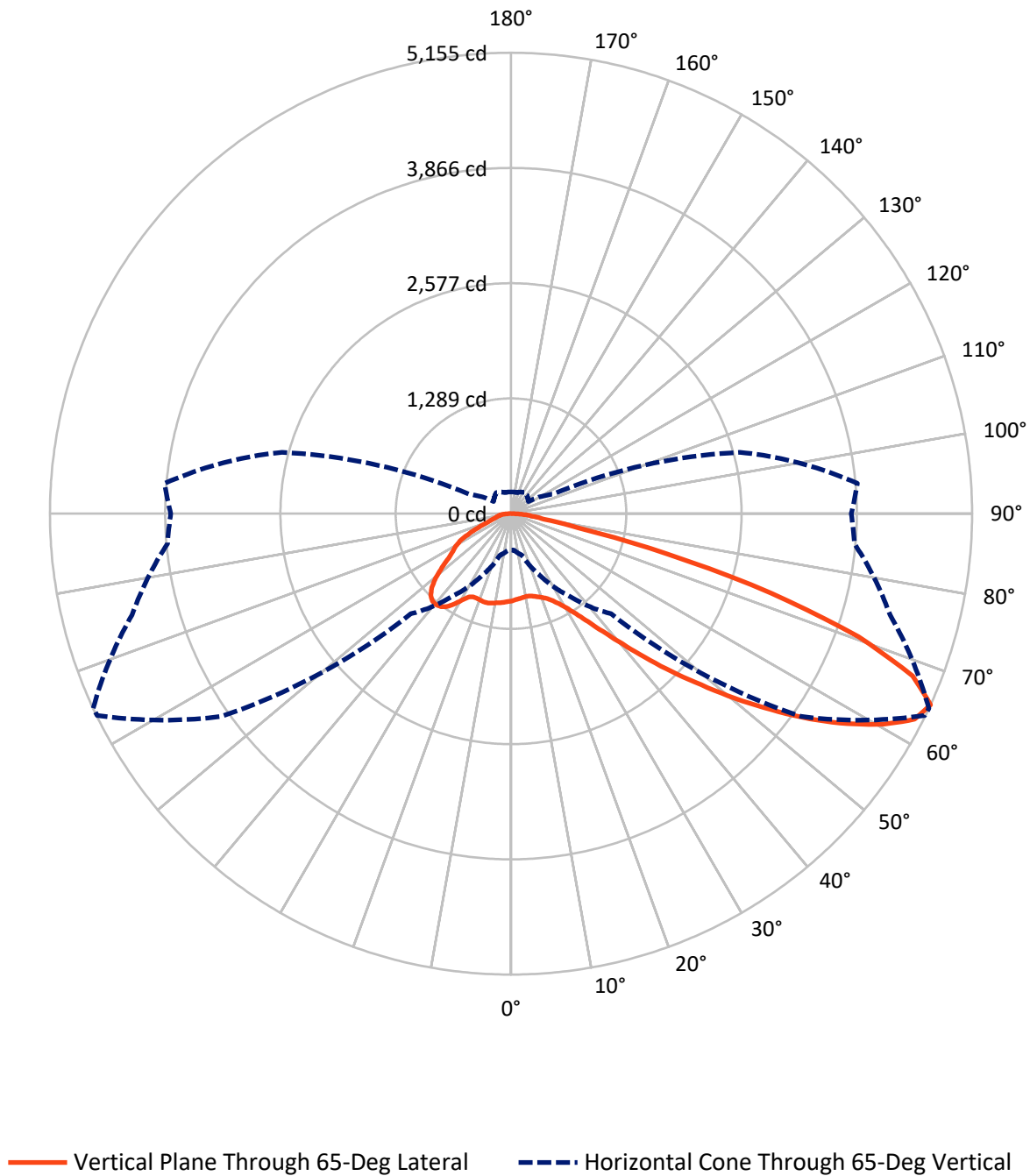


Based on 15 foot mounting height. Maximum calculated value = 5.9 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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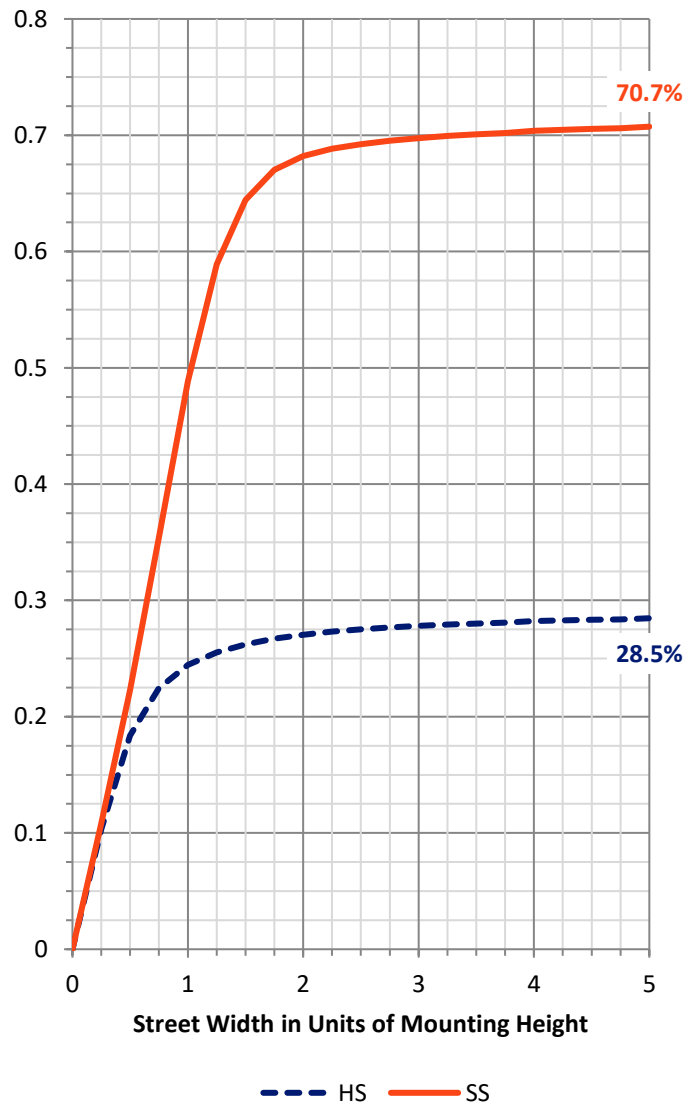
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2238.0	0.0	2238.0
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	5502.8	0.0	5502.8
	% Fixture	71.1	0.0	71.1
Total	Lumens	7740.7	0.0	7740.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.2	1.2
10°-20°	278.2	3.6
20°-30°	494.2	6.4
30°-40°	836.1	10.8
40°-50°	1455.4	18.8
50°-60°	1880.9	24.3
60°-70°	1645.8	21.3
70°-80°	895.2	11.6
80°-90°	161.8	2.1
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°	7740.7	100.0
0°-180°	7740.7	100.0

Coefficient of Utilization



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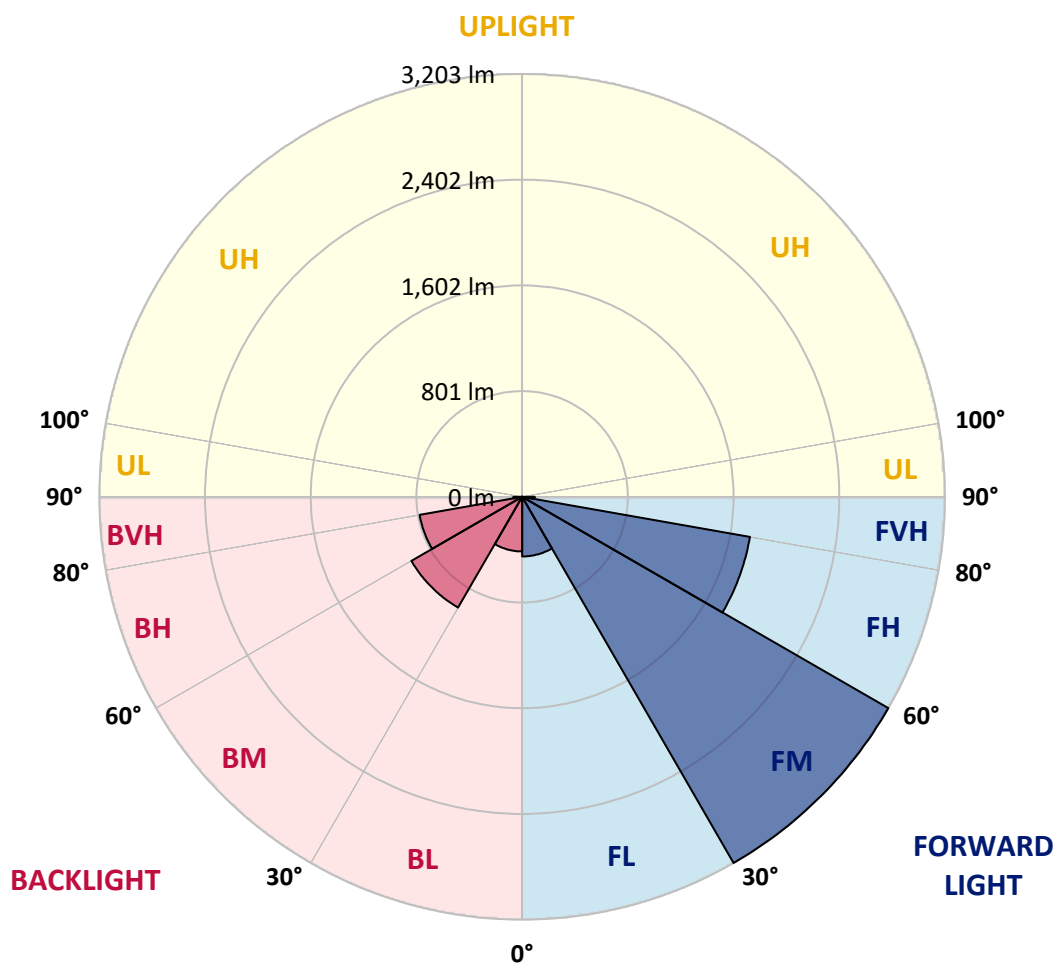
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	451.7	5.8			
FM	(30°-60°)	3203.3	41.4			
FH	(60°-80°)	1752.6	22.6			G1/1800
FVH	(80°-90°)	95.2	1.2			G1/100
BL	(0°-30°)	413.9	5.3	B1/500		
BM	(30°-60°)	969.0	12.5	B1/1000		
BH	(60°-80°)	788.5	10.2	B2/1000		G2/1000
BVH	(80°-90°)	66.6	0.9			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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	978.1	978.1	978.1	978.1	978.1	978.1	978.1	978.1	978.1	978.1	978.1
2.5°	960.8	959.8	957.8	959.8	960.8	962.9	961.8	963.9	962.9	965.9	971.0
5°	936.3	934.3	933.3	938.3	941.4	946.6	948.6	955.7	954.7	959.8	967.9
7.5°	908.8	908.8	907.8	913.9	918.0	927.2	934.3	946.6	947.6	956.7	965.9
10°	887.5	888.5	887.5	892.5	898.6	909.8	922.1	939.4	940.4	953.7	962.9
12.5°	879.3	879.3	879.3	886.4	894.6	909.8	924.1	942.4	944.5	958.8	966.9
15°	890.5	891.5	889.5	896.6	905.8	924.1	937.3	956.7	958.8	972.0	977.1
17.5°	930.2	934.3	929.2	933.3	931.2	945.6	957.8	977.1	978.1	989.3	991.4
20°	1008.7	1012.7	1004.6	999.5	981.2	980.2	985.2	1000.5	1000.5	1007.6	1002.6
22.5°	1129.9	1134.0	1119.8	1100.3	1056.6	1035.2	1023.9	1031.1	1030.1	1033.2	1019.9
25°	1290.9	1289.9	1272.5	1236.9	1166.6	1114.7	1087.1	1075.9	1075.9	1069.8	1053.5
27.5°	1490.6	1475.3	1444.8	1402.0	1304.2	1231.8	1172.7	1144.2	1139.1	1120.8	1090.2
30°	1703.6	1692.4	1648.5	1586.4	1473.3	1380.6	1282.8	1225.7	1222.7	1182.9	1137.1
32.5°	1954.2	1935.9	1887.0	1812.6	1677.0	1546.7	1424.4	1337.8	1332.7	1269.5	1206.4
35°	2276.2	2260.9	2166.1	2091.7	1917.5	1746.3	1601.7	1486.5	1482.5	1405.0	1324.5
37.5°	2662.3	2622.6	2530.9	2391.3	2207.9	2005.1	1821.7	1677.0	1671.9	1586.4	1484.5
40°	3006.7	2971.0	2889.5	2761.2	2564.5	2339.3	2090.7	1915.5	1910.4	1806.5	1678.0
42.5°	3261.4	3236.9	3184.0	3109.6	2969.0	2832.4	2434.1	2203.8	2194.7	2060.2	1900.2
45°	3409.2	3389.8	3359.2	3377.5	3375.5	3350.1	2843.7	2547.2	2517.7	2343.4	2147.8
47.5°	3373.5	3356.2	3368.4	3511.1	3707.7	3855.4	3320.5	2898.7	2859.0	2631.7	2411.6
50°	3115.7	3122.8	3187.0	3460.1	3901.3	4229.4	3849.3	3299.1	3246.2	2922.2	2662.3
52.5°	2646.0	2663.3	2819.2	3201.3	3879.8	4471.8	4327.2	3712.8	3642.4	3205.4	2890.5
55°	2102.0	2145.7	2347.5	2748.9	3600.7	4489.2	4687.8	4128.4	4051.0	3471.3	3089.2
57.5°	1554.8	1620.0	1853.4	2222.2	3065.8	4215.0	4868.1	4525.8	4432.1	3735.1	3299.1
60°	986.3	1026.0	1295.0	1730.0	2346.5	3544.6	4844.7	4864.1	4782.6	3998.1	3518.2
62.5°	629.7	649.0	784.6	1233.9	1640.4	2624.6	4589.0	5119.8	5064.8	4237.5	3726.0
65°	404.5	412.6	481.9	759.0	1116.7	1584.3	3952.2	5147.4	5154.5	4387.2	3854.4
67.5°	329.1	333.2	358.6	468.7	789.7	875.2	2753.0	4756.1	4842.7	4348.5	3810.5
70°	299.6	304.7	331.1	374.0	611.3	604.2	1332.7	3979.7	4121.3	4125.4	3616.0
72.5°	252.7	259.8	295.5	353.5	472.8	476.8	564.5	2834.5	3043.4	3687.3	3323.5
75°	210.9	215.0	245.5	311.8	400.4	381.1	396.4	1502.8	1804.4	2956.8	3012.8
77.5°	171.2	175.2	197.6	248.6	355.6	296.5	311.8	622.6	769.2	2007.1	2462.6
80°	122.2	126.4	151.8	193.6	269.0	266.9	231.3	343.3	372.9	1085.1	1599.6
82.5°	87.6	90.7	115.1	138.6	186.4	267.9	174.2	233.3	244.5	480.9	645.0
85°	59.1	59.1	79.5	91.7	120.2	169.1	140.6	157.9	165.1	228.2	174.2
87.5°	25.4	25.4	42.8	46.9	63.2	78.5	104.9	79.5	81.5	123.3	71.3
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°	978.1	978.1	978.1	978.1	978.1	978.1	978.1	978.1	978.1	978.1	978.1
2.5°	974.1	975.1	977.1	983.2	987.3	993.4	996.4	1000.5	1000.5	998.5	999.5
5°	972.0	975.1	982.2	993.4	1000.5	1011.7	1019.9	1026.0	1028.1	1026.0	1027.1
7.5°	971.0	976.1	988.3	1004.6	1014.8	1029.1	1040.3	1047.4	1052.5	1050.5	1051.5
10°	967.9	976.1	991.4	1011.7	1027.1	1041.3	1051.5	1054.5	1057.6	1055.6	1054.5
12.5°	972.0	981.2	997.5	1021.9	1039.3	1050.5	1053.5	1048.4	1041.3	1037.2	1036.2
15°	980.2	989.3	1005.6	1031.1	1046.4	1050.5	1043.3	1027.1	1010.7	1001.5	1000.5
17.5°	991.4	997.5	1010.7	1033.2	1045.4	1040.3	1026.0	1006.6	994.4	987.3	988.3
20°	998.5	998.5	1008.7	1026.0	1036.2	1032.2	1014.8	993.4	974.1	964.9	961.8
22.5°	1008.7	1003.6	1004.6	1019.9	1034.2	1028.1	991.4	953.7	926.1	916.0	914.9
25°	1036.2	1021.9	1012.7	1021.9	1055.6	1005.6	932.2	888.5	863.0	853.8	854.8
27.5°	1069.8	1050.5	1031.1	1046.4	1072.9	954.7	856.8	807.0	791.7	784.6	787.6
30°	1103.4	1078.0	1052.5	1107.5	1060.7	875.2	760.1	711.2	698.0	692.8	696.9
32.5°	1165.6	1123.8	1093.2	1189.0	1022.9	784.6	655.1	610.3	598.1	591.9	589.9
35°	1269.5	1216.5	1185.9	1260.3	970.0	683.6	559.4	527.7	514.5	501.3	499.2
37.5°	1419.3	1355.1	1327.6	1301.1	895.6	583.8	486.0	464.6	445.2	424.9	423.8
40°	1598.6	1515.0	1494.7	1319.4	792.7	490.1	435.0	414.7	390.2	370.9	371.9
42.5°	1805.4	1698.5	1654.6	1314.3	665.3	440.1	398.4	376.0	354.5	337.2	336.2
45°	2026.6	1905.3	1804.4	1278.7	539.0	405.5	376.0	349.5	328.1	308.7	306.7
47.5°	2271.1	2135.6	1943.0	1209.4	445.2	381.1	362.7	325.0	305.7	293.5	293.5
50°	2517.7	2355.7	2070.3	1104.4	390.2	362.7	343.3	311.8	296.5	286.3	286.3
52.5°	2728.5	2584.8	2175.3	979.1	355.6	347.4	330.1	305.7	289.4	280.2	279.1
55°	2933.4	2797.8	2269.1	854.8	327.1	327.1	327.1	300.6	282.2	274.0	273.0
57.5°	3137.1	3022.0	2366.9	773.3	301.6	309.8	321.0	294.5	276.1	269.0	267.9
60°	3367.4	3290.9	2479.9	716.3	279.1	291.4	312.8	287.3	265.9	259.8	258.8
62.5°	3611.9	3611.9	2582.8	635.8	258.8	276.1	300.6	278.1	256.7	251.7	250.6
65°	3803.4	3886.0	2649.0	515.5	238.4	260.8	286.3	265.9	244.5	243.5	241.5
67.5°	3825.9	3955.2	2607.3	389.2	220.1	244.5	272.0	252.7	232.3	232.3	229.3
70°	3664.9	3796.3	2476.9	291.4	206.9	228.2	253.7	236.4	217.0	219.1	214.0
72.5°	3395.9	3428.5	2152.9	230.3	191.5	210.9	231.3	218.1	200.7	200.7	193.6
75°	3041.3	2860.0	1564.0	192.5	173.2	190.5	208.9	197.6	182.4	177.3	173.2
77.5°	2420.8	2072.4	908.8	166.1	157.9	171.2	183.4	175.2	162.0	150.8	150.8
80°	1475.3	1214.5	401.4	143.7	139.6	149.8	157.9	148.8	137.6	126.4	123.3
82.5°	561.4	468.7	194.6	123.3	122.2	128.4	134.5	125.4	117.1	112.0	96.8
85°	153.9	141.6	133.5	102.9	100.9	99.8	107.0	102.9	91.7	75.4	67.3
87.5°	58.1	66.2	72.3	63.2	67.3	62.2	71.3	65.2	58.1	37.7	33.6
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)