

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: INVUE

Report Number: P676460

Luminaire Tested: **CCW-SA-2D-827-U-T3-HSS**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P676460
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2D-827-U-T3-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/
T3 distribution lens and House Side Shield
Light Source: (32) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

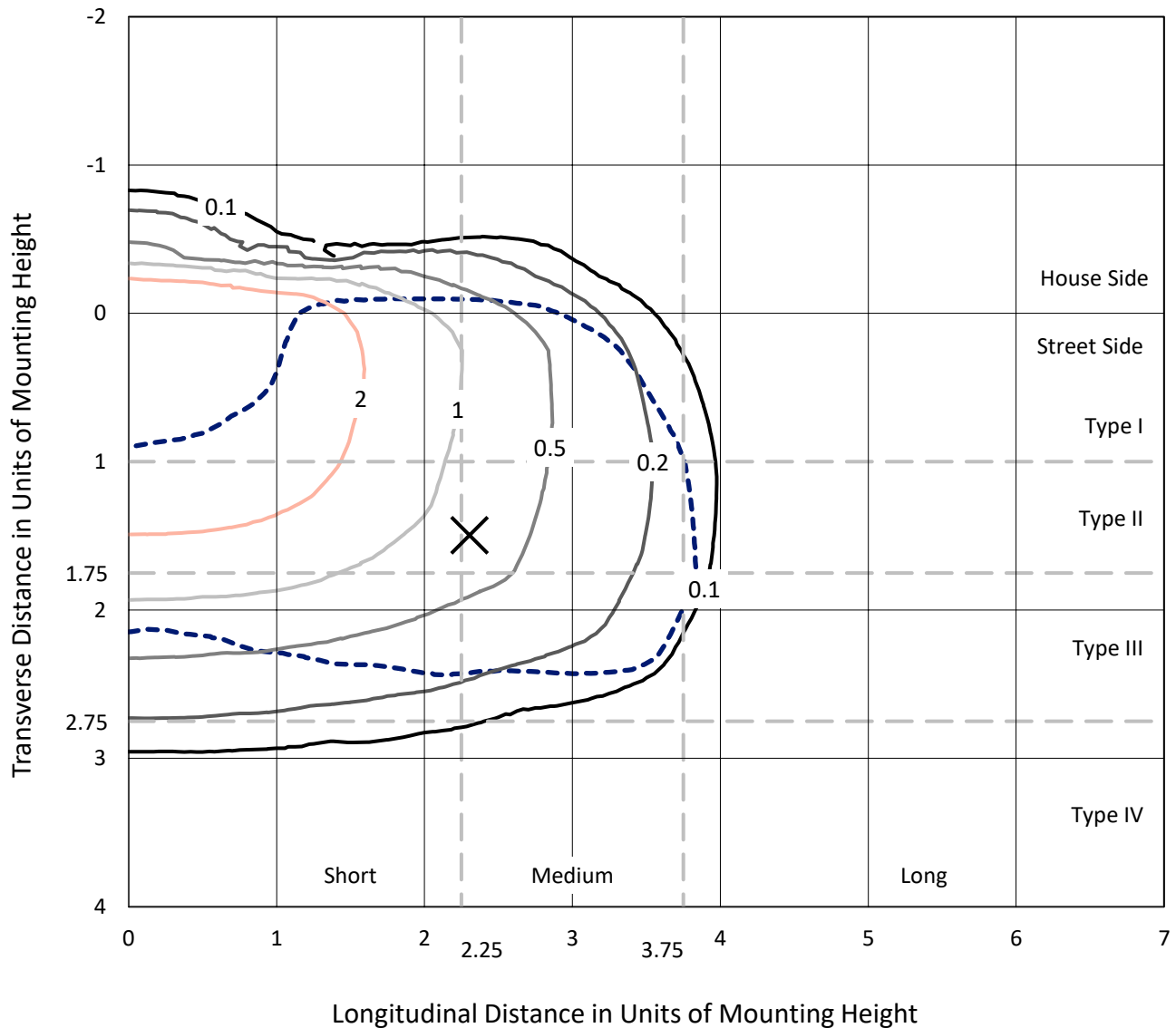
Lumens per Lamp: N/A
Luminaire Lumens: 5906.2 lumens
Efficiency: N/A
Efficacy: 73.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 80.8
Input Voltage (V): 120
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: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

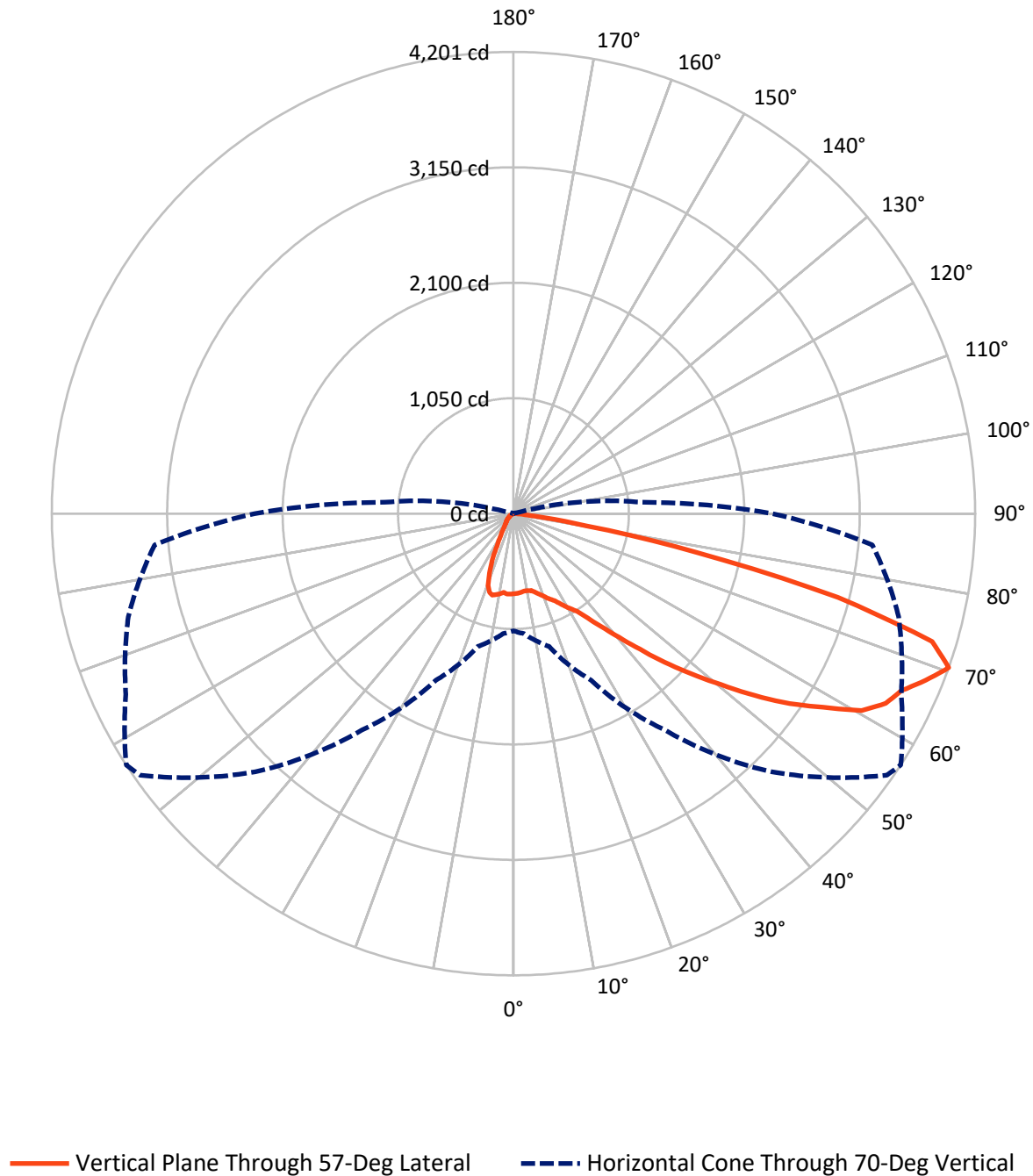
× Max cd
- - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.2 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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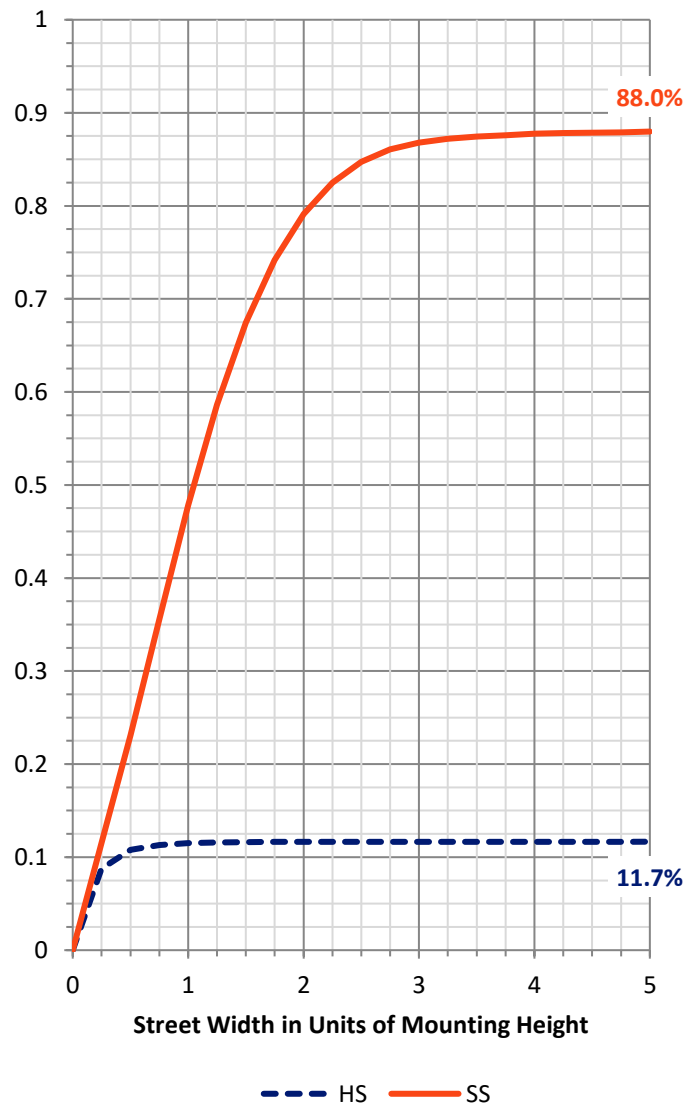
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	696.2	0.0	696.2
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	5210.0	0.0	5210.0
	% Fixture	88.2	0.0	88.2
Total	Lumens	5906.2	0.0	5906.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.1	1.2
10°-20°	190.4	3.2
20°-30°	320.7	5.4
30°-40°	548.9	9.3
40°-50°	921.7	15.6
50°-60°	1414.8	24.0
60°-70°	1633.4	27.7
70°-80°	771.6	13.1
80°-90°	36.6	0.6
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°	5906.2	100.0
0°-180°	5906.2	100.0



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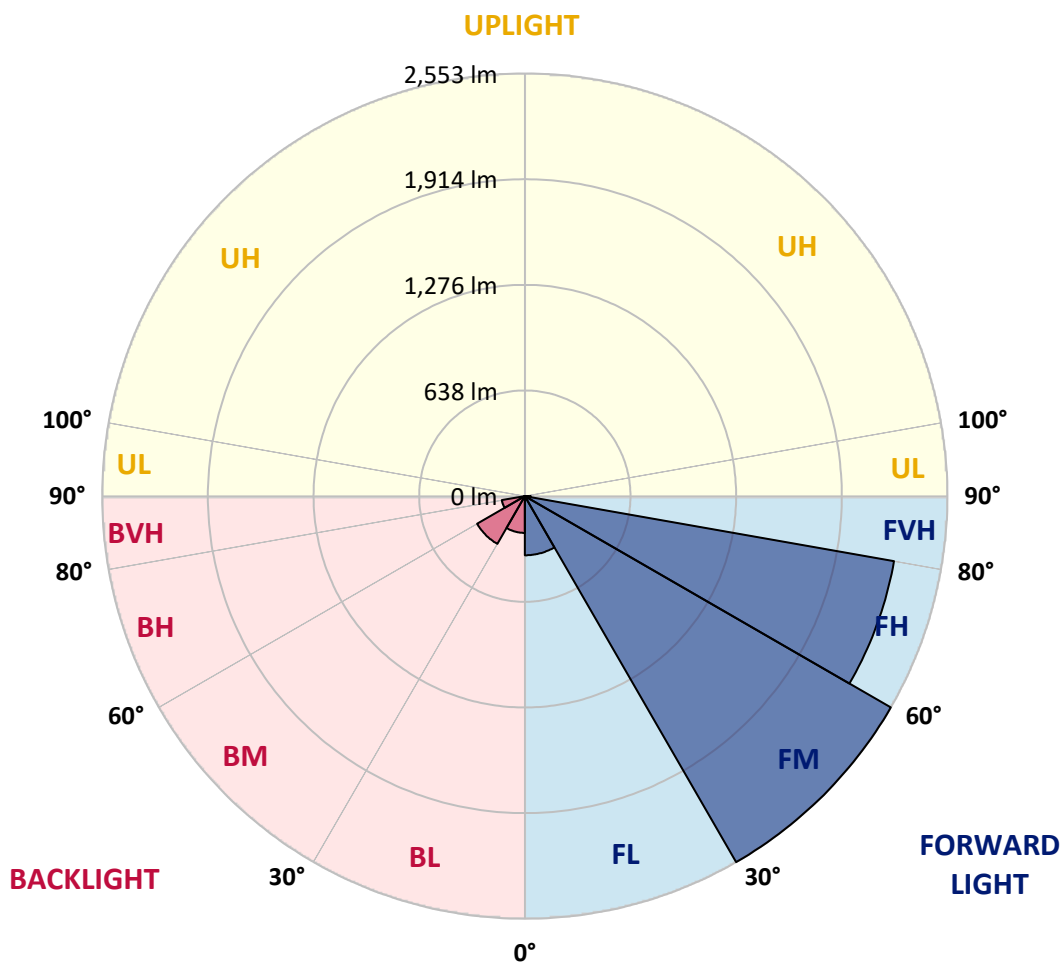
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	357.3	6.0			
FM	(30°-60°)	2552.6	43.2			
FH	(60°-80°)	2264.2	38.3			G2/5000
FVH	(80°-90°)	36.0	0.6			G1/100
BL	(0°-30°)	221.9	3.8	B1/500		
BM	(30°-60°)	332.8	5.6	B1/1000		
BH	(60°-80°)	140.8	2.4	B1/500		G1/500
BVH	(80°-90°)	0.7	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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	728.8	728.8	728.8	728.8	728.8	728.8	728.8	728.8	728.8	728.8	728.8
2.5°	718.2	713.7	718.2	724.2	718.2	722.7	721.2	725.7	719.7	719.7	724.2
5°	671.4	679.0	682.0	689.5	697.1	710.6	719.7	719.7	728.8	733.3	739.3
7.5°	654.8	642.7	654.8	660.9	668.4	691.0	704.6	710.6	722.7	739.3	748.4
10°	630.7	639.7	639.7	659.3	669.9	683.5	707.6	712.2	739.3	755.9	765.0
12.5°	629.2	629.2	636.7	650.3	671.4	697.1	727.2	718.2	746.9	777.0	792.1
15°	633.7	644.3	644.3	662.4	679.0	715.2	740.8	742.3	783.1	813.2	826.8
17.5°	653.3	648.8	654.8	665.4	691.0	725.7	768.0	772.5	819.3	860.0	879.6
20°	694.0	701.6	692.5	686.5	697.1	742.3	796.6	805.7	858.5	897.7	917.4
22.5°	846.4	840.4	804.2	761.9	743.8	765.0	823.8	844.9	906.8	953.6	970.2
25°	1018.4	1007.9	965.6	902.3	819.3	810.2	878.1	878.1	967.1	1018.4	1013.9
27.5°	1181.4	1178.4	1128.6	1062.2	944.5	879.6	921.9	938.5	1035.0	1077.3	1057.7
30°	1347.4	1350.4	1305.1	1225.1	1101.4	991.3	983.7	997.3	1086.3	1152.7	1112.0
32.5°	1540.5	1513.3	1481.6	1371.5	1258.3	1134.6	1063.7	1057.7	1143.7	1204.0	1149.7
35°	1712.5	1695.9	1661.2	1561.6	1431.9	1284.0	1184.4	1169.3	1216.1	1296.1	1237.2
37.5°	1863.4	1846.8	1801.5	1735.1	1634.0	1469.6	1329.3	1306.6	1326.2	1410.7	1339.8
40°	1993.1	1997.7	1985.6	1920.7	1827.2	1677.8	1516.3	1480.1	1463.5	1539.0	1459.0
42.5°	2086.7	2130.4	2133.4	2053.5	1978.0	1896.6	1715.5	1686.8	1647.6	1711.0	1655.2
45°	2282.8	2258.7	2273.8	2245.1	2162.1	2150.0	1944.8	1928.2	1873.9	1895.1	1836.2
47.5°	2436.7	2432.2	2460.9	2414.1	2391.5	2393.0	2205.9	2177.2	2100.3	2139.5	2073.1
50°	2525.7	2501.6	2605.7	2641.9	2637.4	2655.5	2469.9	2445.8	2371.8	2429.2	2287.3
52.5°	2546.9	2590.6	2688.7	2820.0	2875.8	2913.5	2758.1	2749.0	2669.1	2705.3	2509.1
55°	2599.7	2641.9	2699.2	2915.0	3121.7	3130.8	3041.7	3050.8	2979.9	2970.8	2720.4
57.5°	2598.2	2589.1	2747.5	2998.0	3284.7	3414.4	3366.1	3322.4	3245.4	3156.4	2856.2
60°	2503.1	2498.6	2663.0	3008.6	3373.7	3670.9	3690.5	3639.2	3446.1	3314.8	3016.1
62.5°	2314.5	2332.6	2498.6	2918.0	3458.2	3763.0	3835.4	3800.7	3560.8	3420.5	3204.7
65°	2098.7	2061.0	2254.2	2691.7	3268.1	3735.8	3892.7	3880.6	3696.6	3535.1	3378.2
67.5°	1683.8	1700.4	1848.3	2316.0	2943.7	3636.2	4027.0	4045.1	3805.2	3636.2	3431.0
70°	1066.7	1096.9	1250.8	1673.3	2403.5	3322.4	4147.7	4200.5	3891.2	3627.2	3277.1
72.5°	310.8	322.9	532.6	834.4	1531.4	2664.5	3954.6	3981.7	3723.7	3292.2	2534.8
75°	102.6	108.6	156.9	271.6	600.5	1377.5	2921.0	3049.3	2963.3	2386.9	1450.0
77.5°	67.9	70.9	86.0	129.8	227.8	431.5	1566.1	1703.4	1670.2	1118.0	467.7
80°	49.8	51.3	63.4	87.5	138.8	155.4	577.9	668.4	645.8	256.5	93.5
82.5°	31.7	31.7	46.8	61.9	87.5	76.9	167.5	185.6	181.1	98.1	36.2
85°	21.1	22.6	34.7	48.3	48.3	36.2	48.3	55.8	60.4	52.8	16.6
87.5°	6.0	7.5	19.6	33.2	19.6	18.1	16.6	18.1	21.1	28.7	9.1
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°	728.8	728.8	728.8	728.8	728.8	728.8	728.8	728.8	728.8	728.8	728.8
2.5°	728.8	734.8	733.3	736.3	731.8	727.2	731.8	731.8	731.8	727.2	724.2
5°	734.8	731.8	734.8	728.8	734.8	728.8	725.7	716.7	715.2	715.2	721.2
7.5°	743.8	746.9	733.3	733.3	719.7	722.7	715.2	716.7	713.7	709.1	706.1
10°	757.4	769.5	755.9	751.4	736.3	724.2	706.1	697.1	697.1	691.0	697.1
12.5°	795.1	790.6	783.1	768.0	749.9	725.7	682.0	638.2	602.0	574.9	588.4
15°	825.3	823.8	813.2	784.6	760.4	686.5	576.4	463.2	402.9	375.7	371.2
17.5°	872.1	867.6	849.5	811.7	731.8	568.8	395.3	300.3	241.4	227.8	223.3
20°	915.8	914.3	875.1	826.8	659.3	414.9	258.0	197.7	181.1	182.6	179.5
22.5°	962.6	955.1	908.3	808.7	525.1	276.1	184.1	176.5	170.5	169.0	172.0
25°	1015.4	988.3	941.5	768.0	386.3	190.1	173.5	167.5	161.4	159.9	159.9
27.5°	1036.5	1018.4	956.6	669.9	244.4	166.0	163.0	155.4	147.9	143.3	141.8
30°	1084.8	1054.7	971.7	526.6	173.5	152.4	147.9	138.8	128.2	120.7	120.7
32.5°	1133.1	1096.9	973.2	368.1	144.8	137.3	129.8	117.7	104.1	96.6	98.1
35°	1193.5	1143.7	956.6	238.4	129.8	120.7	105.6	92.0	80.0	73.9	73.9
37.5°	1296.1	1249.3	888.7	156.9	117.7	102.6	87.5	72.4	61.9	57.3	57.3
40°	1425.8	1365.5	795.1	123.7	104.1	87.5	69.4	55.8	49.8	45.3	45.3
42.5°	1581.2	1505.8	656.3	110.1	92.0	72.4	54.3	43.8	37.7	37.7	36.2
45°	1736.6	1612.9	514.5	101.1	81.5	60.4	42.2	34.7	31.7	30.2	30.2
47.5°	1958.4	1742.7	368.1	92.0	70.9	46.8	34.7	28.7	25.6	24.1	25.6
50°	2171.2	1864.9	261.0	83.0	58.8	37.7	28.7	25.6	22.6	21.1	21.1
52.5°	2358.3	1949.4	182.6	72.4	49.8	31.7	25.6	22.6	21.1	19.6	19.6
55°	2460.9	1920.7	125.2	61.9	40.7	27.2	22.6	19.6	18.1	16.6	16.6
57.5°	2566.5	1840.7	95.1	51.3	33.2	25.6	21.1	18.1	16.6	15.1	15.1
60°	2655.5	1781.9	73.9	40.7	27.2	21.1	18.1	15.1	13.6	12.1	10.6
62.5°	2660.0	1664.2	54.3	30.2	21.1	18.1	15.1	12.1	7.5	6.0	4.5
65°	2678.1	1540.5	39.2	22.6	15.1	13.6	10.6	6.0	3.0	0.0	0.0
67.5°	2614.8	1394.1	31.7	16.6	10.6	7.5	4.5	1.5	0.0	0.0	0.0
70°	2356.7	1176.9	24.1	12.1	7.5	4.5	1.5	0.0	0.0	0.0	0.0
72.5°	1686.8	765.0	16.6	9.1	3.0	1.5	0.0	0.0	0.0	0.0	0.0
75°	899.2	325.9	12.1	6.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	282.1	83.0	7.5	3.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	61.9	22.6	4.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	21.1	9.1	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.5	3.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.0	1.5	1.5	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)