

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: STREETWORKS

Report Number: P800130

Luminaire Tested: **ARCH2-80-727-U-T2R-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P800130
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-2)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-80-727-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 630mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7547 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 84.3
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

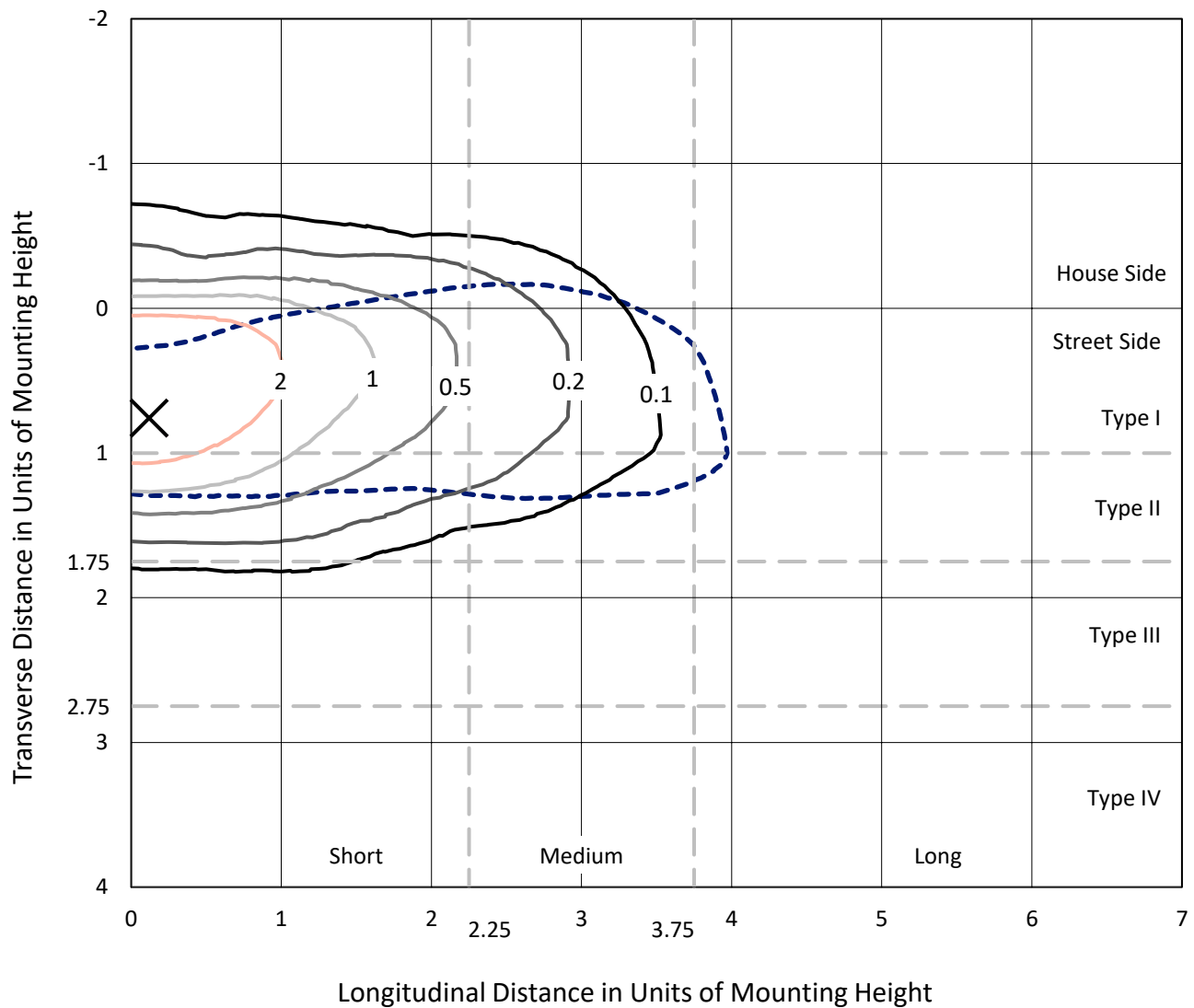


REPORT NUMBER: P800130

CATALOG NUMBER: ARCH2-80-727-U-T2R-HSS

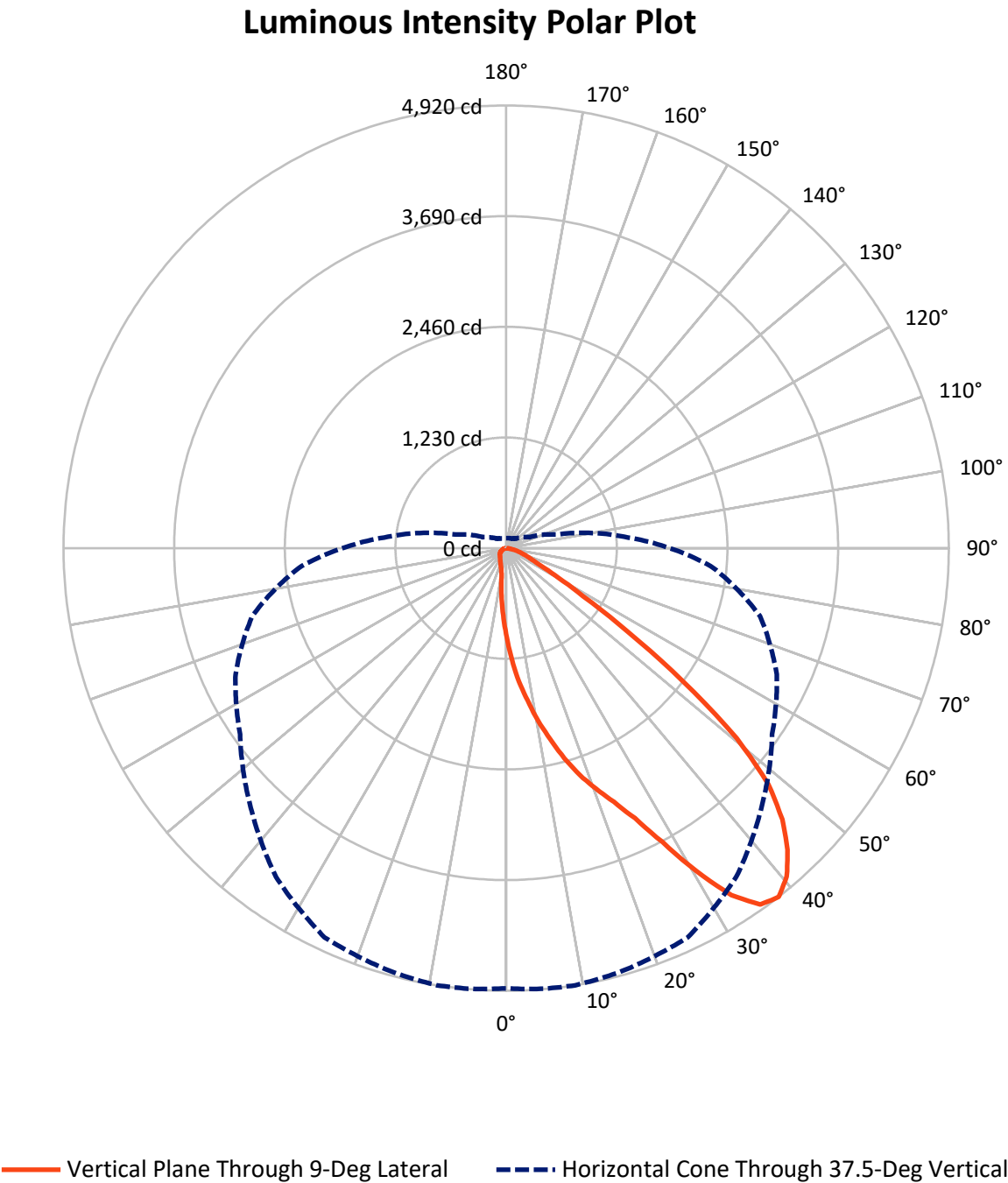
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
Type II - Short - N/A

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CATALOG NUMBER: ARCH2-80-727-U-T2R-HSS



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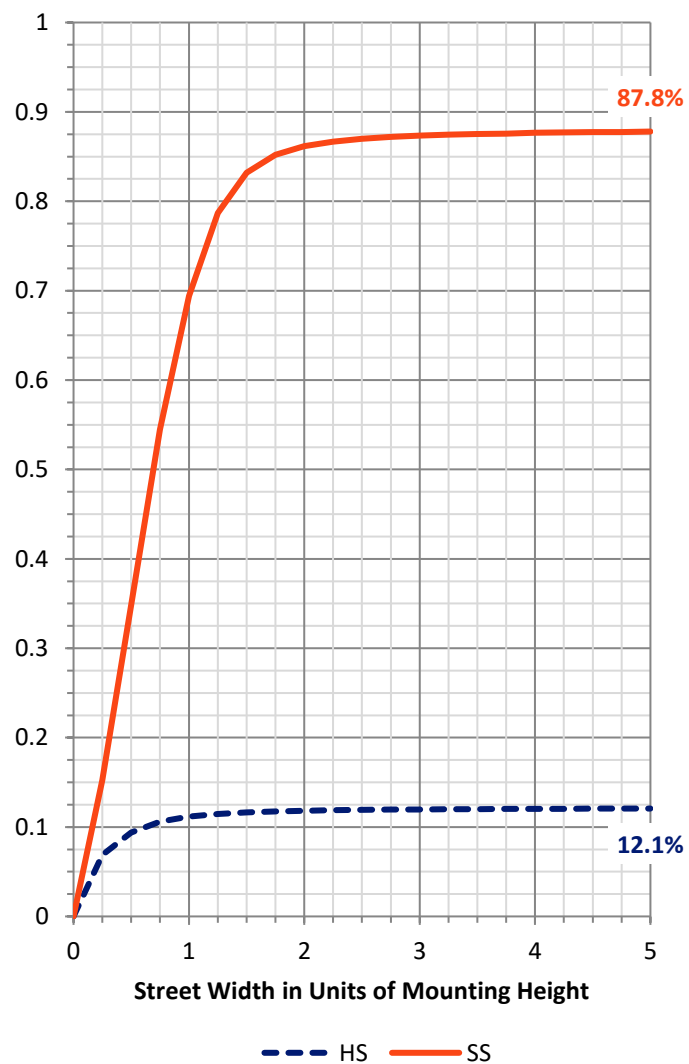
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	917.8	0.0	917.8
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	6629.1	0.0	6629.1
	% Fixture	87.8	0.0	87.8
Total	Lumens	7547.0	0.0	7547.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.3	1.3
10°-20°	348.5	4.6
20°-30°	716.1	9.5
30°-40°	1265.8	16.8
40°-50°	1681.6	22.3
50°-60°	1594.8	21.1
60°-70°	1216.7	16.1
70°-80°	589.9	7.8
80°-90°	33.2	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°	7547.0	100.0
0°-180°	7547.0	100.0

Coefficient of Utilization



REPORT NUMBER: P800130

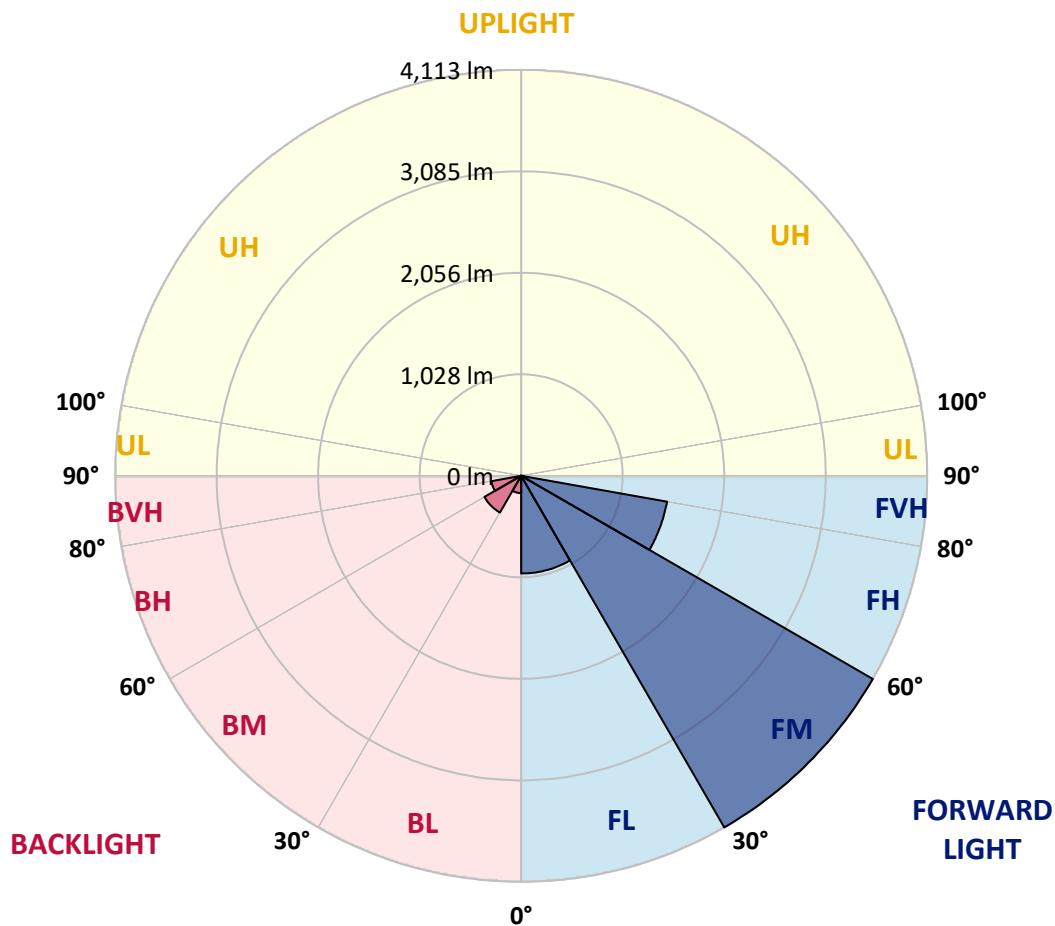
CATALOG NUMBER: ARCH2-80-727-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	989.8	13.1			
FM	(30°-60°)	4112.7	54.5			
FH	(60°-80°)	1500.3	19.9			G1/1800
FVH	(80°-90°)	26.3	0.3			G1/100
BL	(0°-30°)	175.2	2.3	B1/500		
BM	(30°-60°)	429.5	5.7	B1/1000		
BH	(60°-80°)	306.3	4.1	B1/500		G1/500
BVH	(80°-90°)	6.9	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



REPORT NUMBER: P800130

CATALOG NUMBER: ARCH2-80-727-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	997.6	997.6	997.6	997.6	997.6	997.6	997.6	997.6	997.6	997.6	997.6
2.5°	1236.2	1214.5	1239.3	1236.2	1214.5	1200.6	1157.2	1143.2	1092.1	1054.9	1022.4
5°	1490.2	1468.5	1490.2	1484.0	1453.1	1419.0	1347.7	1301.2	1209.8	1129.3	1056.5
7.5°	1700.9	1700.9	1710.2	1711.8	1674.6	1621.9	1533.6	1463.9	1335.3	1211.4	1095.2
10°	1928.6	1930.2	1950.3	1936.4	1886.8	1815.5	1704.0	1615.7	1460.8	1298.1	1132.4
12.5°	2171.8	2173.4	2179.6	2173.4	2114.5	2023.1	1888.4	1772.2	1594.0	1397.3	1183.5
15°	2415.1	2416.6	2424.3	2413.5	2348.4	2241.6	2088.2	1945.7	1735.0	1508.8	1245.5
17.5°	2642.8	2645.9	2652.1	2638.1	2570.0	2442.9	2286.5	2114.5	1885.3	1628.1	1315.2
20°	2847.3	2850.3	2855.0	2836.4	2768.2	2641.2	2472.4	2292.7	2038.6	1750.5	1391.1
22.5°	3053.3	3056.4	3064.1	3039.3	2963.4	2817.8	2652.1	2466.2	2201.3	1885.3	1479.4
25°	3316.6	3319.7	3325.9	3290.3	3186.5	3016.1	2841.1	2650.5	2377.9	2037.1	1587.8
27.5°	3702.4	3699.3	3699.3	3634.2	3456.0	3234.5	3031.6	2838.0	2568.4	2199.7	1707.1
30°	4179.5	4171.7	4167.1	4078.8	3824.7	3480.8	3226.8	3013.0	2751.2	2371.7	1835.7
32.5°	4607.0	4607.0	4597.7	4504.8	4235.2	3812.3	3434.4	3183.4	2927.8	2545.2	1968.9
35°	4859.5	4870.4	4865.7	4796.0	4599.3	4168.6	3714.7	3387.9	3113.7	2726.4	2128.5
37.5°	4893.6	4915.3	4919.9	4878.1	4774.3	4459.9	4026.1	3609.4	3318.2	2921.6	2283.4
40°	4755.7	4802.2	4802.2	4796.0	4758.8	4597.7	4287.9	3866.6	3528.9	3124.5	2439.8
42.5°	4543.5	4591.5	4585.3	4608.6	4599.3	4565.2	4435.1	4106.7	3739.5	3333.7	2582.4
45°	4266.2	4315.8	4303.4	4345.2	4363.8	4401.0	4419.6	4274.0	3947.1	3561.4	2741.9
47.5°	3821.6	3905.3	3923.9	3998.2	4075.7	4191.9	4280.2	4334.4	4140.8	3806.1	2915.4
50°	3164.8	3282.5	3319.7	3476.2	3688.4	3928.5	4071.0	4260.0	4277.1	4057.1	3102.9
52.5°	2266.3	2402.7	2460.0	2717.1	3154.0	3572.2	3829.4	4095.8	4329.7	4297.2	3305.8
55°	1465.5	1581.6	1637.4	1879.1	2460.0	3116.8	3544.3	3883.6	4300.3	4517.2	3538.2
57.5°	903.1	969.7	1006.9	1214.5	1748.9	2532.8	3171.0	3688.4	4210.5	4707.7	3779.8
60°	608.8	647.5	666.1	763.7	1188.2	1893.0	2658.3	3483.9	4092.7	4836.3	3999.8
62.5°	404.3	416.7	435.3	495.7	783.8	1329.1	2041.7	3118.3	4004.4	4844.0	4162.4
65°	312.9	319.1	326.9	353.2	483.3	929.5	1436.0	2526.6	3872.8	4679.8	4213.6
67.5°	246.3	252.5	261.8	275.7	350.1	630.5	977.5	1851.2	3603.2	4422.7	4129.9
70°	193.6	198.3	204.5	216.9	272.6	457.0	646.0	1230.0	3059.5	4177.9	3866.6
72.5°	153.4	158.0	164.2	176.6	221.5	334.6	443.0	766.8	2359.3	3879.0	3360.0
75°	120.8	123.9	128.6	141.0	178.1	260.2	300.5	458.5	1603.3	3332.1	2618.0
77.5°	60.4	74.4	85.2	97.6	130.1	179.7	199.8	254.1	677.0	1710.2	1248.6
80°	35.6	43.4	46.5	54.2	85.2	108.4	108.4	102.2	213.8	656.8	509.7
82.5°	20.1	27.9	29.4	31.0	51.1	62.0	49.6	37.2	43.4	220.0	148.7
85°	6.2	9.3	10.8	12.4	17.0	18.6	17.0	15.5	12.4	21.7	13.9
87.5°	0.0	0.0	0.0	0.0	1.5	3.1	3.1	3.1	4.6	4.6	4.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P800130

CATALOG NUMBER: ARCH2-80-727-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	997.6	997.6	997.6	997.6	997.6	997.6	997.6	997.6	997.6	997.6	997.6
2.5°	1003.8	983.7	945.0	909.3	875.2	850.5	827.2	805.5	790.0	777.6	776.1
5°	1017.8	977.5	903.1	833.4	769.9	717.2	672.3	636.7	610.3	591.8	590.2
7.5°	1036.3	974.4	861.3	757.5	663.0	587.1	522.0	474.0	439.9	426.0	415.2
10°	1051.8	971.3	819.5	681.6	557.7	461.6	384.2	336.2	311.4	302.1	297.4
12.5°	1078.2	974.4	783.8	611.9	466.3	353.2	294.3	268.0	257.2	249.4	247.9
15°	1116.9	988.3	749.8	543.7	373.3	285.0	251.0	233.9	223.1	221.5	220.0
17.5°	1155.6	1000.7	718.8	474.0	309.8	247.9	224.6	210.7	202.9	201.4	201.4
20°	1200.6	1016.2	684.7	407.4	264.9	223.1	204.5	193.6	184.3	182.8	182.8
22.5°	1253.2	1037.9	652.2	348.5	235.5	204.5	189.0	176.6	168.9	167.3	167.3
25°	1324.5	1070.4	625.8	305.2	215.3	189.0	175.0	164.2	158.0	154.9	154.9
27.5°	1403.5	1115.4	607.2	278.8	201.4	176.6	162.7	153.4	147.2	144.1	144.1
30°	1491.8	1164.9	594.9	268.0	193.6	165.8	153.4	144.1	136.3	134.8	134.8
32.5°	1589.4	1222.2	587.1	269.5	192.1	158.0	144.1	134.8	128.6	125.5	125.5
35°	1697.8	1285.8	582.5	278.8	195.2	151.8	136.3	127.0	120.8	117.7	117.7
37.5°	1818.6	1360.1	582.5	288.1	202.9	150.3	128.6	119.3	114.6	111.5	111.5
40°	1931.7	1439.1	588.7	299.0	210.7	150.3	122.4	114.6	108.4	105.3	105.3
42.5°	2020.0	1484.0	593.3	309.8	215.3	148.7	116.2	108.4	103.8	100.7	100.7
45°	2120.7	1532.1	584.0	314.5	215.3	145.6	111.5	103.8	99.1	96.0	96.0
47.5°	2232.3	1590.9	582.5	317.6	210.7	139.4	106.9	99.1	96.0	92.9	92.9
50°	2345.3	1656.0	585.6	316.0	204.5	130.1	100.7	96.0	91.4	88.3	88.3
52.5°	2473.9	1724.2	591.8	312.9	190.5	119.3	96.0	91.4	86.7	83.7	82.1
55°	2616.4	1798.5	604.2	306.7	172.0	108.4	91.4	86.7	80.6	77.5	75.9
57.5°	2780.6	1889.9	618.1	294.3	151.8	99.1	86.7	80.6	71.3	66.6	65.1
60°	2937.1	1993.7	633.6	264.9	131.7	89.8	82.1	72.8	63.5	60.4	58.9
62.5°	3084.3	2095.9	641.3	212.2	111.5	82.1	77.5	66.6	57.3	54.2	52.7
65°	3178.8	2207.5	624.3	144.1	91.4	75.9	71.3	62.0	52.7	48.0	48.0
67.5°	3185.0	2260.1	565.4	94.5	74.4	68.2	65.1	55.8	46.5	43.4	41.8
70°	3028.5	2181.1	432.2	74.4	62.0	58.9	58.9	49.6	40.3	37.2	35.6
72.5°	2669.1	1931.7	275.7	60.4	52.7	49.6	49.6	41.8	35.6	31.0	29.4
75°	2106.8	1490.2	147.2	49.6	43.4	41.8	38.7	34.1	29.4	26.3	24.8
77.5°	968.2	656.8	68.2	35.6	32.5	32.5	29.4	24.8	23.2	20.1	20.1
80°	382.6	223.1	34.1	23.2	21.7	21.7	21.7	17.0	17.0	13.9	12.4
82.5°	105.3	46.5	17.0	13.9	13.9	13.9	12.4	10.8	10.8	9.3	9.3
85°	10.8	7.7	7.7	7.7	7.7	6.2	6.2	4.6	3.1	3.1	3.1
87.5°	4.6	4.6	4.6	4.6	4.6	3.1	1.5	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)