

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: P1211636

Luminaire Tested: **ARCH4-70-722-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211636
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-70-722-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 605mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7805 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 73.8
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

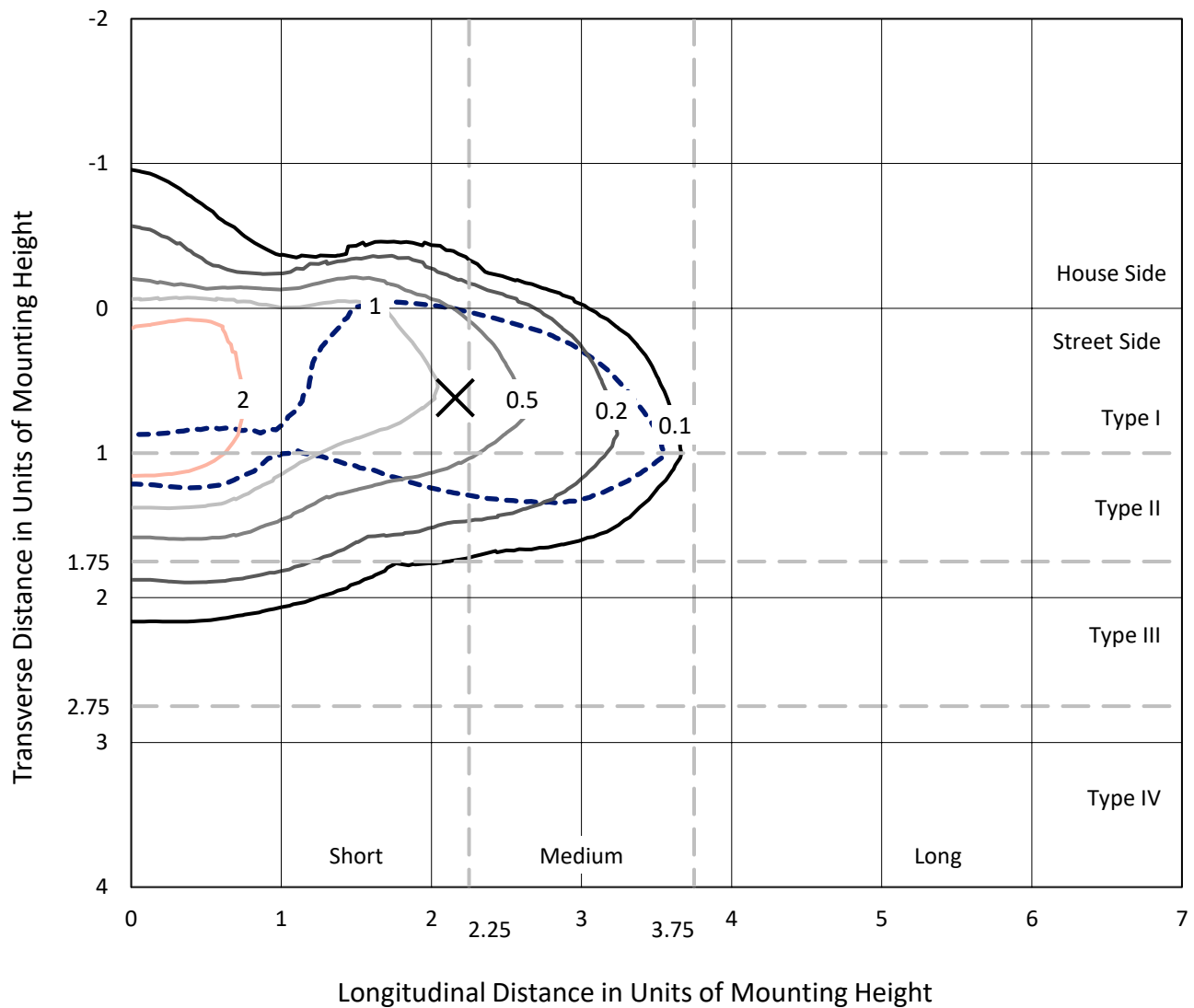


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Iso-Footcandle Lines of Horizontal Illumination

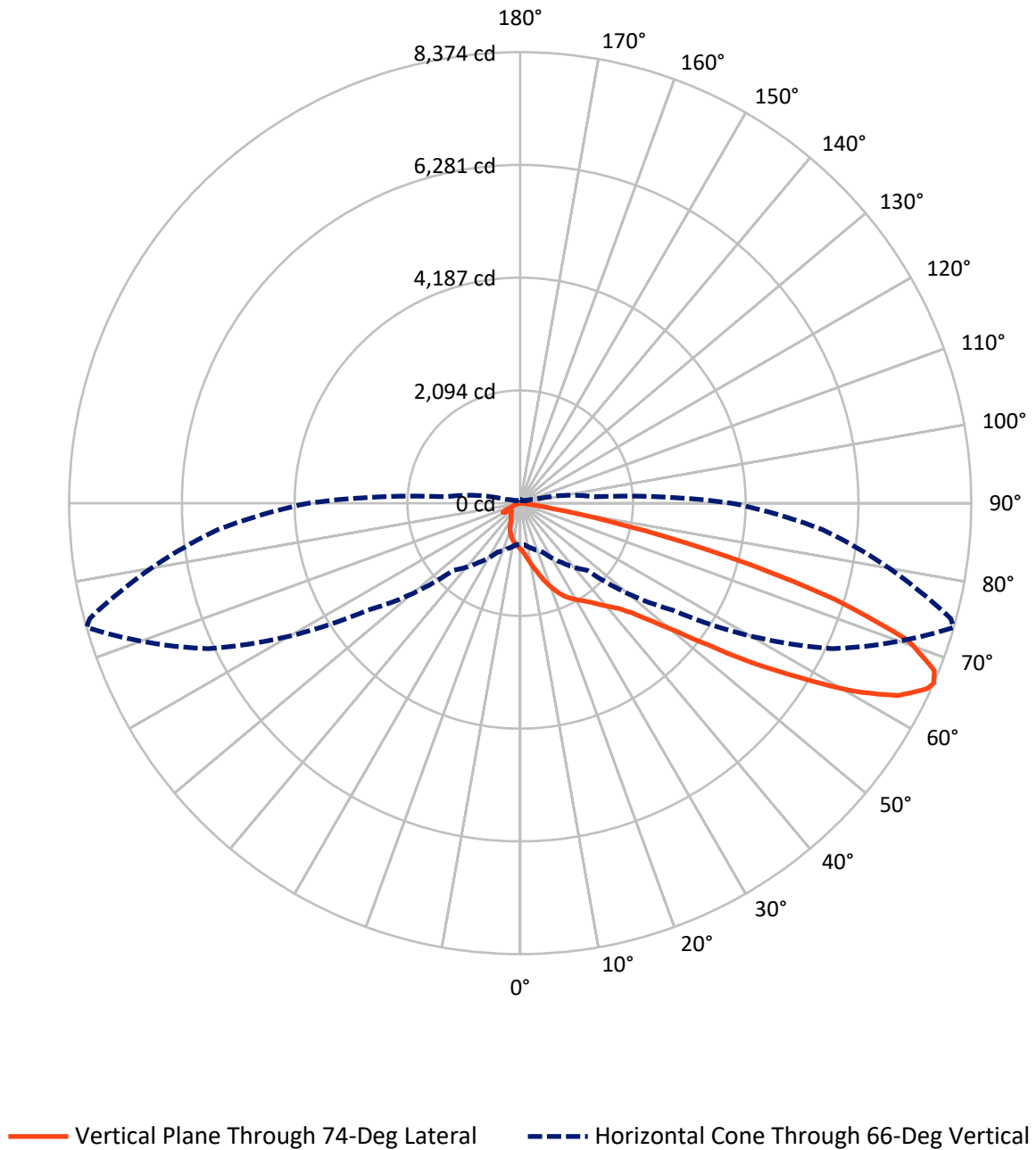
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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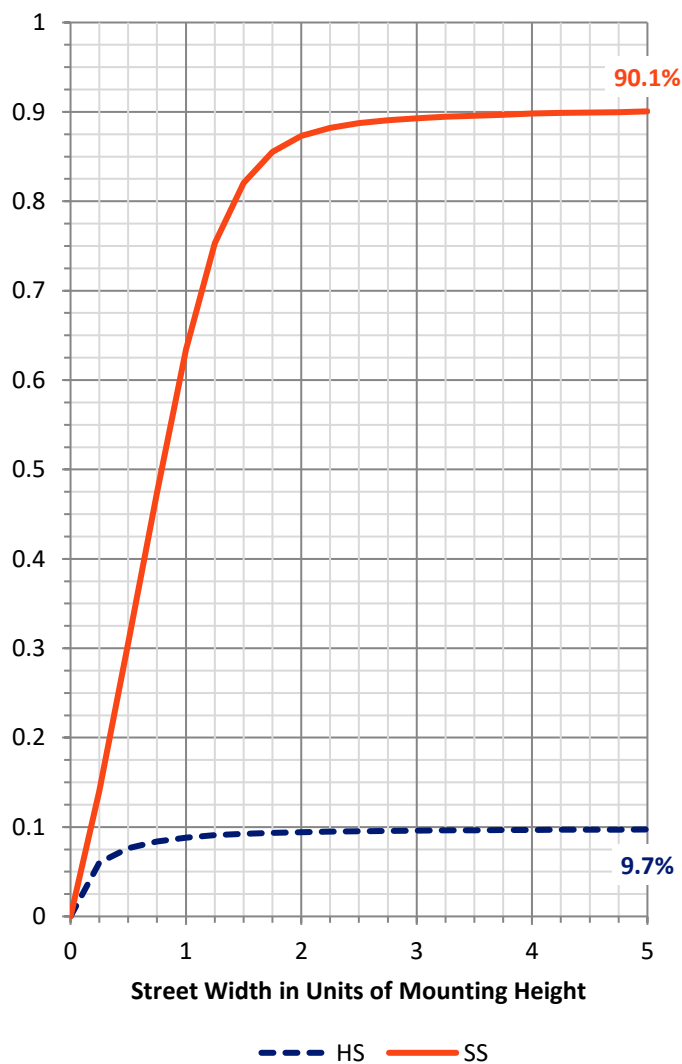
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	765.1	0.0	765.1
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	7039.9	0.0	7039.9
	% Fixture	90.2	0.0	90.2
Total	Lumens	7805.0	0.0	7805.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.2	1.1
10°-20°	266.6	3.4
20°-30°	508.8	6.5
30°-40°	891.8	11.4
40°-50°	1529.1	19.6
50°-60°	1988.8	25.5
60°-70°	1800.3	23.1
70°-80°	694.6	8.9
80°-90°	41.8	0.5
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°	7805.0	100.0
0°-180°	7805.0	100.0

Coefficient of Utilization



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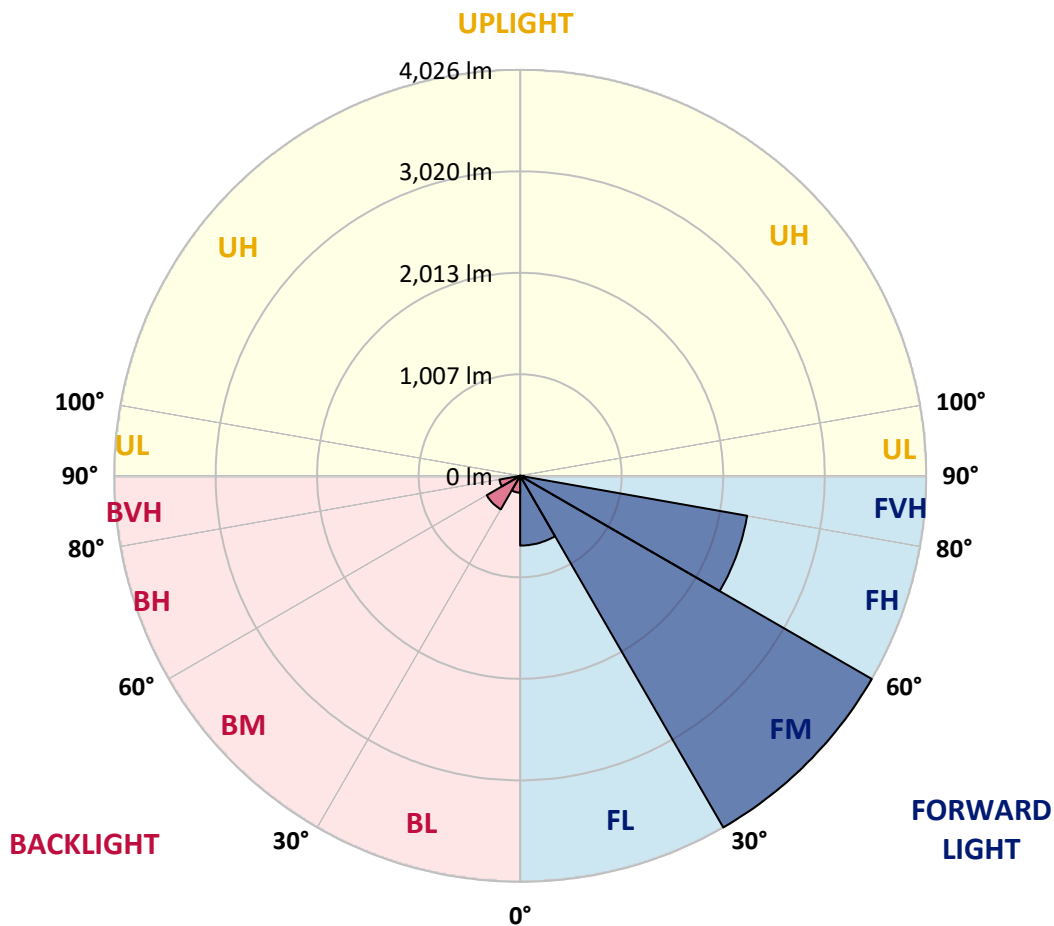
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	691.6	8.9			
FM	(30°-60°)	4026.2	51.6			
FH	(60°-80°)	2285.8	29.3			G2/5000
FVH	(80°-90°)	36.2	0.5			G1/100
BL	(0°-30°)	166.9	2.1	B1/500		
BM	(30°-60°)	383.5	4.9	B1/1000		
BH	(60°-80°)	209.2	2.7	B1/500		G1/500
BVH	(80°-90°)	5.6	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-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	852.0	852.0	852.0	852.0	852.0	852.0	852.0	852.0	852.0	852.0	852.0
2.5°	1022.9	1014.5	999.1	997.7	985.1	969.7	943.1	915.0	895.4	892.6	868.8
5°	1224.7	1220.5	1205.1	1195.3	1171.5	1135.0	1073.4	1011.7	959.9	954.3	901.0
7.5°	1278.0	1280.8	1283.6	1293.4	1285.0	1268.2	1221.9	1135.0	1053.8	1041.2	948.7
10°	1286.4	1283.6	1283.6	1296.2	1320.0	1343.8	1338.2	1264.0	1158.9	1143.5	1014.5
12.5°	1377.5	1381.7	1371.9	1366.3	1362.1	1374.7	1416.7	1384.5	1269.6	1257.0	1094.4
15°	1495.2	1493.8	1479.8	1479.8	1467.1	1446.1	1472.8	1496.6	1402.7	1387.3	1185.5
17.5°	1580.7	1586.3	1584.9	1593.3	1589.1	1561.0	1547.0	1596.1	1540.0	1520.4	1289.2
20°	1649.3	1664.7	1670.3	1697.0	1709.6	1690.0	1653.5	1684.3	1671.7	1653.5	1394.3
22.5°	1722.2	1734.8	1744.6	1790.8	1825.9	1821.7	1775.4	1768.4	1799.3	1782.4	1498.0
25°	1795.1	1800.7	1830.1	1886.1	1942.2	1956.2	1908.6	1853.9	1914.2	1898.7	1590.5
27.5°	1874.9	1877.7	1912.8	1981.4	2059.9	2089.3	2051.5	1950.6	2002.4	2002.4	1674.5
30°	2020.7	2048.7	2062.7	2124.4	2193.0	2233.7	2188.8	2052.9	2080.9	2093.5	1762.8
32.5°	2334.5	2338.7	2334.5	2361.2	2375.2	2399.0	2347.2	2167.8	2160.8	2174.8	1849.7
35°	2813.8	2797.0	2752.1	2712.9	2631.6	2586.8	2519.5	2314.9	2258.9	2278.5	1935.2
37.5°	3395.3	3371.5	3269.2	3148.7	2974.9	2795.6	2711.5	2494.3	2383.6	2408.8	2027.7
40°	3950.2	3934.8	3812.9	3664.4	3367.3	3060.4	2882.4	2645.6	2522.3	2532.1	2121.6
42.5°	4407.1	4404.2	4302.0	4146.4	3765.3	3346.3	3084.2	2794.2	2668.1	2683.5	2219.6
45°	4753.2	4726.5	4650.9	4538.8	4150.6	3643.3	3328.1	3019.8	2902.1	2920.3	2366.8
47.5°	4753.2	4757.4	4806.4	4795.2	4419.7	3922.2	3594.3	3304.2	3248.2	3265.0	2609.2
50°	4366.4	4405.7	4624.3	4807.8	4559.8	4139.4	3881.6	3660.2	3717.6	3742.8	3032.4
52.5°	3601.3	3667.2	4046.9	4465.9	4456.1	4248.7	4178.6	4112.8	4370.6	4415.5	3657.4
55°	2736.7	2780.2	3274.8	3825.5	4004.9	4159.0	4437.9	4687.3	5235.2	5225.4	4292.1
57.5°	2044.5	2085.1	2511.1	3122.1	3358.9	3770.9	4571.0	5344.5	6092.8	6130.6	4887.7
60°	1503.6	1534.4	1897.3	2399.0	2740.9	3176.7	4517.8	5991.9	7080.7	7037.3	5413.2
62.5°	1112.6	1129.4	1391.5	1718.0	2172.0	2588.2	4182.8	6434.7	7869.6	7781.4	5706.0
65°	860.4	866.0	1001.9	1175.7	1579.3	2012.2	3684.0	6502.0	8305.4	8211.5	5700.4
66°	766.5	770.7	870.2	1004.7	1343.8	1761.4	3465.4	6394.1	8374.1	8274.6	5630.4
67.5°	643.2	640.4	699.2	787.5	1008.9	1359.2	3077.2	6078.8	8292.8	8242.4	5406.2
70°	476.4	477.8	507.3	528.3	589.9	752.5	2222.4	5273.0	7642.6	7639.8	4791.0
72.5°	353.1	357.3	379.7	384.0	368.5	407.8	1280.8	4194.1	6113.8	6115.2	3581.7
75°	264.8	271.8	278.9	281.7	267.6	257.8	578.7	2822.2	4021.7	3992.3	2027.7
77.5°	201.8	204.6	210.2	206.0	203.2	178.0	241.0	1376.1	1985.6	1809.1	657.2
80°	147.1	147.1	152.7	147.1	145.7	127.5	131.7	441.4	582.9	484.8	141.5
82.5°	92.5	91.1	95.3	93.9	91.1	81.3	77.1	123.3	134.5	120.5	68.7
85°	51.8	50.4	49.0	47.6	43.4	36.4	42.0	46.2	61.7	63.1	49.0
87.5°	18.2	18.2	16.8	15.4	12.6	12.6	15.4	15.4	22.4	22.4	25.2
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°	852.0	852.0	852.0	852.0	852.0	852.0	852.0	852.0	852.0	852.0	852.0
2.5°	857.6	842.2	819.8	790.3	769.3	748.3	725.9	713.3	695.0	690.8	696.4
5°	873.0	845.0	788.9	727.3	674.0	626.4	581.5	554.9	528.3	518.5	522.7
7.5°	905.2	857.6	762.3	662.8	574.5	503.1	449.8	419.0	395.2	385.4	388.2
10°	952.9	880.0	737.1	589.9	476.4	400.8	355.9	336.3	322.3	316.7	318.1
12.5°	1010.3	912.2	704.8	517.1	392.4	326.5	305.5	301.3	298.5	295.7	297.1
15°	1074.8	940.3	667.0	445.6	326.5	290.1	283.1	281.7	280.3	280.3	280.3
17.5°	1142.0	965.5	625.0	378.3	284.5	267.6	263.4	263.4	263.4	264.8	264.8
20°	1205.1	985.1	575.9	318.1	260.6	246.6	243.8	243.8	245.2	246.6	246.6
22.5°	1266.8	993.5	518.5	276.1	241.0	228.4	224.2	224.2	224.2	225.6	225.6
25°	1320.0	993.5	461.0	249.4	224.2	211.6	206.0	204.6	206.0	206.0	206.0
27.5°	1364.9	989.3	405.0	231.2	207.4	194.8	189.2	187.8	190.6	192.0	192.0
30°	1412.5	983.7	360.1	214.4	193.4	180.8	175.2	175.2	179.4	185.0	185.0
32.5°	1458.7	987.9	325.1	200.4	179.4	169.6	164.0	165.4	173.8	182.2	182.2
35°	1507.8	996.3	304.1	190.6	169.6	159.7	155.5	159.7	168.2	176.6	176.6
37.5°	1556.8	1006.1	291.5	182.2	161.1	151.3	148.5	154.1	164.0	172.4	173.8
40°	1608.7	1014.5	277.5	173.8	155.5	144.3	142.9	148.5	161.1	169.6	171.0
42.5°	1673.1	1031.3	260.6	166.8	149.9	135.9	137.3	141.5	154.1	166.8	168.2
45°	1799.3	1084.6	243.8	159.7	142.9	131.7	128.9	131.7	145.7	159.7	162.5
47.5°	2036.1	1205.1	225.6	152.7	135.9	128.9	117.7	120.5	133.1	148.5	149.9
50°	2490.1	1461.5	215.8	145.7	130.3	119.1	106.5	106.5	116.3	130.3	130.3
52.5°	3197.7	1921.2	221.4	140.1	123.3	109.3	96.7	95.3	100.9	110.7	110.7
55°	3961.4	2425.6	242.4	134.5	114.9	103.7	89.7	82.7	86.9	92.5	92.5
57.5°	4566.8	2679.3	299.9	131.7	105.1	99.5	81.3	71.5	75.7	81.3	81.3
60°	4833.0	2530.7	364.3	134.5	98.1	92.5	72.9	63.1	70.1	75.7	77.1
62.5°	4617.2	2083.7	391.0	127.5	88.3	82.7	71.5	58.9	67.3	71.5	72.9
65°	4150.6	1583.5	305.5	110.7	81.3	71.5	64.5	56.1	63.1	67.3	67.3
66°	3929.2	1380.3	260.6	102.3	78.5	67.3	61.7	56.1	61.7	64.5	65.9
67.5°	3585.9	1088.8	193.4	89.7	72.9	61.7	57.5	53.2	58.9	61.7	61.7
70°	2804.0	648.8	116.3	70.1	63.1	54.7	51.8	49.0	53.2	54.7	54.7
72.5°	1755.8	308.3	74.3	51.8	53.2	51.8	43.4	46.2	47.6	49.0	49.0
75°	850.6	121.9	50.4	37.8	43.4	49.0	35.0	40.6	42.0	44.8	43.4
77.5°	236.8	58.9	32.2	28.0	37.8	37.8	26.6	32.2	37.8	47.6	43.4
80°	68.7	37.8	21.0	21.0	26.6	26.6	18.2	22.4	25.2	28.0	29.4
82.5°	47.6	25.2	14.0	15.4	15.4	16.8	11.2	11.2	14.0	14.0	15.4
85°	37.8	11.2	8.4	9.8	7.0	8.4	5.6	5.6	7.0	5.6	5.6
87.5°	15.4	5.6	5.6	5.6	4.2	4.2	2.8	1.4	1.4	1.4	1.4
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)