

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: P1210118

Luminaire Tested: **ARCH2-110-740-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210118
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-110-740-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9888 lumens
Efficiency: N/A
Efficacy: 90.3 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

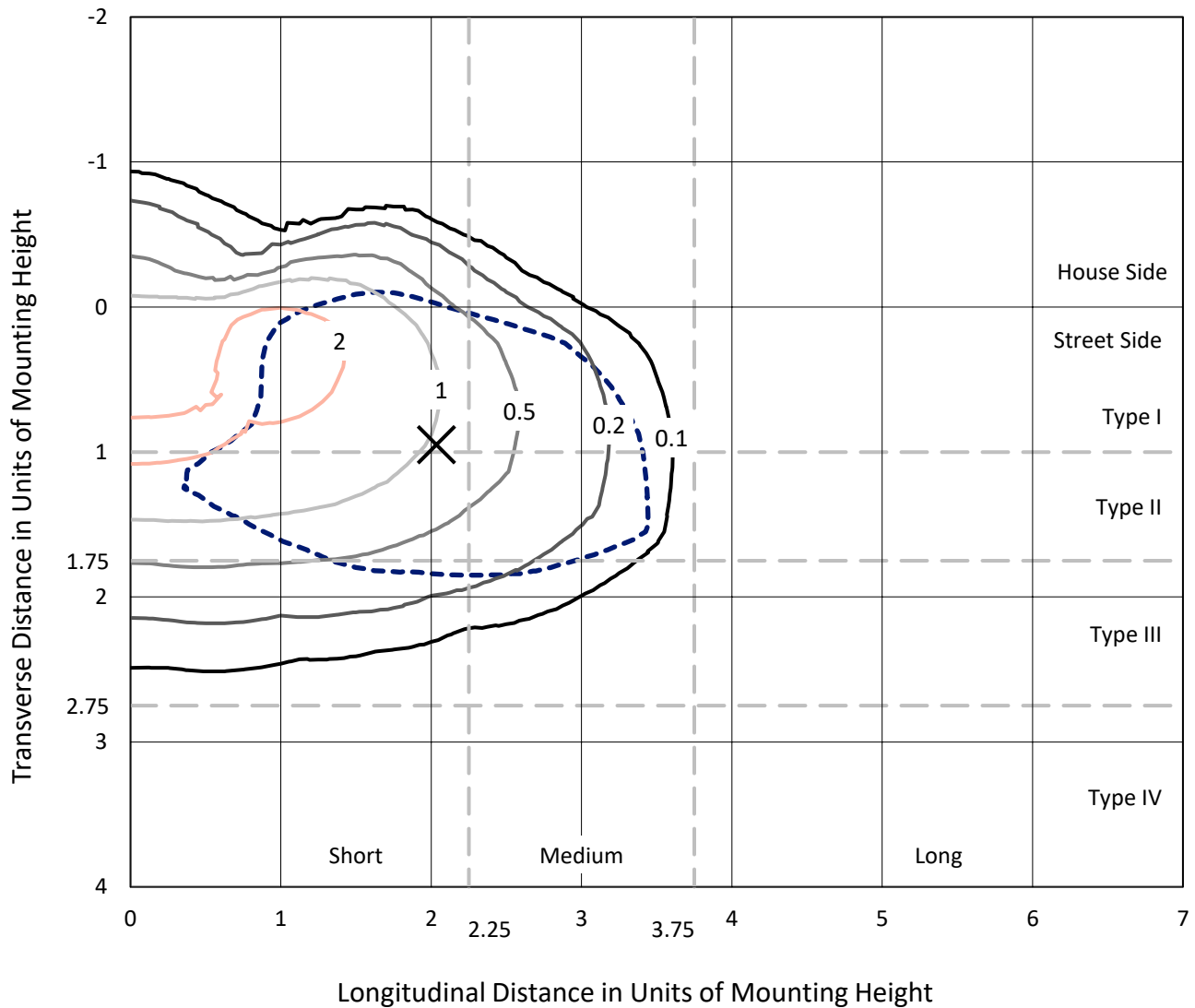
Input Watts (W): 109.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

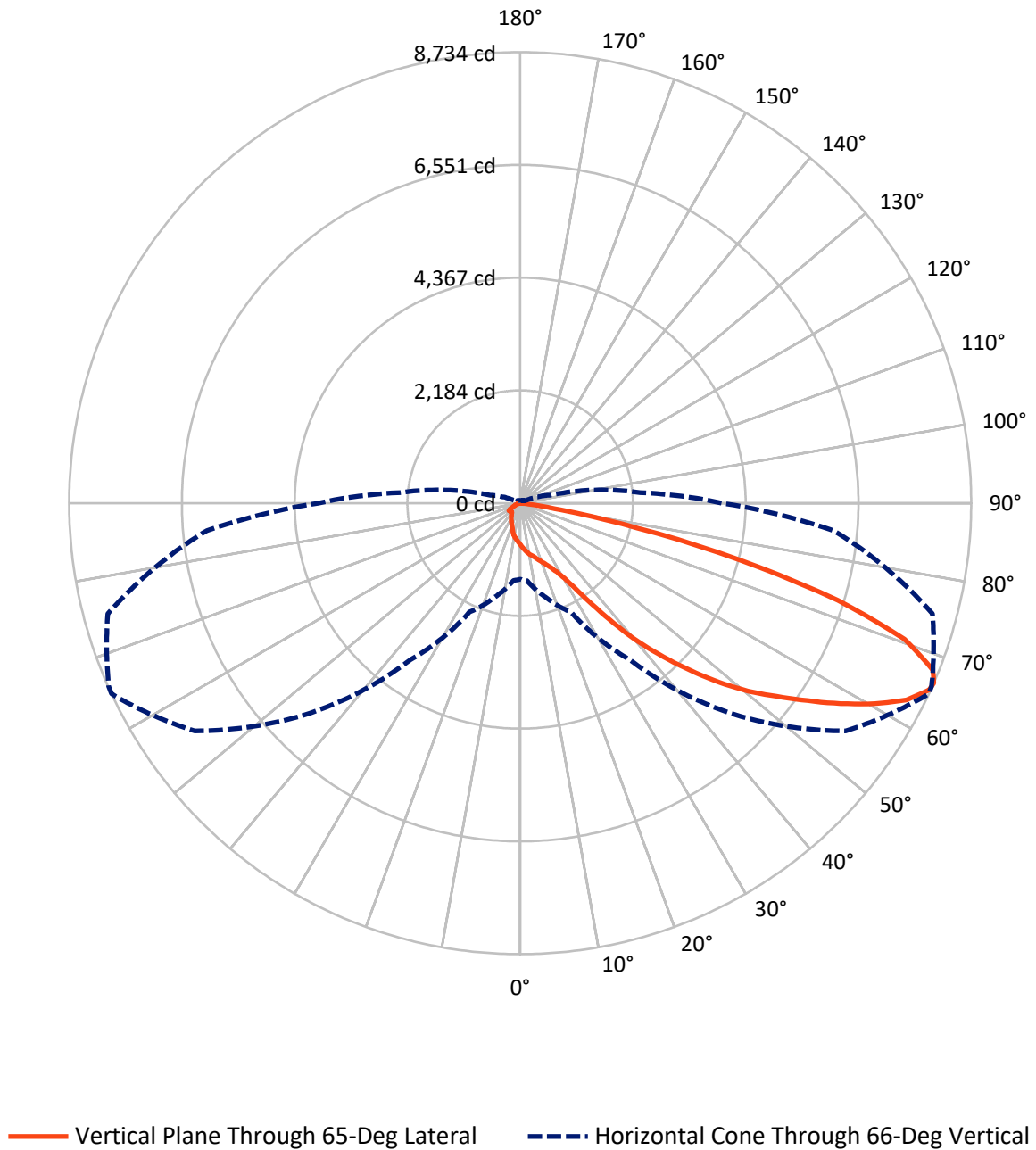
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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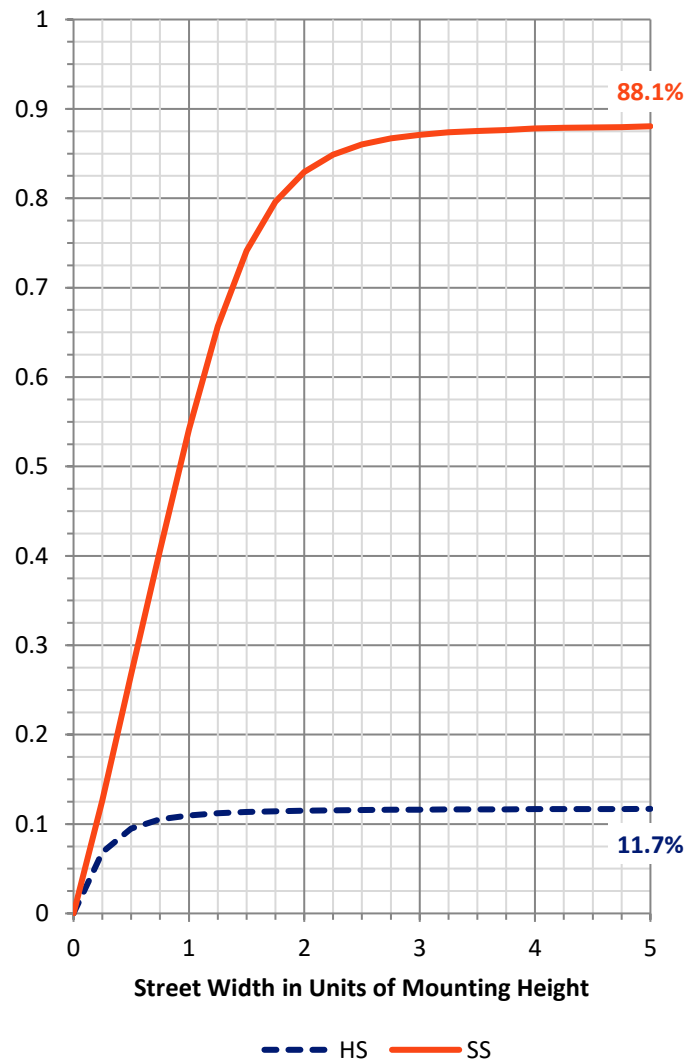
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1167.0	0.0	1167.0
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	8721.0	0.0	8721.0
	% Fixture	88.2	0.0	88.2
Total	Lumens	9888.0	0.0	9888.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.4	0.8
10°-20°	226.1	2.3
20°-30°	413.8	4.2
30°-40°	840.8	8.5
40°-50°	1775.6	18.0
50°-60°	2729.7	27.6
60°-70°	2747.6	27.8
70°-80°	1026.7	10.4
80°-90°	51.3	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°	9888.0	100.0
0°-180°	9888.0	100.0

Coefficient of Utilization



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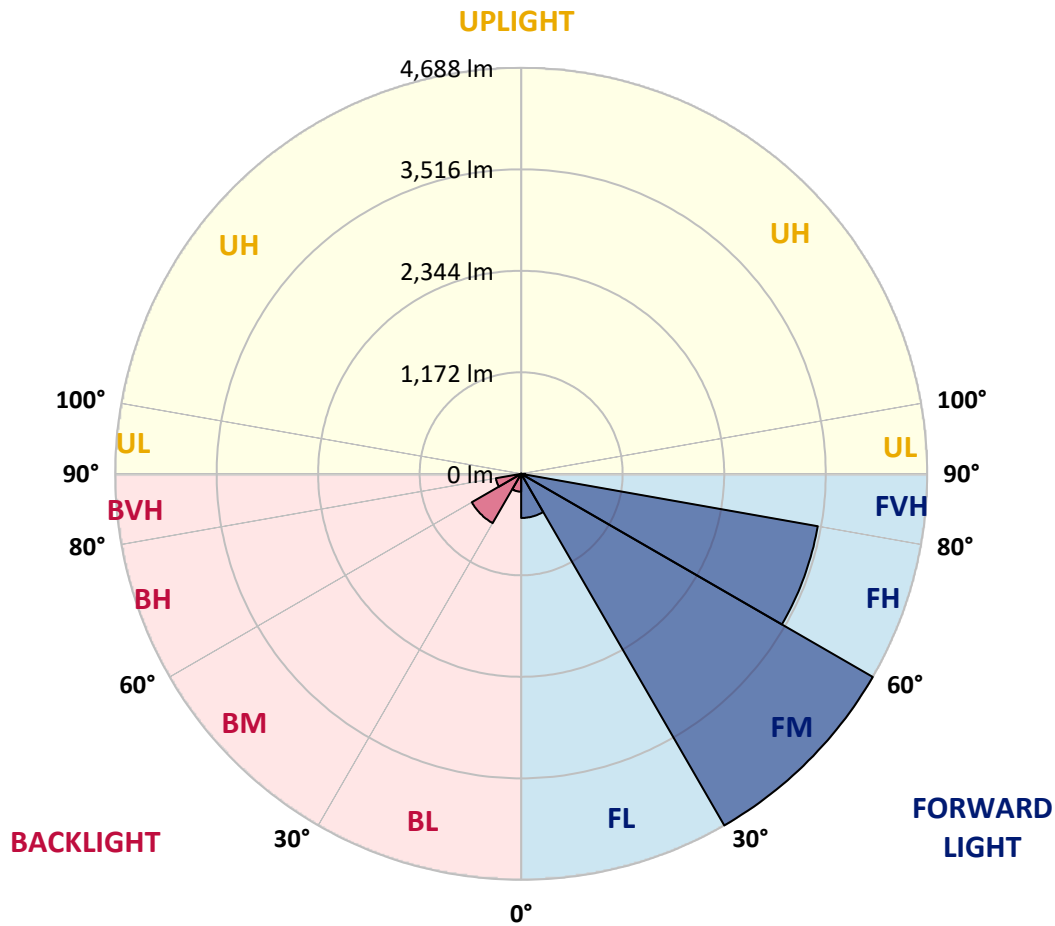
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	509.7	5.2			
FM	(30°-60°)	4688.2	47.4			
FH	(60°-80°)	3477.9	35.2			G2/5000
FVH	(80°-90°)	45.3	0.5			G1/100
BL	(0°-30°)	206.5	2.1	B1/500		
BM	(30°-60°)	658.0	6.7	B1/1000		
BH	(60°-80°)	296.5	3.0	B1/500		G1/500
BVH	(80°-90°)	6.0	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	805.6	805.6	805.6	805.6	805.6	805.6	805.6	805.6	805.6	805.6	805.6
2.5°	918.6	920.4	916.8	909.7	902.5	893.5	879.2	855.8	852.2	836.1	818.2
5°	981.4	985.0	979.6	977.8	974.2	961.7	942.0	907.9	904.3	872.0	830.7
7.5°	1003.0	1008.3	1004.7	1004.7	1004.7	999.4	990.4	959.9	954.5	913.2	850.4
10°	1019.1	1022.7	1020.9	1028.1	1033.5	1029.9	1024.5	1006.5	1001.2	959.9	877.4
12.5°	1044.2	1046.0	1047.8	1051.4	1060.4	1064.0	1062.2	1046.0	1042.4	1013.7	911.5
15°	1067.5	1067.5	1069.3	1085.5	1098.0	1105.2	1107.0	1094.5	1090.9	1067.5	954.5
17.5°	1089.1	1090.9	1096.3	1114.2	1135.7	1150.1	1159.1	1153.7	1148.3	1130.3	1004.7
20°	1121.4	1125.0	1130.3	1155.5	1177.0	1200.3	1218.3	1216.5	1214.7	1202.1	1064.0
22.5°	1177.0	1180.6	1189.6	1212.9	1234.4	1263.1	1293.6	1291.8	1286.4	1277.5	1133.9
25°	1261.3	1261.3	1266.7	1286.4	1313.4	1347.4	1376.1	1381.5	1376.1	1370.8	1221.8
27.5°	1367.2	1369.0	1369.0	1390.5	1415.6	1458.7	1494.6	1499.9	1499.9	1494.6	1340.3
30°	1514.3	1508.9	1505.3	1523.3	1550.2	1613.0	1675.8	1686.5	1681.2	1690.1	1507.1
32.5°	1767.3	1758.3	1727.8	1731.4	1747.5	1833.7	1939.5	1977.2	1975.4	1991.6	1776.3
35°	2117.2	2099.2	2054.4	2016.7	2014.9	2108.2	2269.7	2411.4	2409.6	2465.2	2185.3
37.5°	2511.9	2535.2	2450.9	2386.3	2366.5	2440.1	2648.2	2955.0	2971.2	3068.1	2721.8
40°	3039.4	3053.7	2946.1	2854.6	2761.3	2788.2	3062.7	3539.9	3568.7	3676.3	3258.3
42.5°	3498.7	3513.0	3450.2	3339.0	3220.6	3170.3	3480.7	4071.0	4094.4	4243.3	3810.9
45°	3810.9	3821.6	3843.2	3853.9	3719.4	3615.3	3992.1	4616.5	4645.2	4817.4	4350.9
47.5°	4054.9	4063.9	4106.9	4214.6	4187.7	4105.1	4512.4	5183.4	5190.6	5382.6	4876.6
50°	4167.9	4189.4	4295.3	4460.4	4578.8	4602.1	5077.6	5719.9	5739.6	5922.6	5373.6
52.5°	4042.3	4049.5	4316.8	4627.2	4865.9	5102.7	5644.5	6216.9	6274.3	6410.7	5820.4
55°	3618.9	3670.9	4076.4	4621.8	5091.9	5578.2	6251.0	6753.4	6805.4	6891.5	6213.3
57.5°	3127.3	3184.7	3678.1	4390.4	5188.8	6017.7	6812.6	7323.9	7359.8	7383.1	6573.9
60°	2702.1	2755.9	3263.6	3947.2	5091.9	6328.1	7334.7	7890.9	7921.4	7858.6	6755.1
62.5°	2179.9	2233.8	2745.1	3360.5	4711.6	6390.9	7722.2	8395.0	8407.6	8237.2	6643.9
65°	1643.5	1679.4	2106.4	2633.9	4045.9	6057.2	7810.1	8709.0	8696.5	8346.6	6310.2
66°	1473.0	1503.5	1880.3	2328.9	3699.6	5752.2	7691.7	8734.1	8721.6	8265.9	6091.3
67.5°	1270.3	1279.3	1589.7	1905.4	3095.0	5104.5	7331.1	8619.3	8630.1	8043.4	5691.2
70°	992.2	990.4	1169.8	1325.9	2113.6	3631.5	6114.6	7896.3	7948.3	7203.7	4853.3
72.5°	635.1	613.6	717.7	811.0	1230.8	2108.2	4458.6	6435.8	6523.7	5658.9	3615.3
75°	378.6	357.0	382.2	405.5	590.3	1013.7	2621.3	4379.6	4464.0	3627.9	2151.2
77.5°	283.5	274.5	276.3	256.6	262.0	380.4	1196.7	2314.5	2375.5	1485.6	816.4
80°	217.1	193.8	181.2	190.2	172.2	150.7	445.0	796.6	834.3	351.7	170.4
82.5°	145.3	125.6	116.6	127.4	109.4	84.3	107.7	154.3	150.7	95.1	66.4
85°	75.4	64.6	64.6	64.6	55.6	41.3	46.6	62.8	62.8	50.2	39.5
87.5°	21.5	19.7	23.3	21.5	16.1	16.1	17.9	21.5	21.5	19.7	17.9
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°	805.6	805.6	805.6	805.6	805.6	805.6	805.6	805.6	805.6	805.6	805.6
2.5°	803.8	796.6	776.9	762.5	748.2	735.6	721.3	717.7	710.5	712.3	708.7
5°	809.2	789.4	755.4	723.1	697.9	676.4	649.5	638.7	624.4	619.0	615.4
7.5°	816.4	787.7	737.4	692.6	649.5	606.4	563.4	538.3	522.1	514.9	509.6
10°	832.5	794.8	728.4	658.5	584.9	523.9	480.8	462.9	452.1	450.3	448.5
12.5°	854.0	805.6	719.5	615.4	518.5	461.1	434.2	428.8	427.0	427.0	425.2
15°	886.3	823.5	705.1	565.2	466.5	427.0	414.5	405.5	401.9	401.9	401.9
17.5°	918.6	845.1	683.6	513.1	430.6	405.5	392.9	387.5	384.0	385.8	384.0
20°	959.9	870.2	654.9	468.3	407.3	387.5	375.0	369.6	367.8	367.8	367.8
22.5°	1006.5	898.9	619.0	434.2	387.5	369.6	357.0	351.7	348.1	349.9	349.9
25°	1069.3	934.8	581.3	400.1	367.8	351.7	337.3	330.1	330.1	331.9	333.7
27.5°	1150.1	977.8	543.6	378.6	349.9	333.7	317.6	310.4	312.2	315.8	315.8
30°	1268.5	1037.0	506.0	355.3	330.1	312.2	297.8	290.7	294.2	301.4	301.4
32.5°	1437.2	1133.9	473.7	328.3	301.4	281.7	267.3	262.0	270.9	285.3	285.3
35°	1738.6	1311.6	453.9	301.4	270.9	247.6	229.7	224.3	236.8	254.8	254.8
37.5°	2142.3	1596.8	461.1	278.1	245.8	218.9	199.2	192.0	200.9	217.1	222.5
40°	2592.6	1941.3	523.9	258.4	222.5	195.6	175.8	168.7	174.0	181.2	183.0
42.5°	3043.0	2307.3	642.3	244.0	204.5	175.8	157.9	152.5	156.1	157.9	159.7
45°	3491.5	2669.8	791.2	235.0	188.4	159.7	141.7	141.7	143.5	143.5	143.5
47.5°	3916.7	3023.2	947.3	233.2	174.0	143.5	129.2	131.0	131.0	132.8	132.8
50°	4318.6	3339.0	1105.2	238.6	161.5	129.2	118.4	118.4	118.4	120.2	118.4
52.5°	4654.1	3615.3	1270.3	247.6	148.9	118.4	107.7	107.7	107.7	109.4	107.7
55°	4971.7	3866.5	1438.9	260.2	138.2	109.4	98.7	95.1	95.1	96.9	95.1
57.5°	5230.1	4033.4	1598.6	262.0	129.2	100.5	91.5	86.1	86.1	86.1	86.1
60°	5240.8	3936.5	1645.3	229.7	118.4	91.5	82.5	75.4	77.2	77.2	77.2
62.5°	4898.2	3426.9	1322.3	172.2	105.9	82.5	75.4	68.2	68.2	68.2	68.2
65°	4225.3	2666.2	775.1	136.4	91.5	73.6	66.4	61.0	61.0	61.0	59.2
66°	3909.6	2337.8	593.9	123.8	86.1	71.8	64.6	59.2	57.4	55.6	55.6
67.5°	3394.6	1848.0	371.4	109.4	78.9	66.4	59.2	53.8	52.0	50.2	50.2
70°	2556.7	1173.4	181.2	84.3	68.2	57.4	52.0	46.6	44.9	43.1	41.3
72.5°	1794.2	687.2	95.1	64.6	55.6	50.2	44.9	39.5	37.7	35.9	35.9
75°	1013.7	331.9	62.8	46.6	44.9	41.3	37.7	32.3	30.5	30.5	30.5
77.5°	384.0	114.8	43.1	34.1	35.9	32.3	26.9	26.9	25.1	26.9	25.1
80°	100.5	50.2	26.9	25.1	26.9	23.3	19.7	21.5	21.5	21.5	21.5
82.5°	53.8	28.7	16.1	17.9	16.1	16.1	12.6	14.4	16.1	14.4	16.1
85°	37.7	14.4	9.0	9.0	7.2	7.2	5.4	7.2	9.0	7.2	7.2
87.5°	19.7	5.4	5.4	5.4	5.4	3.6	1.8	0.0	1.8	1.8	1.8
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)