

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: P1210776

Luminaire Tested: **ARCH3-70-727-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210776
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: ARCH3-70-727-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 580mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7961 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 73.1
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



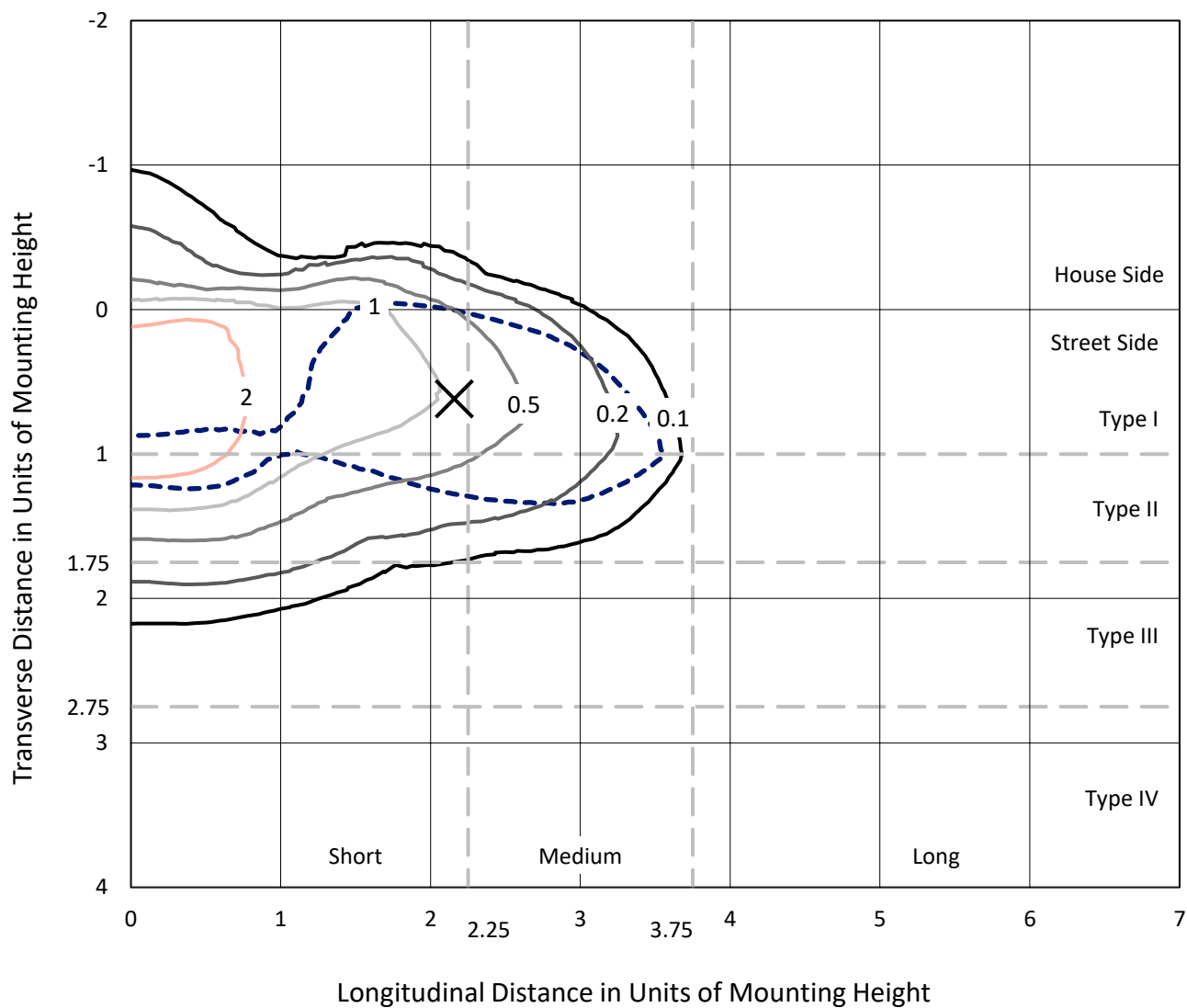
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

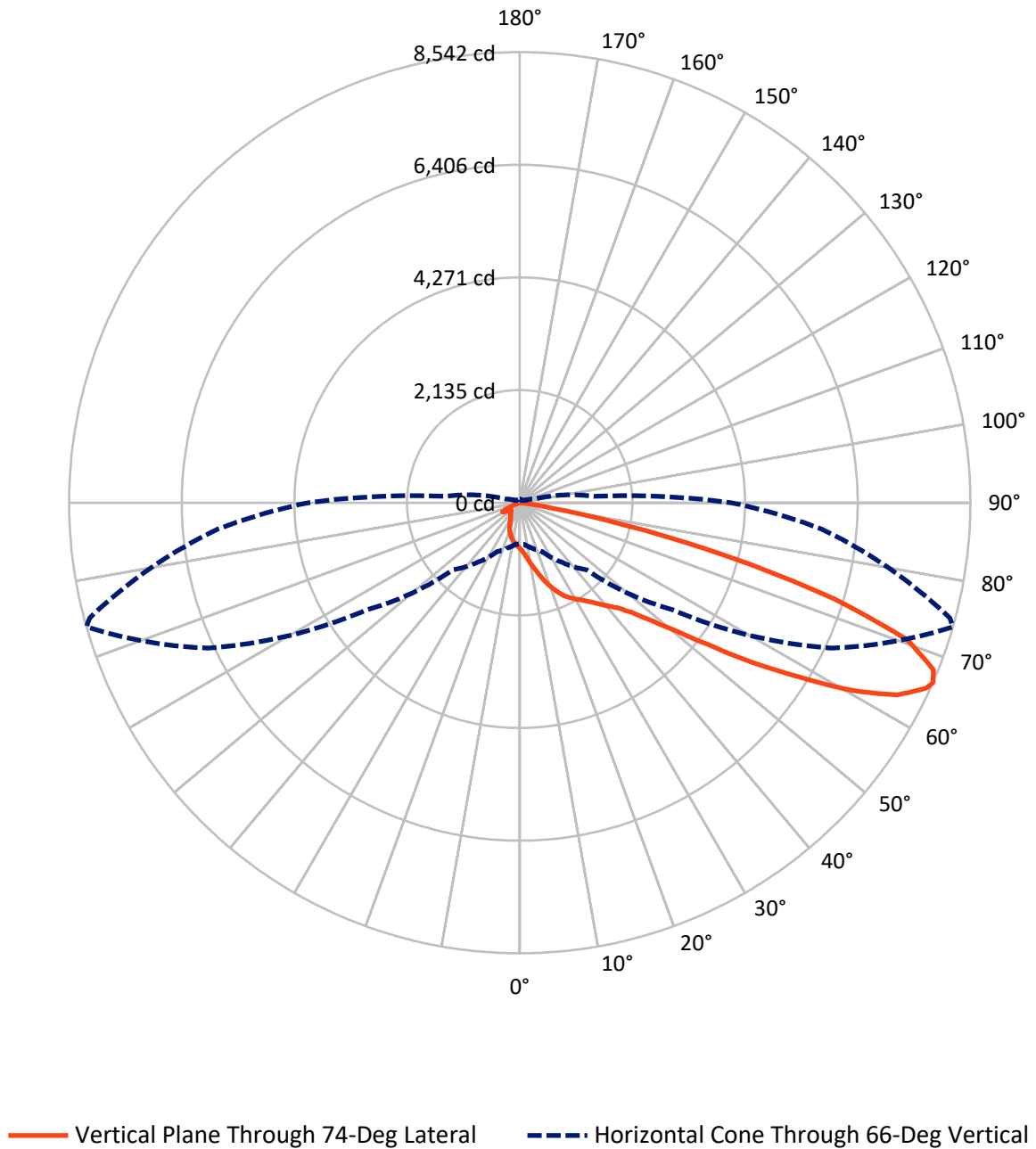
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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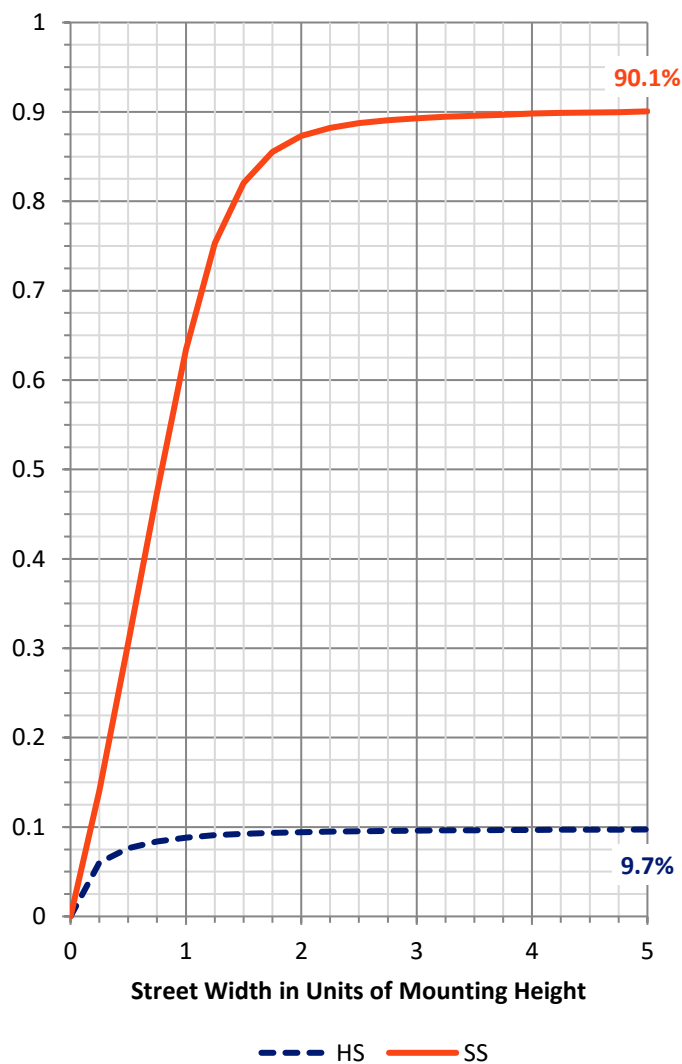
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	780.4	0.0	780.4
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	7180.6	0.0	7180.6
	% Fixture	90.2	0.0	90.2
Total	Lumens	7961.0	0.0	7961.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.8	1.1
10°-20°	271.9	3.4
20°-30°	519.0	6.5
30°-40°	909.6	11.4
40°-50°	1559.7	19.6
50°-60°	2028.5	25.5
60°-70°	1836.3	23.1
70°-80°	708.5	8.9
80°-90°	42.6	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°	7961.0	100.0
0°-180°	7961.0	100.0

Coefficient of Utilization



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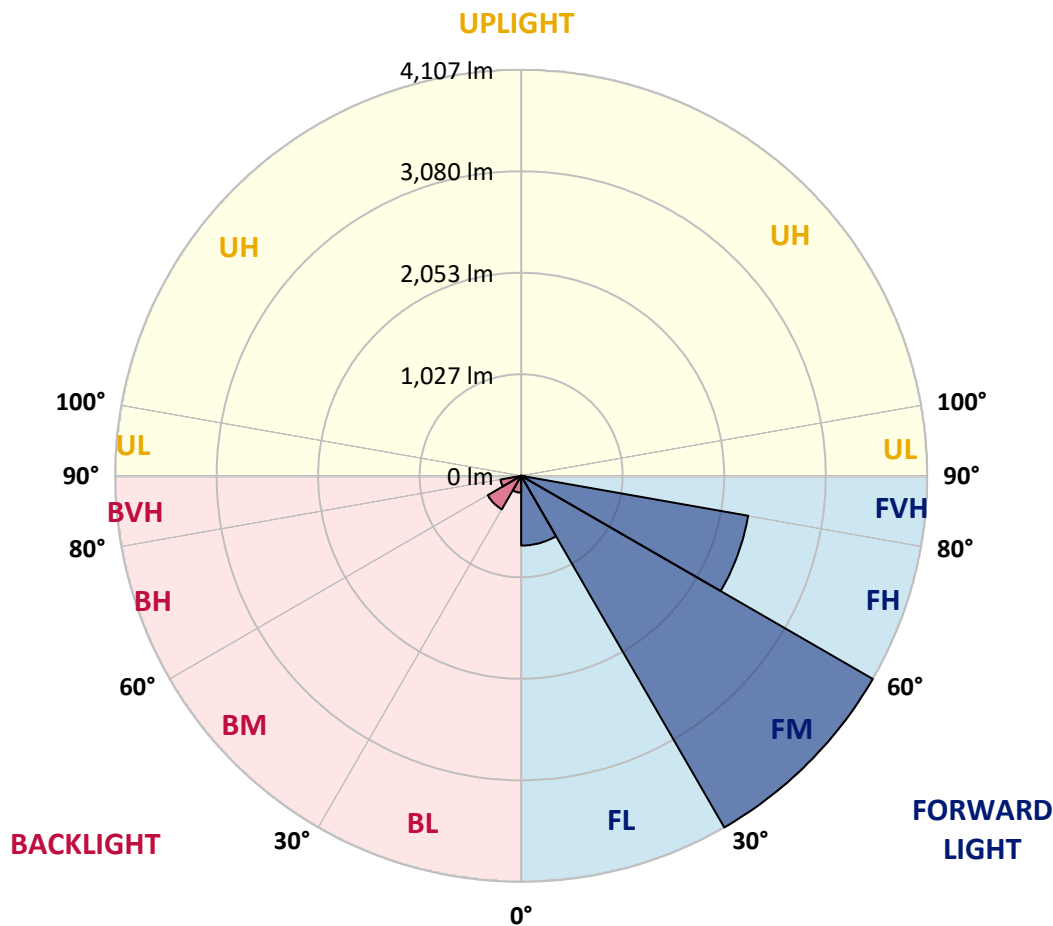
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	705.5	8.9			
FM	(30°-60°)	4106.7	51.6			
FH	(60°-80°)	2331.5	29.3			G2/5000
FVH	(80°-90°)	36.9	0.5			G1/100
BL	(0°-30°)	170.2	2.1	B1/500		
BM	(30°-60°)	391.1	4.9	B1/1000		
BH	(60°-80°)	213.4	2.7	B1/500		G1/500
BVH	(80°-90°)	5.7	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°	869.0	869.0	869.0	869.0	869.0	869.0	869.0	869.0	869.0	869.0	869.0
2.5°	1043.4	1034.8	1019.1	1017.7	1004.8	989.1	961.9	933.3	913.3	910.5	886.2
5°	1249.2	1244.9	1229.2	1219.2	1194.9	1157.7	1094.8	1032.0	979.1	973.4	919.0
7.5°	1303.5	1306.4	1309.2	1319.2	1310.7	1293.5	1246.3	1157.7	1074.8	1062.0	967.6
10°	1312.1	1309.2	1309.2	1322.1	1346.4	1370.7	1365.0	1289.2	1182.0	1166.3	1034.8
12.5°	1405.0	1409.3	1399.3	1393.6	1389.3	1402.1	1445.0	1412.1	1294.9	1282.1	1116.3
15°	1525.1	1523.6	1509.3	1509.3	1496.5	1475.0	1502.2	1526.5	1430.7	1415.0	1209.2
17.5°	1612.2	1618.0	1616.5	1625.1	1620.8	1592.2	1577.9	1628.0	1570.8	1550.8	1315.0
20°	1682.3	1698.0	1703.7	1730.9	1743.7	1723.7	1686.6	1718.0	1705.2	1686.6	1422.1
22.5°	1756.6	1769.5	1779.5	1826.6	1862.4	1858.1	1810.9	1803.8	1835.2	1818.1	1527.9
25°	1830.9	1836.6	1866.7	1923.8	1981.0	1995.3	1946.7	1891.0	1952.4	1936.7	1622.3
27.5°	1912.4	1915.3	1951.0	2021.0	2101.1	2131.1	2092.5	1989.6	2042.5	2042.5	1708.0
30°	2061.0	2089.6	2103.9	2166.8	2236.8	2278.3	2232.6	2093.9	2122.5	2135.4	1798.1
32.5°	2381.2	2385.5	2381.2	2408.4	2422.7	2447.0	2394.1	2211.1	2204.0	2218.3	1886.7
35°	2870.0	2852.9	2807.1	2767.1	2684.2	2638.5	2569.9	2361.2	2304.0	2324.0	1973.9
37.5°	3463.2	3438.9	3334.5	3211.6	3034.4	2851.4	2765.7	2544.1	2431.2	2457.0	2068.2
40°	4029.2	4013.5	3889.1	3737.6	3434.6	3121.6	2940.1	2698.5	2572.7	2582.7	2164.0
42.5°	4495.1	4492.3	4387.9	4229.3	3840.5	3413.2	3145.9	2850.0	2721.4	2737.1	2264.0
45°	4848.2	4821.0	4743.8	4629.5	4233.6	3716.2	3394.6	3080.1	2960.1	2978.7	2414.1
47.5°	4848.2	4852.5	4902.5	4891.1	4508.0	4000.6	3666.1	3370.3	3313.1	3330.3	2661.3
50°	4453.7	4493.7	4716.7	4903.9	4650.9	4222.1	3959.1	3733.3	3791.9	3817.6	3093.0
52.5°	3673.3	3740.5	4127.8	4555.2	4545.2	4333.6	4262.2	4195.0	4458.0	4503.7	3730.5
55°	2791.4	2835.7	3340.3	3902.0	4084.9	4242.2	4526.6	4781.0	5339.8	5329.8	4377.9
57.5°	2085.3	2126.8	2561.3	3184.5	3426.0	3846.2	4662.4	5451.3	6214.6	6253.2	4985.4
60°	1533.6	1565.1	1935.3	2447.0	2795.7	3240.2	4608.1	6111.7	7222.2	7177.9	5521.4
62.5°	1134.9	1152.0	1419.3	1752.3	2215.4	2639.9	4266.4	6563.3	8026.9	7936.9	5820.1
65°	877.6	883.3	1021.9	1199.2	1610.8	2052.5	3757.6	6631.9	8471.4	8375.7	5814.4
66°	781.8	786.1	887.6	1024.8	1370.7	1796.6	3534.6	6521.9	8541.5	8440.0	5742.9
67.5°	656.0	653.2	713.2	803.3	1029.1	1386.4	3138.7	6200.3	8458.6	8407.1	5514.2
70°	486.0	487.4	517.4	538.8	601.7	767.5	2266.9	5378.4	7795.4	7792.5	4886.8
72.5°	360.2	364.5	387.3	391.6	375.9	415.9	1306.4	4277.9	6236.0	6237.4	3653.3
75°	270.1	277.3	284.4	287.3	273.0	263.0	590.3	2878.6	4102.1	4072.1	2068.2
77.5°	205.8	208.7	214.4	210.1	207.2	181.5	245.8	1403.6	2025.3	1845.2	670.3
80°	150.1	150.1	155.8	150.1	148.6	130.1	134.4	450.2	594.6	494.5	144.4
82.5°	94.3	92.9	97.2	95.8	92.9	82.9	78.6	125.8	137.2	122.9	70.0
85°	52.9	51.5	50.0	48.6	44.3	37.2	42.9	47.2	62.9	64.3	50.0
87.5°	18.6	18.6	17.2	15.7	12.9	12.9	15.7	15.7	22.9	22.9	25.7
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°	869.0	869.0	869.0	869.0	869.0	869.0	869.0	869.0	869.0	869.0	869.0
2.5°	874.7	859.0	836.1	806.1	784.7	763.2	740.4	727.5	708.9	704.6	710.4
5°	890.5	861.9	804.7	741.8	687.5	638.9	593.2	566.0	538.8	528.8	533.1
7.5°	923.3	874.7	777.5	676.1	586.0	513.1	458.8	427.4	403.1	393.1	395.9
10°	971.9	897.6	751.8	601.7	486.0	408.8	363.0	343.0	328.7	323.0	324.5
12.5°	1030.5	930.5	718.9	527.4	400.2	333.0	311.6	307.3	304.4	301.6	303.0
15°	1096.3	959.1	680.3	454.5	333.0	295.9	288.7	287.3	285.9	285.9	285.9
17.5°	1164.9	984.8	637.5	385.9	290.1	273.0	268.7	268.7	268.7	270.1	270.1
20°	1229.2	1004.8	587.4	324.5	265.8	251.6	248.7	248.7	250.1	251.6	251.6
22.5°	1292.1	1013.4	528.8	281.6	245.8	233.0	228.7	228.7	228.7	230.1	230.1
25°	1346.4	1013.4	470.2	254.4	228.7	215.8	210.1	208.7	210.1	210.1	210.1
27.5°	1392.1	1009.1	413.1	235.8	211.5	198.7	193.0	191.5	194.4	195.8	195.8
30°	1440.7	1003.4	367.3	218.7	197.2	184.4	178.7	178.7	182.9	188.7	188.7
32.5°	1487.9	1007.7	331.6	204.4	182.9	172.9	167.2	168.7	177.2	185.8	185.8
35°	1537.9	1016.2	310.2	194.4	172.9	162.9	158.7	162.9	171.5	180.1	180.1
37.5°	1587.9	1026.2	297.3	185.8	164.4	154.4	151.5	157.2	167.2	175.8	177.2
40°	1640.8	1034.8	283.0	177.2	158.7	147.2	145.8	151.5	164.4	172.9	174.4
42.5°	1706.6	1052.0	265.8	170.1	152.9	138.6	140.1	144.4	157.2	170.1	171.5
45°	1835.2	1106.3	248.7	162.9	145.8	134.4	131.5	134.4	148.6	162.9	165.8
47.5°	2076.8	1229.2	230.1	155.8	138.6	131.5	120.1	122.9	135.8	151.5	152.9
50°	2539.9	1490.8	220.1	148.6	132.9	121.5	108.6	108.6	118.6	132.9	132.9
52.5°	3261.7	1959.6	225.8	142.9	125.8	111.5	98.6	97.2	102.9	112.9	112.9
55°	4040.6	2474.1	247.3	137.2	117.2	105.8	91.5	84.3	88.6	94.3	94.3
57.5°	4658.1	2732.8	305.9	134.4	107.2	101.5	82.9	72.9	77.2	82.9	82.9
60°	4929.6	2581.3	371.6	137.2	100.1	94.3	74.3	64.3	71.5	77.2	78.6
62.5°	4709.5	2125.4	398.8	130.1	90.0	84.3	72.9	60.0	68.6	72.9	74.3
65°	4233.6	1615.1	311.6	112.9	82.9	72.9	65.7	57.2	64.3	68.6	68.6
66°	4007.7	1407.9	265.8	104.3	80.0	68.6	62.9	57.2	62.9	65.7	67.2
67.5°	3657.6	1110.6	197.2	91.5	74.3	62.9	58.6	54.3	60.0	62.9	62.9
70°	2860.0	661.8	118.6	71.5	64.3	55.7	52.9	50.0	54.3	55.7	55.7
72.5°	1790.9	314.4	75.8	52.9	54.3	52.9	44.3	47.2	48.6	50.0	50.0
75°	867.6	124.3	51.5	38.6	44.3	50.0	35.7	41.4	42.9	45.7	44.3
77.5°	241.6	60.0	32.9	28.6	38.6	38.6	27.2	32.9	38.6	48.6	44.3
80°	70.0	38.6	21.4	21.4	27.2	27.2	18.6	22.9	25.7	28.6	30.0
82.5°	48.6	25.7	14.3	15.7	15.7	17.2	11.4	11.4	14.3	14.3	15.7
85°	38.6	11.4	8.6	10.0	7.1	8.6	5.7	5.7	7.1	5.7	5.7
87.5°	15.7	5.7	5.7	5.7	4.3	4.3	2.9	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)