

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: P1210886

Luminaire Tested: **ARCH4-100-740-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210886
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: ARCH4-100-740-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 845mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12677 lumens
Efficiency: N/A
Efficacy: 123.0 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

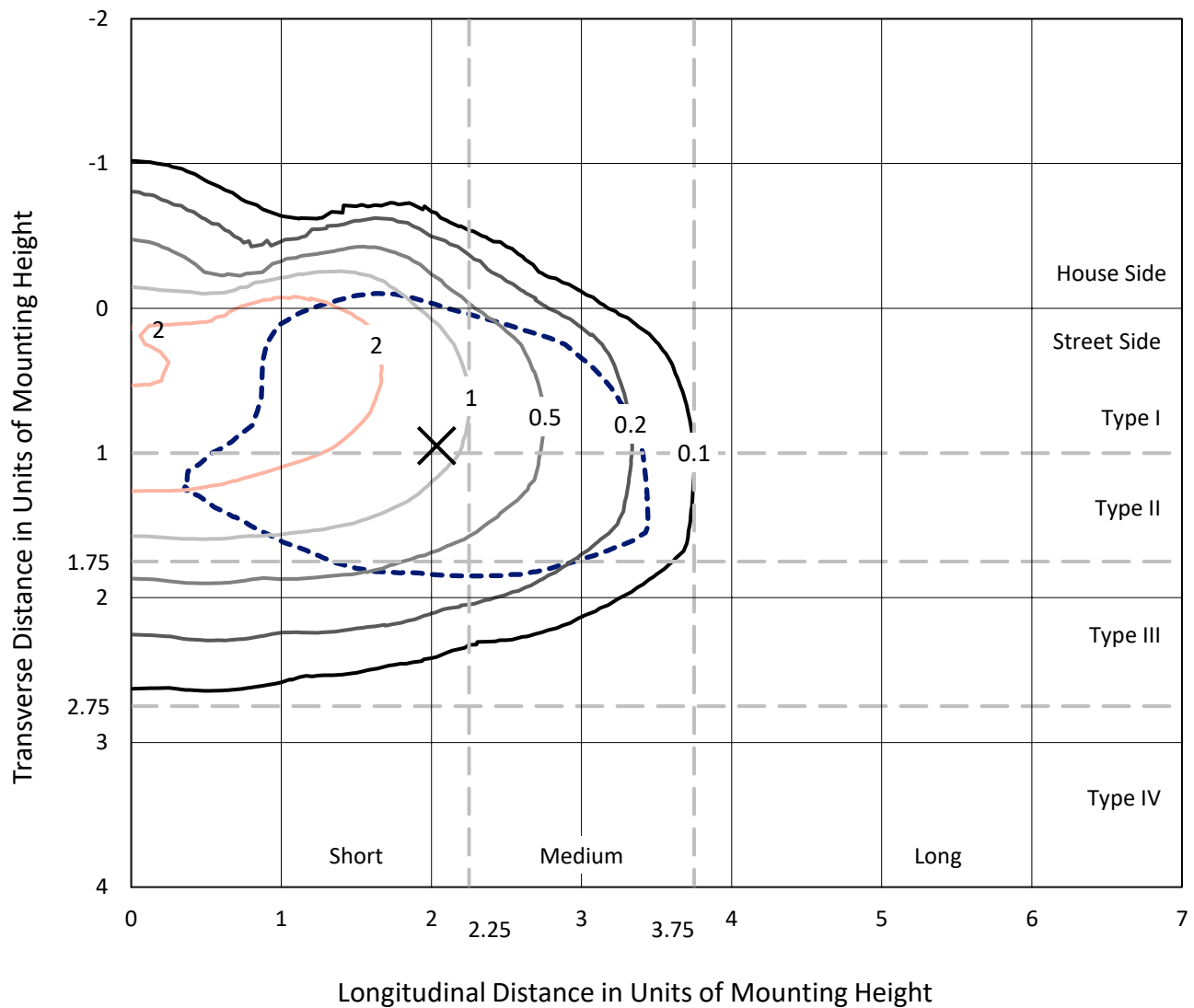
Input Watts (W): 103.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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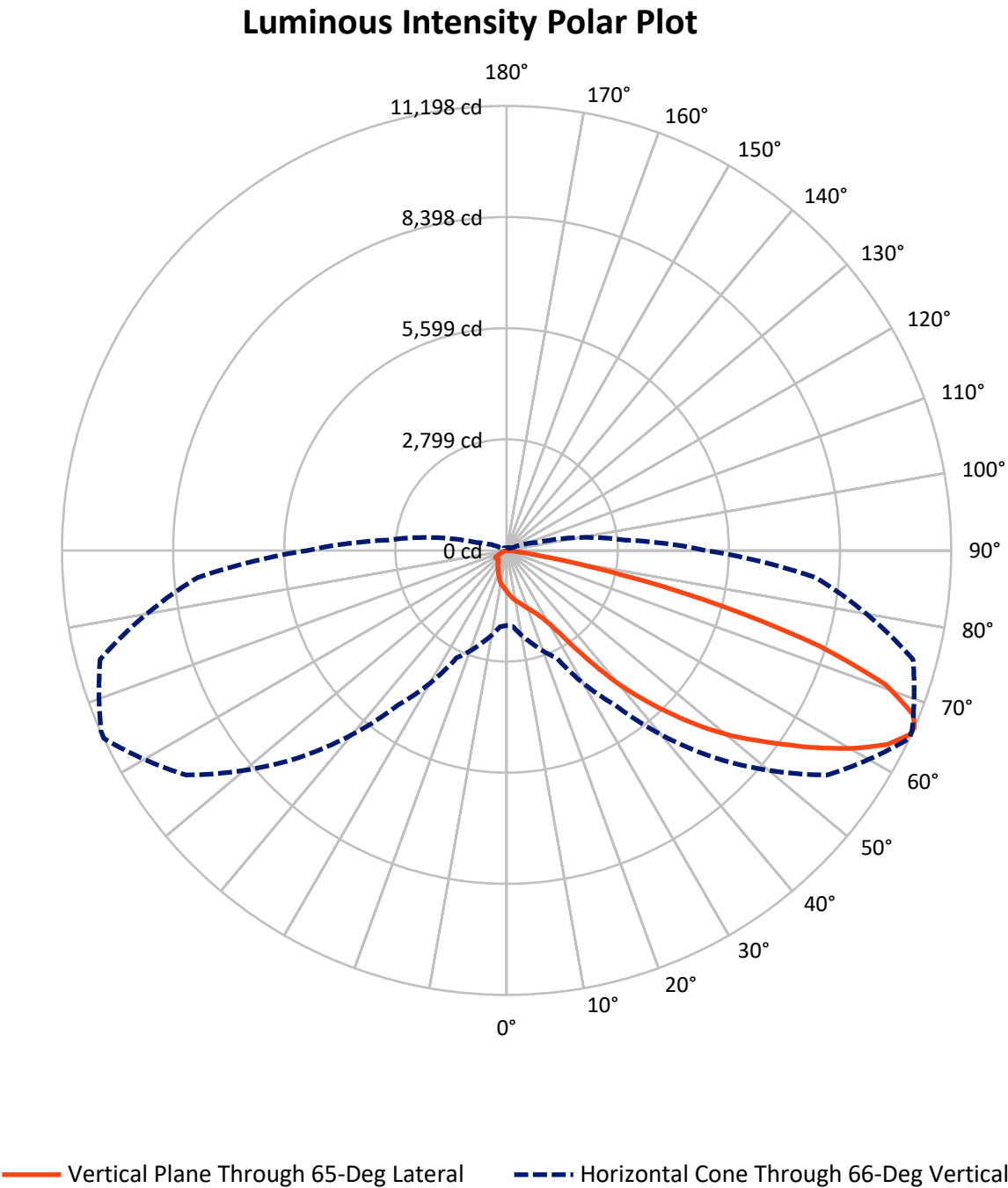
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type III - Short - N/A

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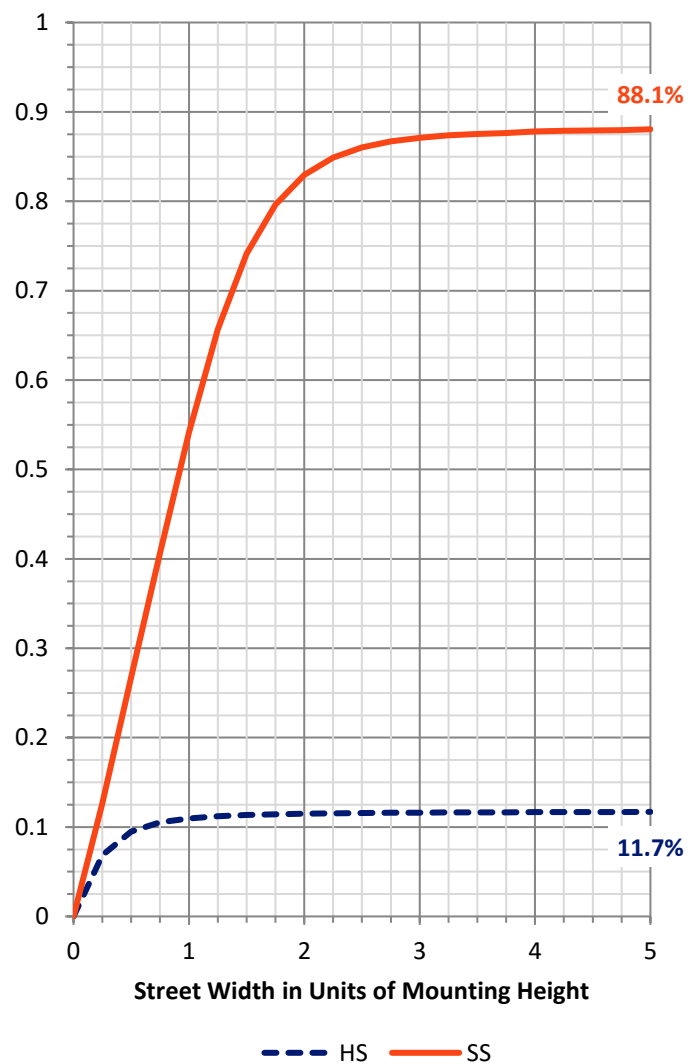
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1496.1	0.0	1496.1
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	11180.8	0.0	11180.8
	% Fixture	88.2	0.0	88.2
Total	Lumens	12677.0	0.0	12677.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.9	0.8
10°-20°	289.9	2.3
20°-30°	530.5	4.2
30°-40°	1078.0	8.5
40°-50°	2276.4	18.0
50°-60°	3499.6	27.6
60°-70°	3522.6	27.8
70°-80°	1316.2	10.4
80°-90°	65.7	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°	12677.0	100.0
0°-180°	12677.0	100.0

Coefficient of Utilization



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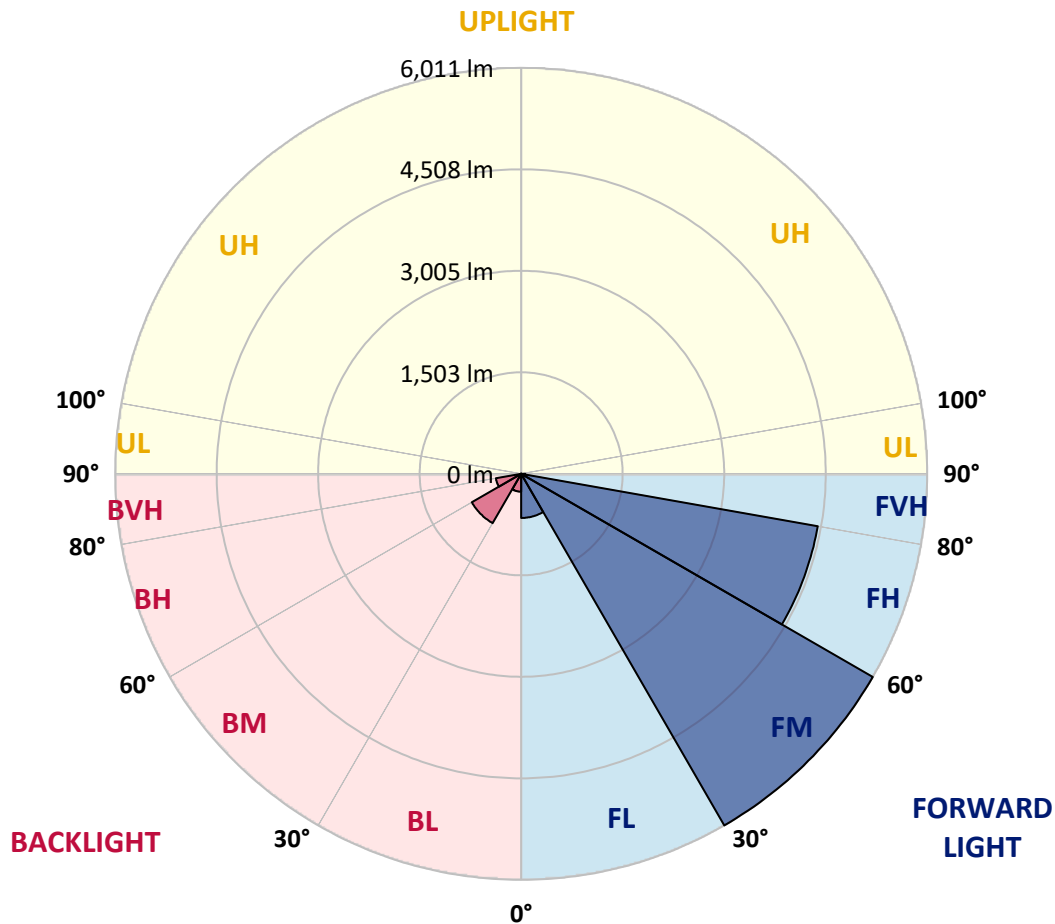
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	653.5	5.2			
FM	(30°-60°)	6010.5	47.4			
FH	(60°-80°)	4458.8	35.2			G2/5000
FVH	(80°-90°)	58.0	0.5			G1/100
BL	(0°-30°)	264.8	2.1	B1/500		
BM	(30°-60°)	843.5	6.7	B1/1000		
BH	(60°-80°)	380.1	3.0	B1/500		G1/500
BVH	(80°-90°)	7.7	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1032.8	1032.8	1032.8	1032.8	1032.8	1032.8	1032.8	1032.8	1032.8	1032.8	1032.8
2.5°	1177.7	1180.0	1175.4	1166.2	1157.0	1145.5	1127.1	1097.2	1092.6	1071.9	1048.9
5°	1258.2	1262.8	1255.9	1253.6	1249.0	1232.9	1207.6	1163.9	1159.3	1117.9	1065.0
7.5°	1285.8	1292.7	1288.1	1288.1	1288.1	1281.2	1269.7	1230.6	1223.7	1170.8	1090.3
10°	1306.6	1311.2	1308.9	1318.1	1325.0	1320.4	1313.5	1290.4	1283.5	1230.6	1124.8
12.5°	1338.8	1341.1	1343.4	1348.0	1359.5	1364.1	1361.8	1341.1	1336.5	1299.6	1168.5
15°	1368.7	1368.7	1371.0	1391.7	1407.8	1417.0	1419.3	1403.2	1398.6	1368.7	1223.7
17.5°	1396.3	1398.6	1405.5	1428.5	1456.1	1474.5	1486.0	1479.1	1472.2	1449.2	1288.1
20°	1437.7	1442.3	1449.2	1481.4	1509.0	1538.9	1561.9	1559.6	1557.3	1541.2	1364.1
22.5°	1509.0	1513.6	1525.1	1555.0	1582.6	1619.4	1658.5	1656.2	1649.3	1637.8	1453.8
25°	1617.1	1617.1	1624.0	1649.3	1683.8	1727.5	1764.3	1771.2	1764.3	1757.4	1566.5
27.5°	1752.8	1755.1	1755.1	1782.7	1814.9	1870.1	1916.1	1923.0	1923.0	1916.1	1718.3
30°	1941.4	1934.5	1929.9	1952.9	1987.4	2067.9	2148.4	2162.2	2155.3	2166.8	1932.2
32.5°	2265.8	2254.3	2215.2	2219.8	2240.5	2350.9	2486.6	2534.9	2532.6	2553.3	2277.3
35°	2714.3	2691.3	2633.8	2585.5	2583.2	2702.8	2909.8	3091.6	3089.3	3160.6	2801.7
37.5°	3220.4	3250.3	3142.2	3059.4	3034.0	3128.4	3395.2	3788.5	3809.2	3933.5	3489.5
40°	3896.6	3915.1	3777.0	3659.7	3540.1	3574.6	3926.6	4538.4	4575.2	4713.2	4177.3
42.5°	4485.5	4503.9	4423.4	4280.8	4129.0	4064.6	4462.5	5219.3	5249.2	5440.1	4885.8
45°	4885.8	4899.6	4927.2	4941.0	4768.4	4635.0	5118.1	5918.6	5955.4	6176.2	5578.1
47.5°	5198.6	5210.1	5265.3	5403.3	5368.8	5263.0	5785.2	6645.5	6654.7	6900.8	6252.1
50°	5343.5	5371.1	5506.8	5718.5	5870.3	5900.2	6509.7	7333.2	7358.5	7593.2	6889.3
52.5°	5182.5	5191.7	5534.4	5932.4	6238.3	6542.0	7236.6	7970.4	8044.0	8218.8	7462.1
55°	4639.6	4706.3	5226.2	5925.5	6528.2	7151.5	8014.1	8658.2	8724.9	8835.3	7965.8
57.5°	4009.4	4083.0	4715.5	5628.7	6652.4	7715.1	8734.1	9389.7	9435.7	9465.6	8428.2
60°	3464.2	3533.2	4184.2	5060.6	6528.2	8113.0	9403.5	10116.6	10155.7	10075.2	8660.5
62.5°	2794.8	2863.8	3519.4	4308.4	6040.5	8193.5	9900.3	10762.9	10779.0	10560.5	8517.9
65°	2107.0	2153.0	2700.5	3376.8	5187.1	7765.7	10013.1	11165.5	11149.4	10700.8	8090.0
66°	1888.5	1927.6	2410.7	2985.7	4743.1	7374.6	9861.2	11197.7	11181.6	10597.3	7809.4
67.5°	1628.6	1640.1	2038.0	2442.9	3968.0	6544.3	9398.9	11050.5	11064.3	10312.1	7296.4
70°	1272.0	1269.7	1499.8	1699.9	2709.7	4655.7	7839.3	10123.5	10190.2	9235.6	6222.2
72.5°	814.3	786.7	920.1	1039.7	1578.0	2702.8	5716.2	8251.0	8363.8	7255.0	4635.0
75°	485.4	457.8	490.0	519.9	756.8	1299.6	3360.7	5614.9	5723.1	4651.1	2758.0
77.5°	363.4	351.9	354.2	328.9	335.8	487.7	1534.3	2967.3	3045.6	1904.6	1046.6
80°	278.3	248.4	232.3	243.8	220.8	193.2	570.5	1021.3	1069.6	450.9	218.5
82.5°	186.3	161.0	149.5	163.3	140.3	108.1	138.0	197.8	193.2	121.9	85.1
85°	96.6	82.8	82.8	82.8	71.3	52.9	59.8	80.5	80.5	64.4	50.6
87.5°	27.6	25.3	29.9	27.6	20.7	20.7	23.0	27.6	27.6	25.3	23.0
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°	1032.8	1032.8	1032.8	1032.8	1032.8	1032.8	1032.8	1032.8	1032.8	1032.8	1032.8
2.5°	1030.5	1021.3	996.0	977.6	959.2	943.1	924.7	920.1	910.9	913.2	908.6
5°	1037.4	1012.1	968.4	927.0	894.8	867.2	832.7	818.9	800.5	793.6	789.0
7.5°	1046.6	1009.8	945.4	887.9	832.7	777.5	722.3	690.1	669.4	660.2	653.3
10°	1067.3	1019.0	933.9	844.2	749.9	671.7	616.5	593.5	579.7	577.4	575.1
12.5°	1094.9	1032.8	922.4	789.0	664.8	591.2	556.7	549.8	547.5	547.5	545.2
15°	1136.3	1055.8	904.0	724.6	598.1	547.5	531.4	519.9	515.3	515.3	515.3
17.5°	1177.7	1083.4	876.4	657.9	552.1	519.9	503.8	496.9	492.3	494.6	492.3
20°	1230.6	1115.6	839.6	600.4	522.2	496.9	480.8	473.9	471.6	471.6	471.6
22.5°	1290.4	1152.4	793.6	556.7	496.9	473.9	457.8	450.9	446.3	448.6	448.6
25°	1371.0	1198.4	745.3	513.0	471.6	450.9	432.4	423.2	423.2	425.5	427.8
27.5°	1474.5	1253.6	697.0	485.4	448.6	427.8	407.1	397.9	400.2	404.8	404.8
30°	1626.3	1329.6	648.7	455.5	423.2	400.2	381.8	372.6	377.2	386.4	386.4
32.5°	1842.5	1453.8	607.3	420.9	386.4	361.1	342.7	335.8	347.3	365.7	365.7
35°	2229.0	1681.5	582.0	386.4	347.3	317.4	294.4	287.5	303.6	326.6	326.6
37.5°	2746.5	2047.2	591.2	356.5	315.1	280.6	255.3	246.1	257.6	278.3	285.2
40°	3323.9	2488.9	671.7	331.2	285.2	250.7	225.4	216.2	223.1	232.3	234.6
42.5°	3901.2	2958.1	823.5	312.8	262.2	225.4	202.4	195.5	200.1	202.4	204.7
45°	4476.3	3422.8	1014.4	301.3	241.5	204.7	181.7	181.7	184.0	184.0	184.0
47.5°	5021.5	3875.9	1214.5	299.0	223.1	184.0	165.6	167.9	167.9	170.2	170.2
50°	5536.7	4280.8	1417.0	305.9	207.0	165.6	151.8	151.8	151.8	154.1	151.8
52.5°	5966.9	4635.0	1628.6	317.4	190.9	151.8	138.0	138.0	138.0	140.3	138.0
55°	6374.0	4957.1	1844.8	333.5	177.1	140.3	126.5	121.9	121.9	124.2	121.9
57.5°	6705.3	5171.0	2049.5	335.8	165.6	128.8	117.3	110.4	110.4	110.4	110.4
60°	6719.1	5046.8	2109.3	294.4	151.8	117.3	105.8	96.6	98.9	98.9	98.9
62.5°	6279.7	4393.5	1695.3	220.8	135.7	105.8	96.6	87.4	87.4	87.4	87.4
65°	5417.1	3418.2	993.7	174.8	117.3	94.3	85.1	78.2	78.2	78.2	75.9
66°	5012.3	2997.2	761.4	158.7	110.4	92.0	82.8	75.9	73.6	71.3	71.3
67.5°	4352.1	2369.3	476.2	140.3	101.2	85.1	75.9	69.0	66.7	64.4	64.4
70°	3277.9	1504.4	232.3	108.1	87.4	73.6	66.7	59.8	57.5	55.2	52.9
72.5°	2300.3	881.0	121.9	82.8	71.3	64.4	57.5	50.6	48.3	46.0	46.0
75°	1299.6	425.5	80.5	59.8	57.5	52.9	48.3	41.4	39.1	39.1	39.1
77.5°	492.3	147.2	55.2	43.7	46.0	41.4	34.5	34.5	32.2	34.5	32.2
80°	128.8	64.4	34.5	32.2	34.5	29.9	25.3	27.6	27.6	27.6	27.6
82.5°	69.0	36.8	20.7	23.0	20.7	20.7	16.1	18.4	20.7	18.4	20.7
85°	48.3	18.4	11.5	11.5	9.2	9.2	6.9	9.2	11.5	9.2	9.2
87.5°	25.3	6.9	6.9	6.9	6.9	4.6	2.3	0.0	2.3	2.3	2.3
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)