

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: P799876

Luminaire Tested: **ARCH2-60-727-U-T2U-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799876
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-60-727-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 485mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

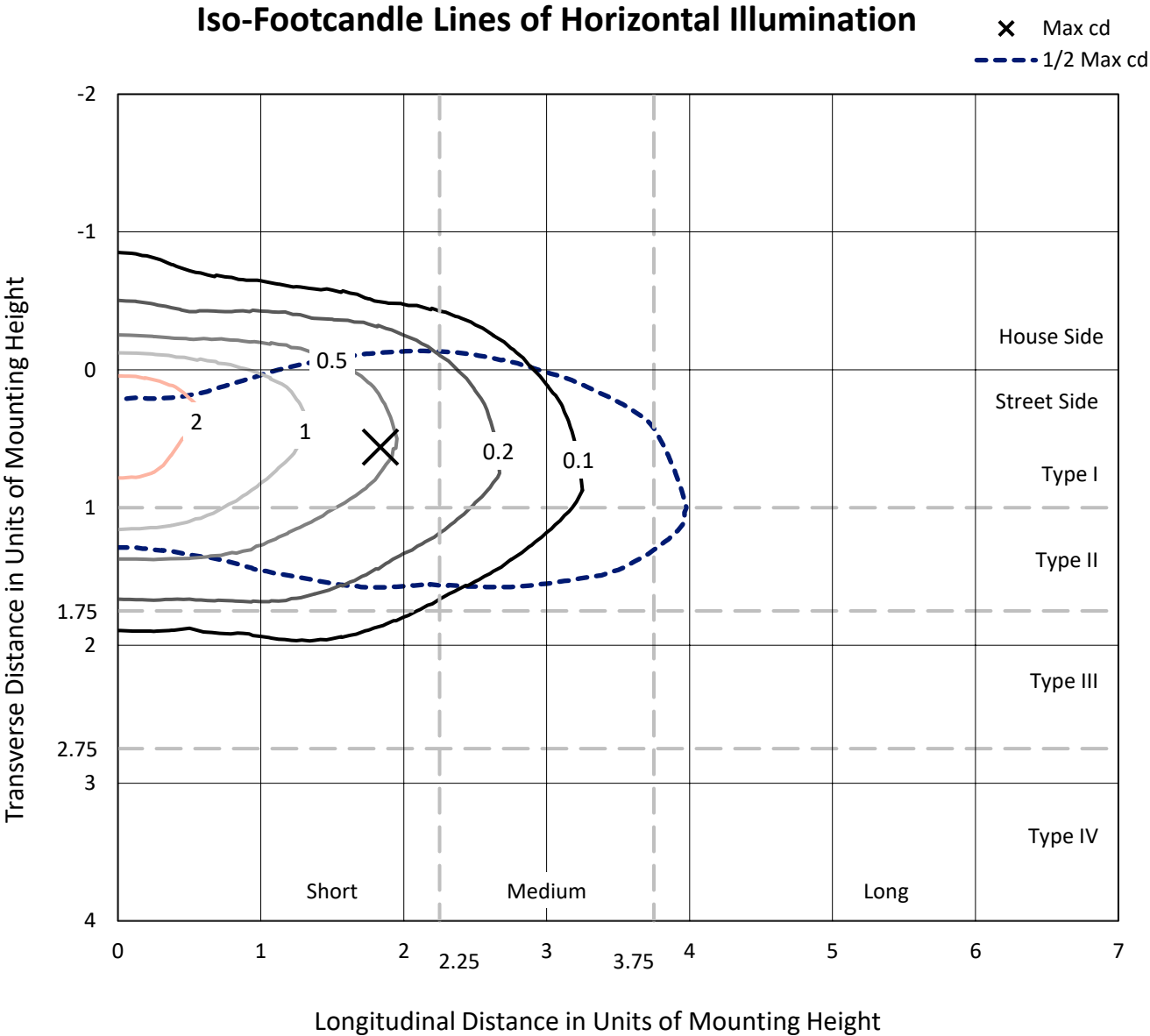
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5747 lumens
Efficiency: N/A
Efficacy: 90.1 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): 63.8
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



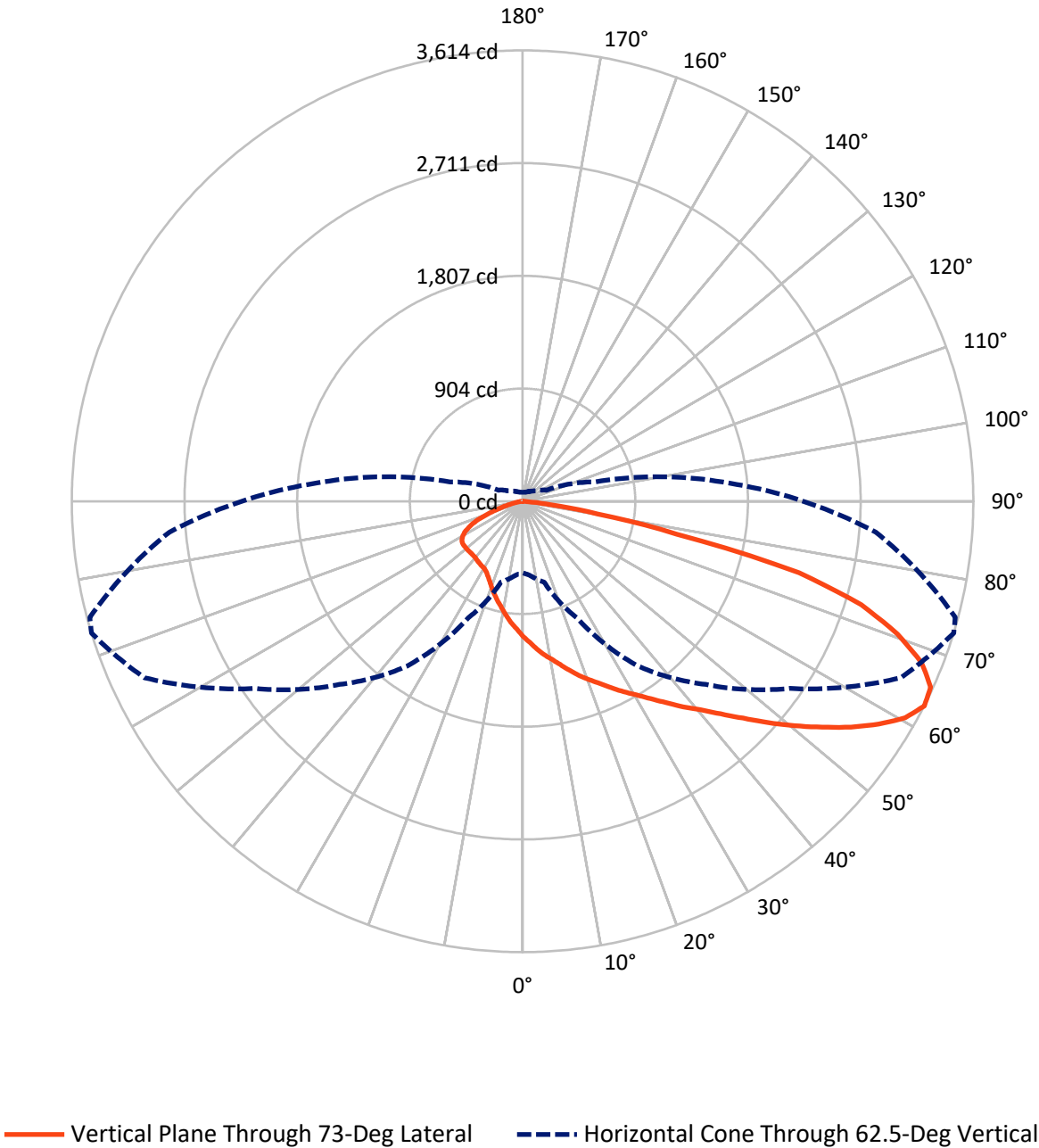
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Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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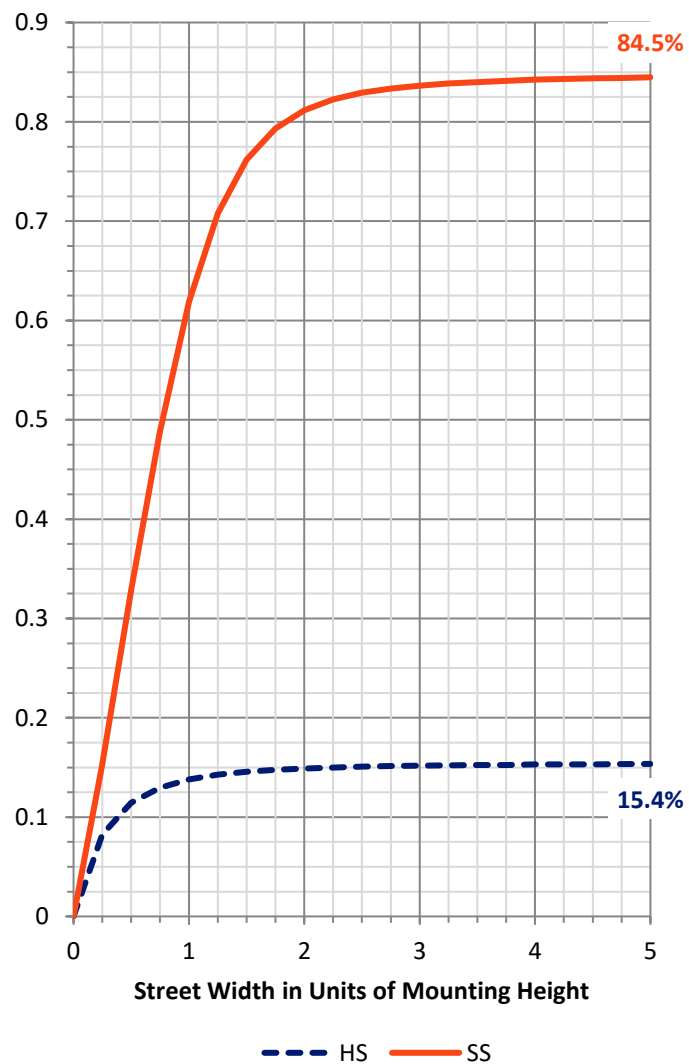
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	890.9	0.0	890.9
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	4856.1	0.0	4856.1
	% Fixture	84.5	0.0	84.5
Total	Lumens	5747.0	0.0	5747.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.1	1.8
10°-20°	317.2	5.5
20°-30°	528.0	9.2
30°-40°	796.7	13.9
40°-50°	1113.6	19.4
50°-60°	1230.0	21.4
60°-70°	1071.5	18.6
70°-80°	541.3	9.4
80°-90°	43.5	0.8
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°	5747.0	100.0
0°-180°	5747.0	100.0

Coefficient of Utilization



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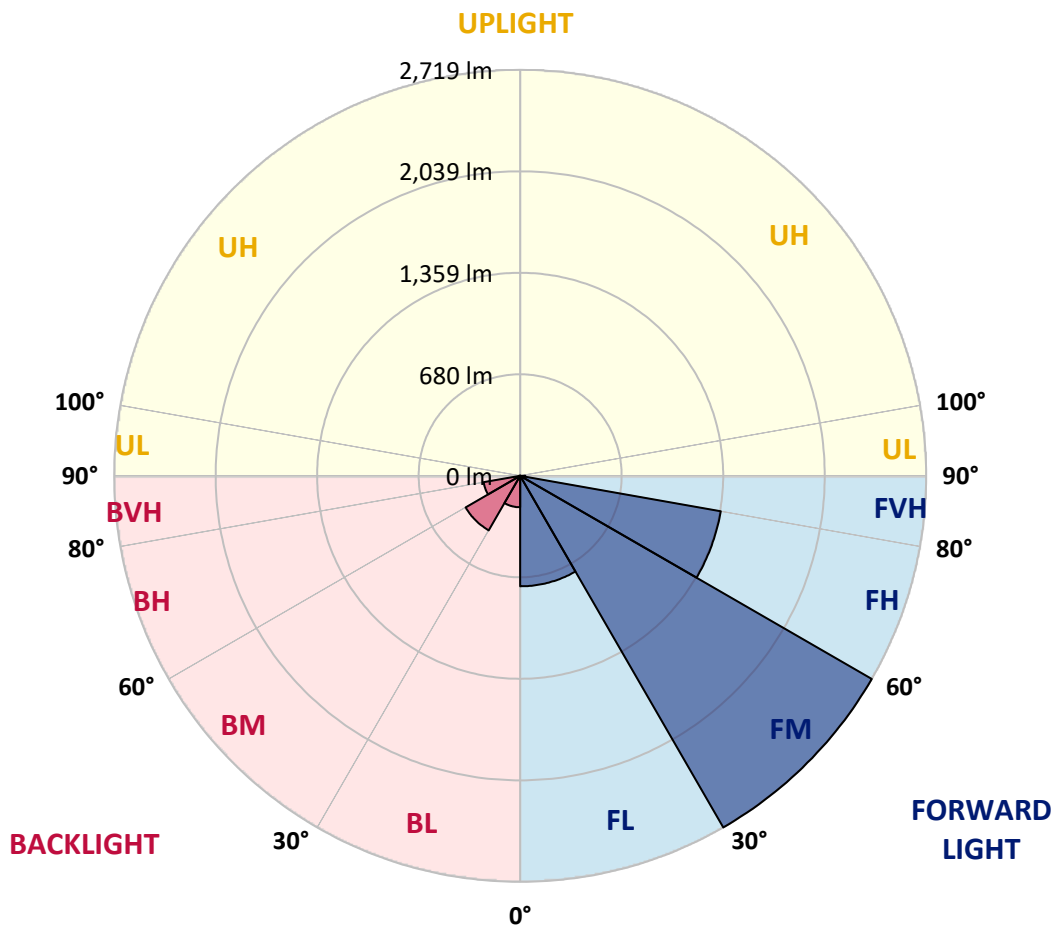
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	739.8	12.9			
FM	(30°-60°)	2718.5	47.3			
FH	(60°-80°)	1364.1	23.7			G1/1800
FVH	(80°-90°)	33.6	0.6			G1/100
BL	(0°-30°)	210.6	3.7	B1/500		
BM	(30°-60°)	421.8	7.3	B1/1000		
BH	(60°-80°)	248.7	4.3	B1/500		G1/500
BVH	(80°-90°)	9.8	0.2			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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	1088.2	1088.2	1088.2	1088.2	1088.2	1088.2	1088.2	1088.2	1088.2	1088.2	1088.2
2.5°	1238.5	1252.3	1244.7	1249.7	1224.7	1208.4	1189.6	1153.3	1133.3	1130.8	1107.0
5°	1420.1	1435.1	1422.6	1418.8	1375.0	1337.4	1294.8	1231.0	1188.4	1180.9	1128.3
7.5°	1601.6	1615.4	1600.4	1589.1	1530.3	1463.9	1401.3	1307.4	1241.0	1228.5	1145.8
10°	1729.4	1741.9	1730.6	1719.3	1658.0	1590.4	1501.4	1378.7	1288.6	1268.5	1157.1
12.5°	1825.8	1833.3	1828.3	1818.3	1760.7	1688.0	1602.9	1458.9	1342.4	1317.4	1174.6
15°	1904.7	1917.2	1910.9	1903.4	1848.3	1775.7	1694.3	1542.8	1405.0	1373.7	1200.9
17.5°	1957.3	1966.0	1967.3	1967.3	1918.4	1847.1	1768.2	1619.2	1467.6	1427.6	1226.0
20°	1981.1	1991.1	1997.3	2007.4	1967.3	1905.9	1825.8	1684.3	1526.5	1481.4	1249.7
22.5°	1992.3	2001.1	2017.4	2039.9	2007.4	1956.0	1882.1	1744.4	1585.4	1537.8	1277.3
25°	2001.1	2012.4	2036.2	2078.7	2056.2	2012.4	1948.5	1813.3	1655.5	1606.6	1317.4
27.5°	2024.9	2038.7	2061.2	2112.5	2085.0	2063.7	2018.6	1887.1	1729.4	1679.3	1366.2
30°	2107.5	2118.8	2117.6	2150.1	2116.3	2110.0	2078.7	1958.5	1800.7	1750.6	1423.8
32.5°	2257.8	2269.1	2241.5	2229.0	2155.1	2156.4	2143.9	2034.9	1885.9	1834.5	1490.2
35°	2419.4	2431.9	2395.6	2374.3	2250.3	2214.0	2220.2	2130.1	1981.1	1929.7	1572.8
37.5°	2563.4	2578.4	2547.1	2515.8	2390.5	2306.6	2305.4	2236.5	2090.0	2037.4	1664.2
40°	2642.3	2659.8	2678.6	2661.0	2529.5	2436.9	2396.8	2345.5	2197.7	2143.9	1763.2
42.5°	2679.8	2728.7	2762.5	2751.2	2643.5	2549.6	2502.0	2459.4	2329.2	2276.6	1880.9
45°	2574.6	2575.9	2647.3	2708.6	2688.6	2626.0	2617.2	2587.2	2479.5	2429.4	2013.6
47.5°	2443.1	2433.1	2483.2	2592.2	2648.5	2664.8	2716.1	2728.7	2651.0	2600.9	2148.9
50°	2127.6	2133.8	2296.6	2453.2	2563.4	2668.5	2786.3	2873.9	2827.6	2780.0	2291.6
52.5°	1730.6	1745.6	1932.2	2276.6	2450.7	2631.0	2827.6	3019.2	3007.9	2962.8	2434.4
55°	1387.5	1411.3	1609.1	1982.3	2306.6	2547.1	2845.1	3151.9	3194.5	3153.2	2574.6
57.5°	1060.7	1085.7	1252.3	1635.4	2122.6	2410.6	2832.6	3268.4	3368.6	3342.3	2703.6
60°	798.9	824.0	930.4	1326.1	1892.2	2257.8	2770.0	3344.8	3525.1	3497.5	2797.5
62.5°	572.3	592.3	671.2	1031.9	1611.6	2076.2	2616.0	3346.0	3614.0	3591.5	2842.6
65°	412.0	412.0	475.9	736.3	1348.7	1858.3	2383.0	3192.0	3595.2	3589.0	2811.3
67.5°	296.8	299.3	350.6	514.7	1075.7	1594.1	2081.2	2917.7	3450.0	3481.3	2698.6
70°	210.4	216.6	240.4	359.4	812.7	1258.5	1758.2	2558.3	3188.2	3243.3	2480.7
72.5°	162.8	166.5	182.8	250.5	593.6	935.4	1401.3	2157.6	2838.9	2901.5	2183.9
75°	125.2	129.0	141.5	184.1	425.8	656.2	995.5	1674.3	2289.1	2400.6	1754.4
77.5°	91.4	96.4	105.2	134.0	247.9	417.0	603.6	941.7	1263.5	1316.1	919.2
80°	42.6	48.8	61.4	86.4	134.0	196.6	214.1	363.2	607.3	634.9	498.4
82.5°	23.8	30.1	35.1	52.6	67.6	70.1	72.6	91.4	229.2	253.0	209.1
85°	11.3	15.0	16.3	22.5	22.5	20.0	23.8	17.5	37.6	45.1	43.8
87.5°	0.0	1.3	2.5	6.3	5.0	3.8	3.8	3.8	3.8	5.0	3.8
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°	1088.2	1088.2	1088.2	1088.2	1088.2	1088.2	1088.2	1088.2	1088.2	1088.2	1088.2
2.5°	1095.7	1079.4	1041.9	1009.3	988.0	969.2	944.2	932.9	912.9	916.6	905.4
5°	1102.0	1071.9	1005.6	944.2	899.1	859.0	815.2	790.2	762.6	760.1	751.4
7.5°	1105.7	1059.4	964.2	877.8	809.0	747.6	688.7	656.2	622.4	614.9	607.3
10°	1102.0	1040.6	921.7	809.0	717.5	641.2	574.8	533.5	498.4	489.6	482.1
12.5°	1105.7	1030.6	881.6	745.1	636.1	549.7	474.6	432.0	399.5	390.7	385.7
15°	1114.5	1024.3	847.8	687.5	563.5	467.1	393.2	356.9	330.6	321.8	319.3
17.5°	1122.0	1018.1	811.5	631.1	490.9	394.5	330.6	300.5	278.0	269.2	266.7
20°	1132.0	1009.3	775.1	577.3	427.0	336.9	280.5	254.2	236.7	230.4	229.2
22.5°	1140.8	1003.1	741.3	523.4	368.2	290.5	242.9	221.6	209.1	202.9	202.9
25°	1163.3	1005.6	712.5	473.4	324.3	254.2	214.1	197.9	187.8	184.1	184.1
27.5°	1189.6	1015.6	690.0	430.8	286.8	226.7	194.1	180.3	175.3	170.3	171.6
30°	1227.2	1035.6	675.0	395.7	259.2	205.4	177.8	167.8	162.8	161.5	161.5
32.5°	1274.8	1068.2	673.7	373.2	239.2	189.1	166.5	157.8	155.3	154.0	154.0
35°	1331.1	1097.0	666.2	363.2	226.7	177.8	157.8	151.5	150.3	150.3	150.3
37.5°	1398.8	1144.6	661.2	349.4	220.4	171.6	151.5	146.5	146.5	146.5	146.5
40°	1468.9	1183.4	653.7	336.9	217.9	167.8	147.8	141.5	141.5	141.5	141.5
42.5°	1552.8	1239.7	651.2	330.6	214.1	165.3	142.8	135.2	136.5	136.5	137.7
45°	1654.2	1303.6	649.9	324.3	212.9	162.8	137.7	129.0	130.2	129.0	129.0
47.5°	1756.9	1377.5	653.7	320.6	211.6	160.3	134.0	122.7	122.7	121.5	121.5
50°	1864.6	1445.1	656.2	316.8	209.1	155.3	127.7	117.7	115.2	112.7	114.0
52.5°	1966.0	1507.7	657.4	310.6	201.6	147.8	122.7	111.5	107.7	103.9	105.2
55°	2067.5	1567.8	659.9	303.0	191.6	140.3	116.5	105.2	100.2	95.2	95.2
57.5°	2158.9	1620.4	653.7	284.3	180.3	132.7	110.2	97.7	90.2	85.2	85.2
60°	2221.5	1658.0	634.9	256.7	165.3	124.0	103.9	90.2	81.4	77.6	77.6
62.5°	2251.5	1664.2	601.1	211.6	146.5	115.2	96.4	82.6	75.1	72.6	72.6
65°	2222.7	1636.7	548.5	159.0	126.5	105.2	88.9	76.4	68.9	62.6	62.6
67.5°	2122.6	1559.1	475.9	120.2	107.7	95.2	81.4	70.1	61.4	56.4	56.4
70°	1921.0	1397.5	368.2	96.4	91.4	82.6	73.9	62.6	55.1	48.8	48.8
72.5°	1656.7	1184.6	259.2	77.6	77.6	70.1	62.6	55.1	47.6	42.6	42.6
75°	1271.0	876.6	174.1	62.6	63.9	58.9	51.3	45.1	40.1	36.3	36.3
77.5°	693.7	433.3	106.4	46.3	47.6	45.1	40.1	36.3	33.8	30.1	30.1
80°	336.9	190.3	61.4	32.6	33.8	32.6	30.1	26.3	26.3	23.8	23.8
82.5°	141.5	71.4	32.6	22.5	22.5	20.0	18.8	18.8	18.8	17.5	17.5
85°	35.1	13.8	13.8	12.5	12.5	12.5	11.3	11.3	11.3	8.8	10.0
87.5°	5.0	5.0	5.0	5.0	5.0	5.0	3.8	1.3	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)