

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: P798852

Luminaire Tested: **ARCH1-40-727-U-T2U-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798852
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: ARCH1-40-727-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1220mA LIGHTSQUARE WITH 10 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

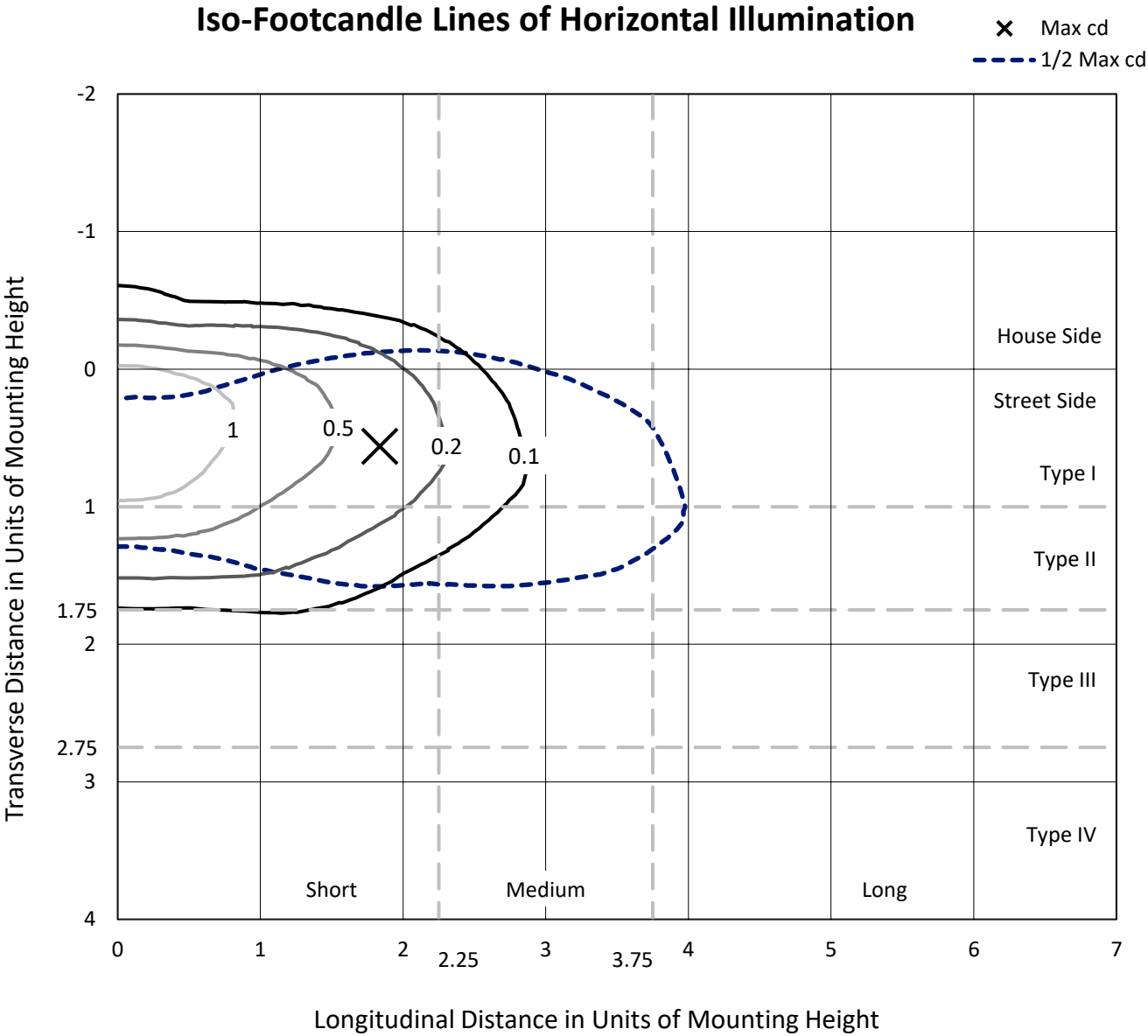
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3625 lumens
Efficiency: N/A
Efficacy: 84.3 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 43
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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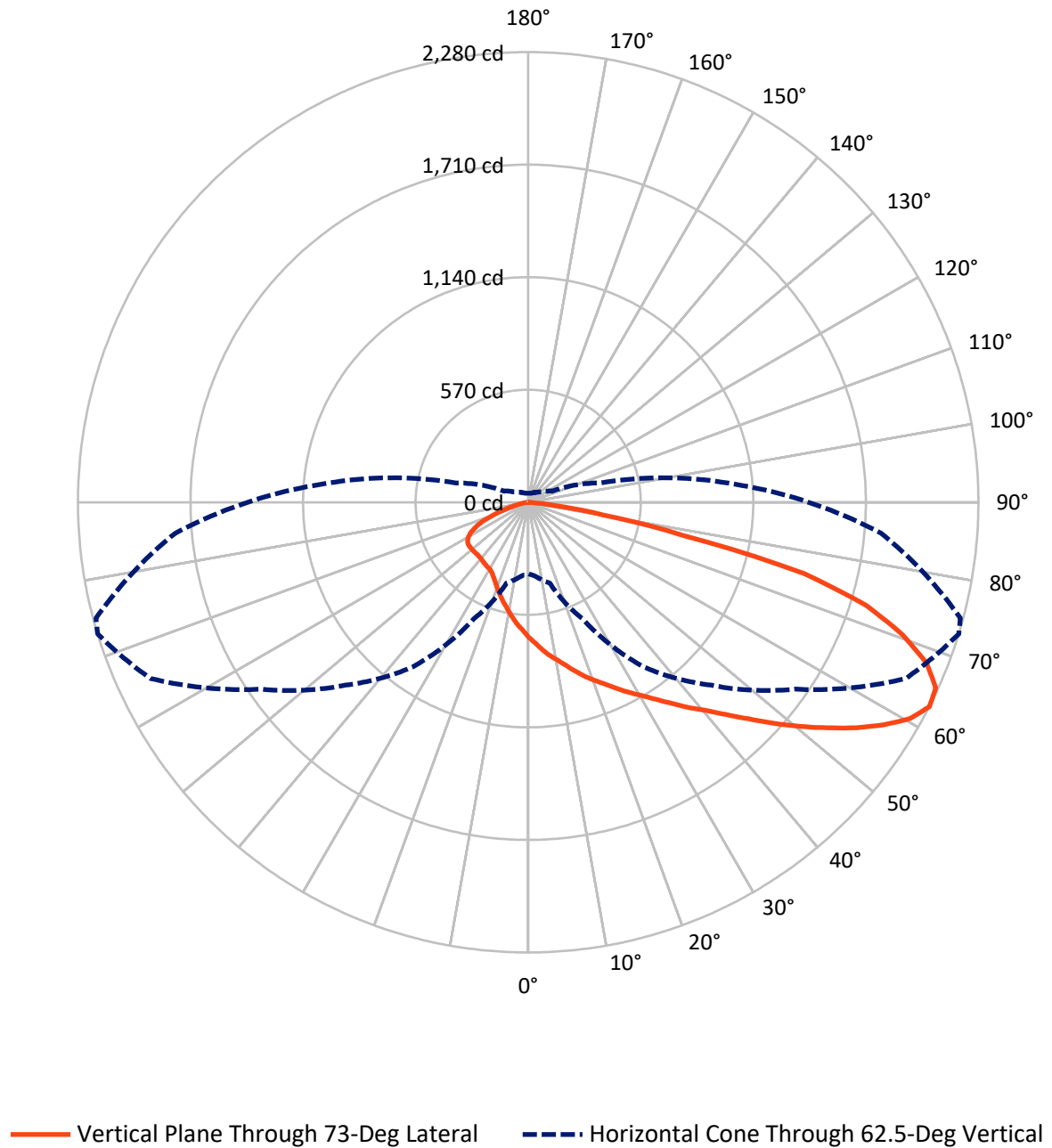


Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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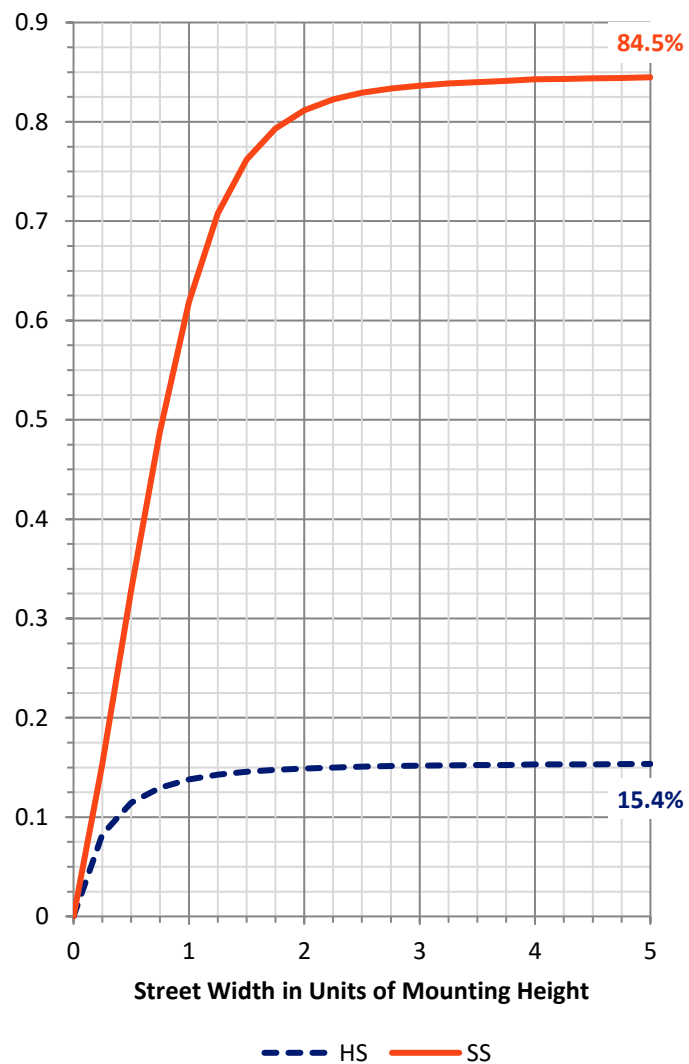
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	561.9	0.0	561.9
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	3063.1	0.0	3063.1
	% Fixture	84.5	0.0	84.5
Total	Lumens	3625.0	0.0	3625.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.3	1.8
10°-20°	200.1	5.5
20°-30°	333.1	9.2
30°-40°	502.5	13.9
40°-50°	702.4	19.4
50°-60°	775.9	21.4
60°-70°	675.9	18.6
70°-80°	341.4	9.4
80°-90°	27.4	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°	3625.0	100.0
0°-180°	3625.0	100.0

Coefficient of Utilization



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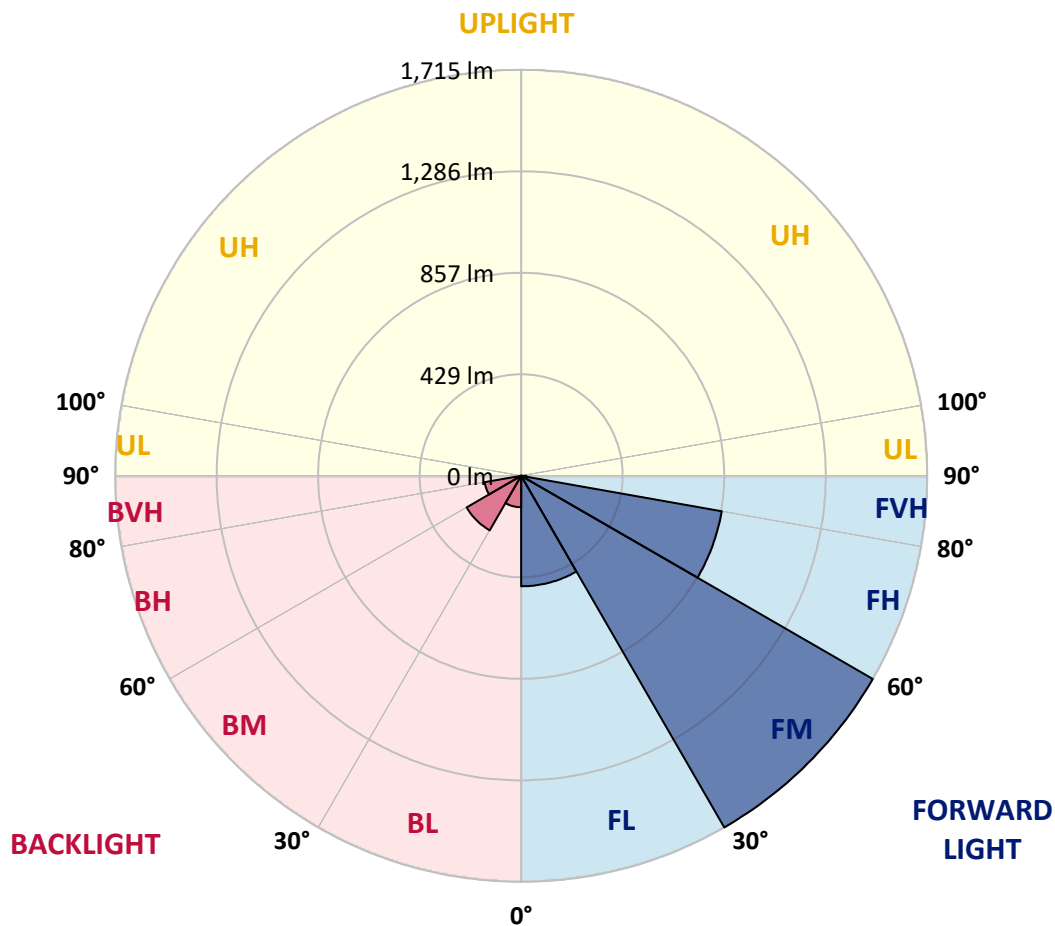
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	466.6	12.9			
FM	(30°-60°)	1714.8	47.3			
FH	(60°-80°)	860.5	23.7			G1/1800
FVH	(80°-90°)	21.2	0.6			G1/100
BL	(0°-30°)	132.8	3.7	B1/500		
BM	(30°-60°)	266.1	7.3	B1/1000		
BH	(60°-80°)	156.8	4.3	B1/500		G1/500
BVH	(80°-90°)	6.2	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°	686.4	686.4	686.4	686.4	686.4	686.4	686.4	686.4	686.4	686.4	686.4
2.5°	781.2	789.9	785.1	788.3	772.5	762.2	750.4	727.5	714.8	713.3	698.2
5°	895.7	905.2	897.3	894.9	867.3	843.6	816.7	776.4	749.6	744.9	711.7
7.5°	1010.3	1018.9	1009.5	1002.4	965.2	923.4	883.9	824.6	782.8	774.9	722.7
10°	1090.8	1098.7	1091.6	1084.5	1045.8	1003.1	947.1	869.7	812.8	800.1	729.8
12.5°	1151.6	1156.4	1153.2	1146.9	1110.6	1064.8	1011.0	920.2	846.7	830.9	740.9
15°	1201.4	1209.3	1205.3	1200.6	1165.9	1120.0	1068.7	973.1	886.2	866.5	757.5
17.5°	1234.6	1240.1	1240.9	1240.9	1210.1	1165.1	1115.3	1021.3	925.7	900.5	773.3
20°	1249.6	1255.9	1259.9	1266.2	1240.9	1202.2	1151.6	1062.4	962.9	934.4	788.3
22.5°	1256.7	1262.2	1272.5	1286.7	1266.2	1233.8	1187.2	1100.3	1000.0	970.0	805.7
25°	1262.2	1269.3	1284.3	1311.2	1297.0	1269.3	1229.0	1143.7	1044.2	1013.4	830.9
27.5°	1277.2	1285.9	1300.1	1332.5	1315.1	1301.7	1273.3	1190.3	1090.8	1059.2	861.8
30°	1329.4	1336.5	1335.7	1356.2	1334.9	1330.9	1311.2	1235.4	1135.8	1104.2	898.1
32.5°	1424.1	1431.3	1413.9	1406.0	1359.4	1360.2	1352.3	1283.5	1189.6	1157.2	940.0
35°	1526.0	1533.9	1511.0	1497.6	1419.4	1396.5	1400.4	1343.6	1249.6	1217.2	992.1
37.5°	1616.9	1626.4	1606.6	1586.9	1507.9	1454.9	1454.2	1410.7	1318.3	1285.1	1049.7
40°	1666.6	1677.7	1689.5	1678.5	1595.5	1537.1	1511.8	1479.4	1386.2	1352.3	1112.1
42.5°	1690.3	1721.1	1742.5	1735.4	1667.4	1608.2	1578.2	1551.3	1469.2	1436.0	1186.4
45°	1624.0	1624.8	1669.8	1708.5	1695.9	1656.4	1650.8	1631.9	1564.0	1532.4	1270.1
47.5°	1541.0	1534.7	1566.3	1635.0	1670.6	1680.9	1713.2	1721.1	1672.2	1640.6	1355.4
50°	1342.0	1345.9	1448.6	1547.4	1616.9	1683.2	1757.5	1812.8	1783.5	1753.5	1445.5
52.5°	1091.6	1101.1	1218.8	1436.0	1545.8	1659.5	1783.5	1904.4	1897.3	1868.8	1535.5
55°	875.2	890.2	1015.0	1250.4	1454.9	1606.6	1794.6	1988.1	2015.0	1988.9	1624.0
57.5°	669.0	684.8	789.9	1031.6	1338.8	1520.5	1786.7	2061.6	2124.8	2108.2	1705.3
60°	503.9	519.7	586.9	836.5	1193.5	1424.1	1747.2	2109.8	2223.5	2206.1	1764.6
62.5°	361.0	373.6	423.4	650.9	1016.6	1309.6	1650.0	2110.5	2279.6	2265.4	1793.0
65°	259.9	259.9	300.2	464.4	850.7	1172.2	1503.1	2013.4	2267.7	2263.8	1773.3
67.5°	187.2	188.8	221.2	324.6	678.5	1005.5	1312.8	1840.4	2176.1	2195.9	1702.2
70°	132.7	136.6	151.7	226.7	512.6	793.8	1109.0	1613.7	2011.0	2045.8	1564.7
72.5°	102.7	105.1	115.3	158.0	374.4	590.0	883.9	1361.0	1790.6	1830.1	1377.5
75°	79.0	81.4	89.3	116.1	268.6	413.9	628.0	1056.1	1443.9	1514.2	1106.6
77.5°	57.7	60.8	66.3	84.5	156.4	263.0	380.7	594.0	797.0	830.2	579.8
80°	26.9	30.8	38.7	54.5	84.5	124.0	135.1	229.1	383.1	400.5	314.4
82.5°	15.0	19.0	22.1	33.2	42.7	44.2	45.8	57.7	144.5	159.6	131.9
85°	7.1	9.5	10.3	14.2	14.2	12.6	15.0	11.1	23.7	28.4	27.6
87.5°	0.0	0.8	1.6	3.9	3.2	2.4	2.4	2.4	2.4	3.2	2.4
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°	686.4	686.4	686.4	686.4	686.4	686.4	686.4	686.4	686.4	686.4	686.4
2.5°	691.1	680.9	657.2	636.6	623.2	611.4	595.6	588.5	575.8	578.2	571.1
5°	695.1	676.1	634.3	595.6	567.1	541.9	514.2	498.4	481.0	479.5	473.9
7.5°	697.5	668.2	608.2	553.7	510.3	471.6	434.4	413.9	392.6	387.8	383.1
10°	695.1	656.4	581.3	510.3	452.6	404.4	362.6	336.5	314.4	308.8	304.1
12.5°	697.5	650.1	556.1	470.0	401.3	346.8	299.4	272.5	252.0	246.4	243.3
15°	703.0	646.1	534.7	433.6	355.4	294.6	248.0	225.1	208.5	203.0	201.4
17.5°	707.7	642.2	511.8	398.1	309.6	248.8	208.5	189.6	175.4	169.8	168.2
20°	714.0	636.6	488.9	364.1	269.3	212.5	176.9	160.3	149.3	145.3	144.5
22.5°	719.6	632.7	467.6	330.2	232.2	183.3	153.2	139.8	131.9	128.0	128.0
25°	733.8	634.3	449.4	298.6	204.6	160.3	135.1	124.8	118.5	116.1	116.1
27.5°	750.4	640.6	435.2	271.7	180.9	143.0	122.4	113.7	110.6	107.4	108.2
30°	774.1	653.2	425.7	249.6	163.5	129.5	112.2	105.8	102.7	101.9	101.9
32.5°	804.1	673.8	425.0	235.4	150.9	119.3	105.1	99.5	97.9	97.2	97.2
35°	839.6	691.9	420.2	229.1	143.0	112.2	99.5	95.6	94.8	94.8	94.8
37.5°	882.3	721.9	417.1	220.4	139.0	108.2	95.6	92.4	92.4	92.4	92.4
40°	926.5	746.4	412.3	212.5	137.4	105.8	93.2	89.3	89.3	89.3	89.3
42.5°	979.4	782.0	410.7	208.5	135.1	104.3	90.0	85.3	86.1	86.1	86.9
45°	1043.4	822.3	409.9	204.6	134.3	102.7	86.9	81.4	82.1	81.4	81.4
47.5°	1108.2	868.9	412.3	202.2	133.5	101.1	84.5	77.4	77.4	76.6	76.6
50°	1176.1	911.5	413.9	199.8	131.9	97.9	80.6	74.2	72.7	71.1	71.9
52.5°	1240.1	951.0	414.7	195.9	127.2	93.2	77.4	70.3	67.9	65.6	66.3
55°	1304.1	988.9	416.3	191.1	120.9	88.5	73.5	66.3	63.2	60.0	60.0
57.5°	1361.7	1022.1	412.3	179.3	113.7	83.7	69.5	61.6	56.9	53.7	53.7
60°	1401.2	1045.8	400.5	161.9	104.3	78.2	65.6	56.9	51.3	49.0	49.0
62.5°	1420.2	1049.7	379.1	133.5	92.4	72.7	60.8	52.1	47.4	45.8	45.8
65°	1402.0	1032.4	346.0	100.3	79.8	66.3	56.1	48.2	43.4	39.5	39.5
67.5°	1338.8	983.4	300.2	75.8	67.9	60.0	51.3	44.2	38.7	35.5	35.5
70°	1211.7	881.5	232.2	60.8	57.7	52.1	46.6	39.5	34.8	30.8	30.8
72.5°	1045.0	747.2	163.5	49.0	49.0	44.2	39.5	34.8	30.0	26.9	26.9
75°	801.7	552.9	109.8	39.5	40.3	37.1	32.4	28.4	25.3	22.9	22.9
77.5°	437.6	273.3	67.1	29.2	30.0	28.4	25.3	22.9	21.3	19.0	19.0
80°	212.5	120.1	38.7	20.5	21.3	20.5	19.0	16.6	16.6	15.0	15.0
82.5°	89.3	45.0	20.5	14.2	14.2	12.6	11.8	11.8	11.8	11.1	11.1
85°	22.1	8.7	8.7	7.9	7.9	7.9	7.1	7.1	7.1	5.5	6.3
87.5°	3.2	3.2	3.2	3.2	3.2	3.2	2.4	0.8	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)