

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: P1210693

Luminaire Tested: **ARCH3-40-740-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210693
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-40-740-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 345mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7409 lumens
Efficiency: N/A
Efficacy: 169.9 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 43.6
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

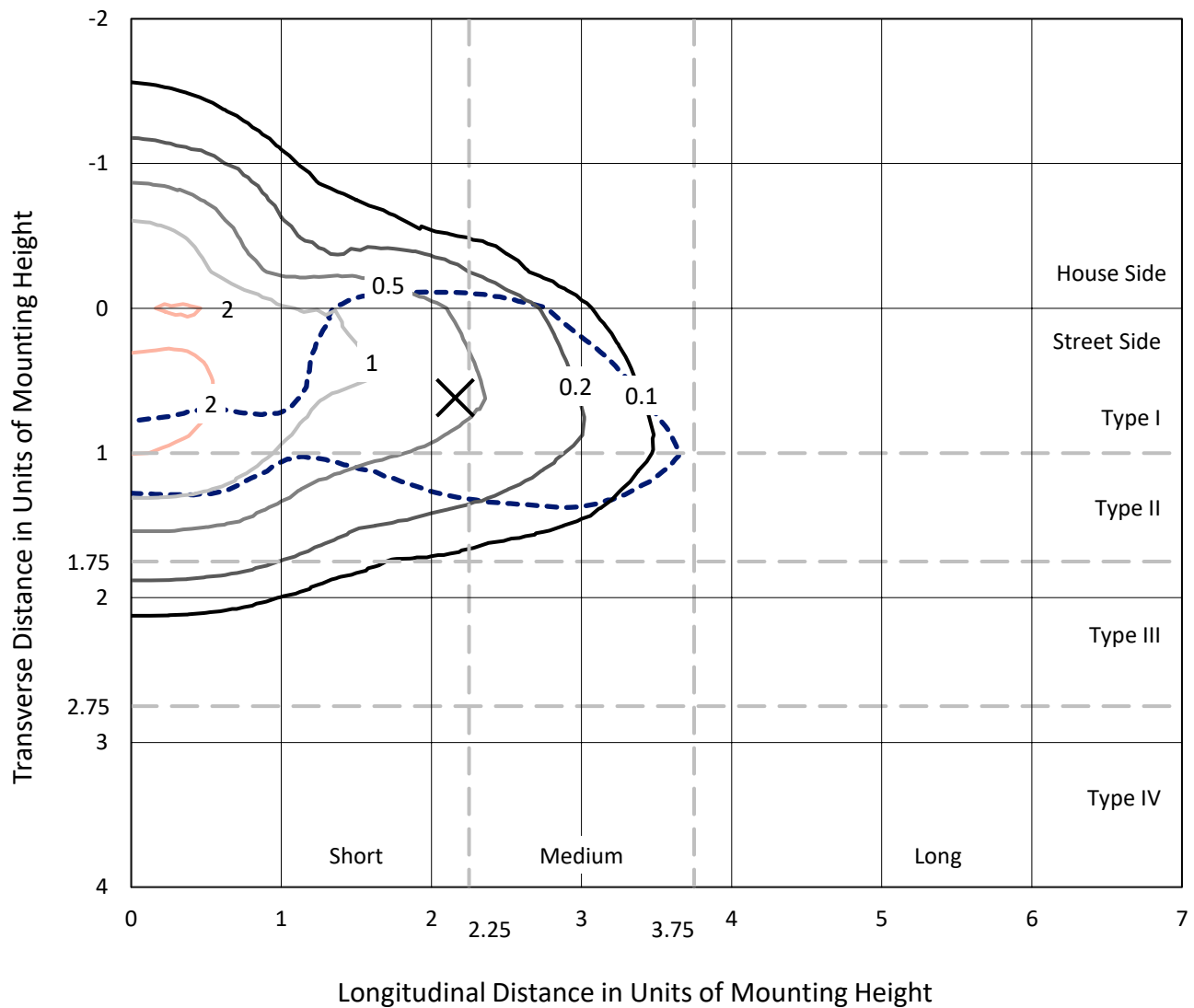


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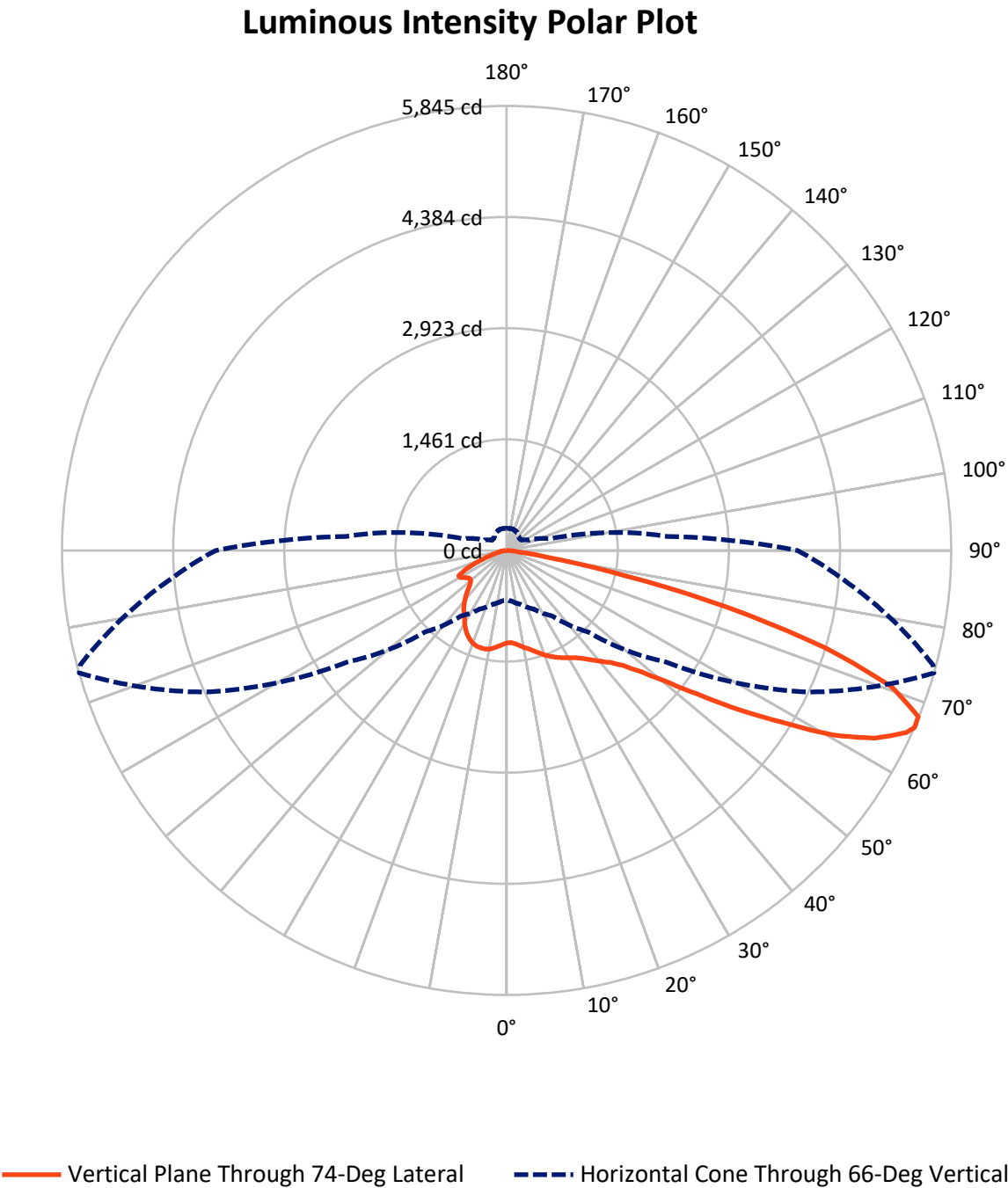
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1804.3	0.0	1804.3
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	5604.7	0.0	5604.7
	% Fixture	75.6	0.0	75.6
Total	Lumens	7409.0	0.0	7409.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.9	1.6
10°-20°	356.3	4.8
20°-30°	668.6	9.0
30°-40°	1028.4	13.9
40°-50°	1383.3	18.7
50°-60°	1636.0	22.1
60°-70°	1513.4	20.4
70°-80°	636.7	8.6
80°-90°	70.4	1.0
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°	7409.0	100.0
0°-180°	7409.0	100.0

Coefficient of Utilization



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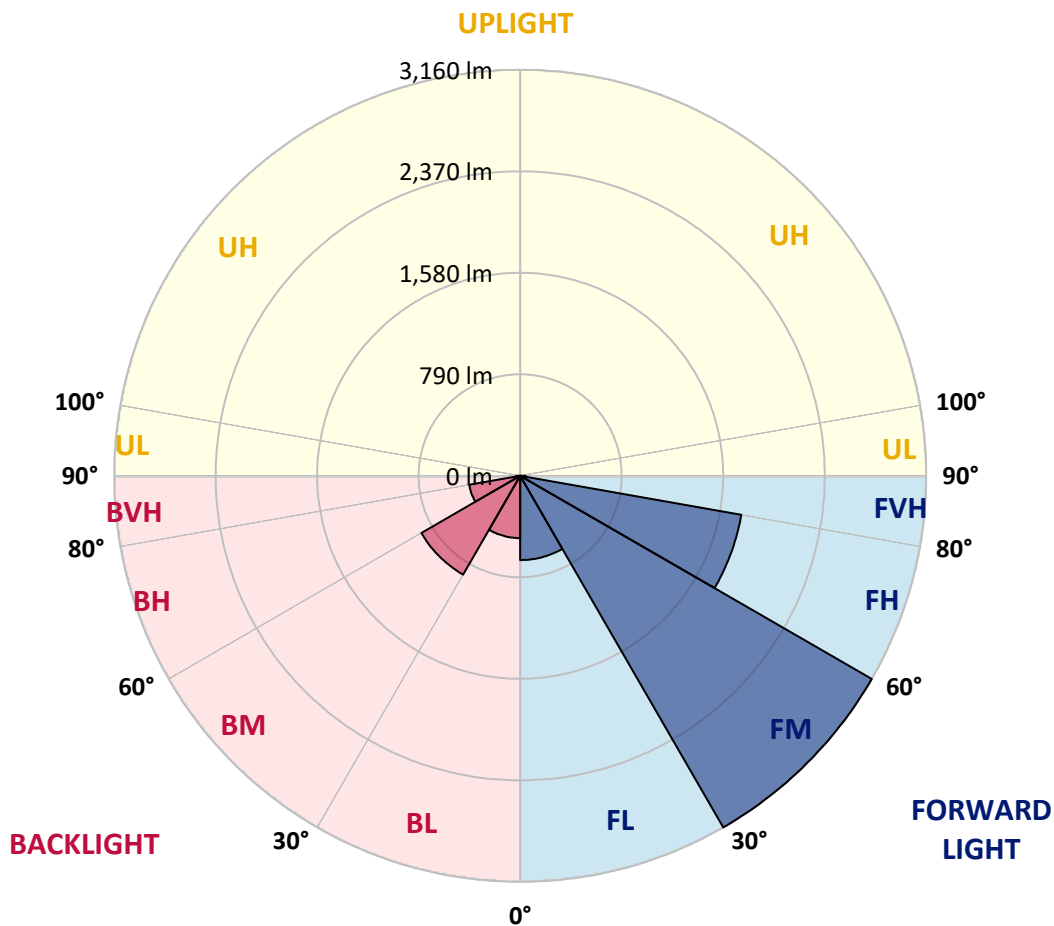
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	655.8	8.9			
FM	(30°-60°)	3159.5	42.6			
FH	(60°-80°)	1747.2	23.6			G1/1800
FVH	(80°-90°)	42.2	0.6			G1/100
BL	(0°-30°)	485.0	6.5	B1/500		
BM	(30°-60°)	888.3	12.0	B1/1000		
BH	(60°-80°)	402.8	5.4	B1/500		G1/500
BVH	(80°-90°)	28.3	0.4			G1/100
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°	74°	75°	85°
0°	1214.6	1214.6	1214.6	1214.6	1214.6	1214.6	1214.6	1214.6	1214.6	1214.6	1214.6
2.5°	1210.8	1208.9	1212.7	1218.4	1221.3	1216.5	1214.6	1213.6	1213.6	1210.8	1215.5
5°	1153.6	1152.6	1161.2	1171.7	1191.7	1206.0	1225.1	1236.5	1232.7	1227.0	1230.8
7.5°	1079.2	1077.3	1087.8	1107.8	1135.5	1166.9	1213.6	1249.9	1264.2	1262.2	1261.3
10°	1107.8	1105.9	1104.9	1099.2	1108.8	1139.3	1187.9	1251.8	1300.4	1301.3	1302.3
12.5°	1207.0	1211.7	1207.0	1188.8	1167.9	1156.4	1185.0	1256.5	1330.9	1336.6	1360.4
15°	1342.3	1337.6	1328.0	1307.1	1274.6	1240.3	1219.3	1278.5	1374.7	1379.5	1431.9
17.5°	1461.5	1465.3	1459.6	1439.6	1401.4	1356.6	1292.8	1316.6	1421.5	1434.8	1508.2
20°	1591.2	1606.4	1598.8	1574.0	1542.5	1475.8	1395.7	1371.9	1472.9	1482.5	1587.3
22.5°	1740.8	1757.0	1742.7	1718.9	1693.2	1611.2	1508.2	1439.6	1515.8	1535.9	1663.6
25°	1920.1	1935.3	1922.0	1884.8	1852.4	1752.3	1629.3	1515.8	1557.8	1579.7	1725.6
27.5°	2062.1	2073.6	2086.0	2064.0	2014.5	1910.5	1755.1	1595.0	1599.7	1622.6	1782.8
30°	2188.9	2217.5	2228.0	2230.9	2188.9	2072.6	1883.8	1677.0	1636.0	1659.8	1840.0
32.5°	2362.4	2405.3	2388.2	2405.3	2380.5	2225.1	2017.3	1761.8	1682.7	1704.6	1894.3
35°	2616.0	2650.3	2605.5	2592.2	2552.1	2379.6	2146.0	1849.5	1744.6	1768.5	1945.8
37.5°	2888.7	2927.8	2862.9	2809.6	2733.3	2532.1	2256.6	1964.9	1830.5	1849.5	1993.5
40°	3127.0	3159.4	3103.2	3032.6	2904.9	2666.5	2351.9	2045.9	1916.3	1940.1	2048.8
42.5°	3347.2	3368.2	3305.3	3237.6	3067.0	2787.6	2454.9	2131.7	2016.4	2039.2	2093.6
45°	3570.3	3586.5	3498.8	3402.5	3202.3	2898.2	2568.4	2251.8	2163.2	2193.7	2166.0
47.5°	3610.4	3615.1	3599.9	3535.1	3309.1	3004.0	2708.5	2413.0	2387.2	2420.6	2290.9
50°	3332.9	3375.8	3470.2	3534.1	3352.0	3092.7	2848.6	2643.7	2696.1	2739.0	2550.2
52.5°	2794.3	2835.3	3053.6	3295.8	3249.1	3112.7	2999.3	2936.4	3131.8	3183.3	2903.0
55°	2226.1	2262.3	2493.0	2842.0	2916.3	3021.2	3160.4	3310.1	3687.6	3721.9	3290.0
57.5°	1833.3	1853.3	2018.3	2353.8	2473.0	2728.5	3247.1	3754.3	4252.9	4305.4	3626.6
60°	1503.4	1525.4	1648.4	1924.8	2083.1	2310.0	3178.5	4192.9	4927.9	4927.9	4058.5
62.5°	1131.6	1150.7	1265.1	1481.5	1747.5	1955.3	2959.2	4483.7	5437.0	5414.1	4371.2
65°	777.0	792.2	875.2	1019.1	1258.4	1666.5	2659.9	4487.5	5774.5	5744.0	4504.6
66°	652.1	665.4	736.0	852.3	1053.5	1512.0	2554.1	4406.4	5845.1	5802.2	4448.4
67.5°	514.8	524.3	571.1	639.7	772.2	1224.1	2387.2	4176.7	5838.4	5812.6	4305.4
70°	368.0	374.7	409.0	423.3	456.7	708.3	1896.2	3658.0	5370.3	5377.9	3742.9
72.5°	285.1	295.5	316.5	319.4	311.7	376.6	1150.7	3051.7	4393.1	4390.2	2778.1
75°	229.8	235.5	246.0	251.7	249.8	243.1	487.2	2276.6	3024.1	3059.3	1555.9
77.5°	181.1	180.2	189.7	197.3	203.1	190.7	223.1	1334.7	1585.4	1540.6	584.4
80°	133.5	133.5	146.8	149.7	158.3	160.2	148.7	514.8	544.4	494.8	151.6
82.5°	87.7	87.7	102.0	103.9	112.5	124.9	107.7	154.4	150.6	143.0	68.6
85°	47.7	45.8	50.5	57.2	62.0	73.4	64.8	77.2	79.1	78.2	45.8
87.5°	9.5	8.6	13.3	15.3	17.2	22.9	21.0	31.5	43.9	42.9	20.0
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°	1214.6	1214.6	1214.6	1214.6	1214.6	1214.6	1214.6	1214.6	1214.6	1214.6	1214.6
2.5°	1222.2	1221.3	1231.7	1244.1	1258.4	1267.0	1270.8	1277.5	1272.7	1274.6	1280.4
5°	1240.3	1243.2	1258.4	1274.6	1281.3	1276.5	1266.1	1262.2	1253.7	1251.8	1249.9
7.5°	1267.0	1271.8	1287.0	1290.9	1270.8	1237.5	1213.6	1200.3	1186.0	1182.2	1180.3
10°	1310.9	1313.7	1317.5	1278.5	1228.9	1184.1	1154.5	1142.1	1132.6	1125.0	1126.9
12.5°	1366.2	1364.3	1334.7	1253.7	1183.1	1137.4	1117.3	1109.7	1103.0	1098.3	1097.3
15°	1435.8	1422.4	1337.6	1219.3	1140.2	1102.1	1087.8	1084.9	1077.3	1077.3	1076.3
17.5°	1506.3	1472.0	1335.7	1183.1	1099.2	1078.3	1069.7	1067.8	1065.9	1064.9	1067.8
20°	1576.9	1515.8	1320.4	1138.3	1070.6	1058.2	1056.3	1057.3	1055.4	1058.2	1056.3
22.5°	1638.8	1544.4	1291.8	1090.6	1050.6	1049.7	1044.9	1046.8	1053.5	1054.4	1057.3
25°	1686.5	1554.9	1249.9	1046.8	1036.3	1034.4	1040.1	1047.7	1053.5	1054.4	1059.2
27.5°	1725.6	1549.2	1197.4	1012.5	1011.5	1022.0	1039.2	1042.0	1043.0	1043.0	1039.2
30°	1755.1	1536.8	1130.7	974.3	979.1	1004.8	1021.0	1021.0	1013.4	1011.5	1017.2
32.5°	1761.8	1520.6	1058.2	935.2	942.9	973.4	993.4	986.7	978.1	978.1	982.0
35°	1767.5	1498.7	1000.1	881.9	893.3	929.5	948.6	935.2	925.7	922.9	921.9
37.5°	1765.6	1490.1	947.6	814.2	829.4	864.7	877.1	864.7	850.4	843.7	852.3
40°	1767.5	1484.4	881.9	739.8	755.1	776.0	792.2	782.7	769.4	752.2	760.8
42.5°	1779.0	1492.0	809.4	667.4	667.4	678.8	706.4	699.8	667.4	660.7	668.3
45°	1840.0	1533.0	736.9	594.9	584.4	592.0	620.6	592.0	572.0	572.0	578.7
47.5°	1987.8	1609.3	673.1	531.0	506.2	521.5	529.1	502.4	487.2	483.4	490.0
50°	2289.0	1761.8	634.9	478.6	448.1	459.5	454.8	453.8	438.5	440.5	444.3
52.5°	2746.6	2059.3	623.5	452.8	414.7	417.6	412.8	414.7	411.9	421.4	424.2
55°	3245.2	2372.9	637.8	456.7	391.8	371.8	373.7	383.3	394.7	409.9	412.8
57.5°	3618.0	2530.2	675.0	482.4	363.2	332.7	337.5	355.6	377.5	389.9	396.6
60°	3895.4	2511.2	729.3	489.1	328.9	297.4	306.0	332.7	351.8	362.3	369.0
62.5°	3986.0	2392.0	742.7	440.5	284.1	264.1	285.1	312.7	321.3	332.7	337.5
65°	3911.6	2223.2	645.4	357.5	249.8	239.3	269.8	290.8	302.2	307.9	308.9
66°	3823.9	2122.2	593.0	325.1	237.4	231.7	264.1	281.2	292.7	291.7	292.7
67.5°	3631.4	1910.5	508.1	279.3	219.3	220.2	254.5	266.0	269.8	266.9	266.9
70°	2976.4	1345.2	364.2	211.6	192.6	205.9	228.8	231.7	240.2	236.4	236.4
72.5°	1835.2	660.7	244.1	162.1	171.6	192.6	191.6	201.2	221.2	226.9	230.7
75°	901.9	267.9	161.1	137.3	153.5	161.1	159.2	183.0	211.6	236.4	245.0
77.5°	342.3	133.5	112.5	120.1	123.9	121.1	126.8	165.9	211.6	256.5	265.0
80°	105.8	92.5	88.7	99.1	93.4	88.7	95.3	137.3	179.2	194.5	194.5
82.5°	63.9	72.5	68.6	67.7	62.9	63.9	68.6	98.2	138.2	144.9	144.9
85°	44.8	47.7	39.1	37.2	36.2	35.3	35.3	57.2	82.0	81.0	83.9
87.5°	17.2	19.1	14.3	14.3	13.3	9.5	7.6	9.5	9.5	6.7	4.8
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)