

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: P798741

Luminaire Tested: **ARCH1-30-730-U-T2U**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798741
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH1-30-730-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 950mA LIGHTSQUARE WITH 10 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4524 lumens
Efficiency: N/A
Efficacy: 137.1 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

Input Watts (W): 33
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



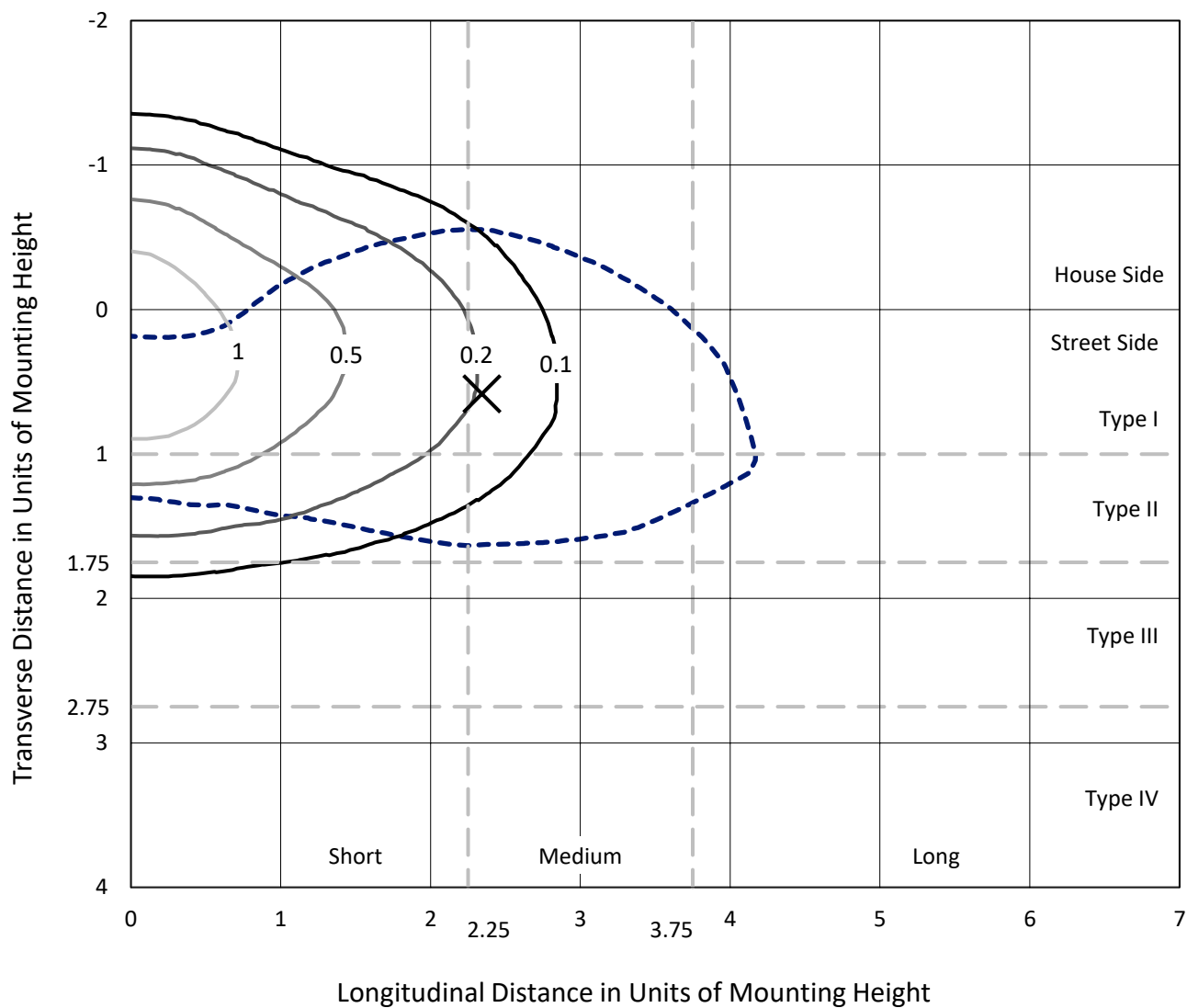
REPORT NUMBER: P798741

CATALOG NUMBER: ARCH1-30-730-U-T2U

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

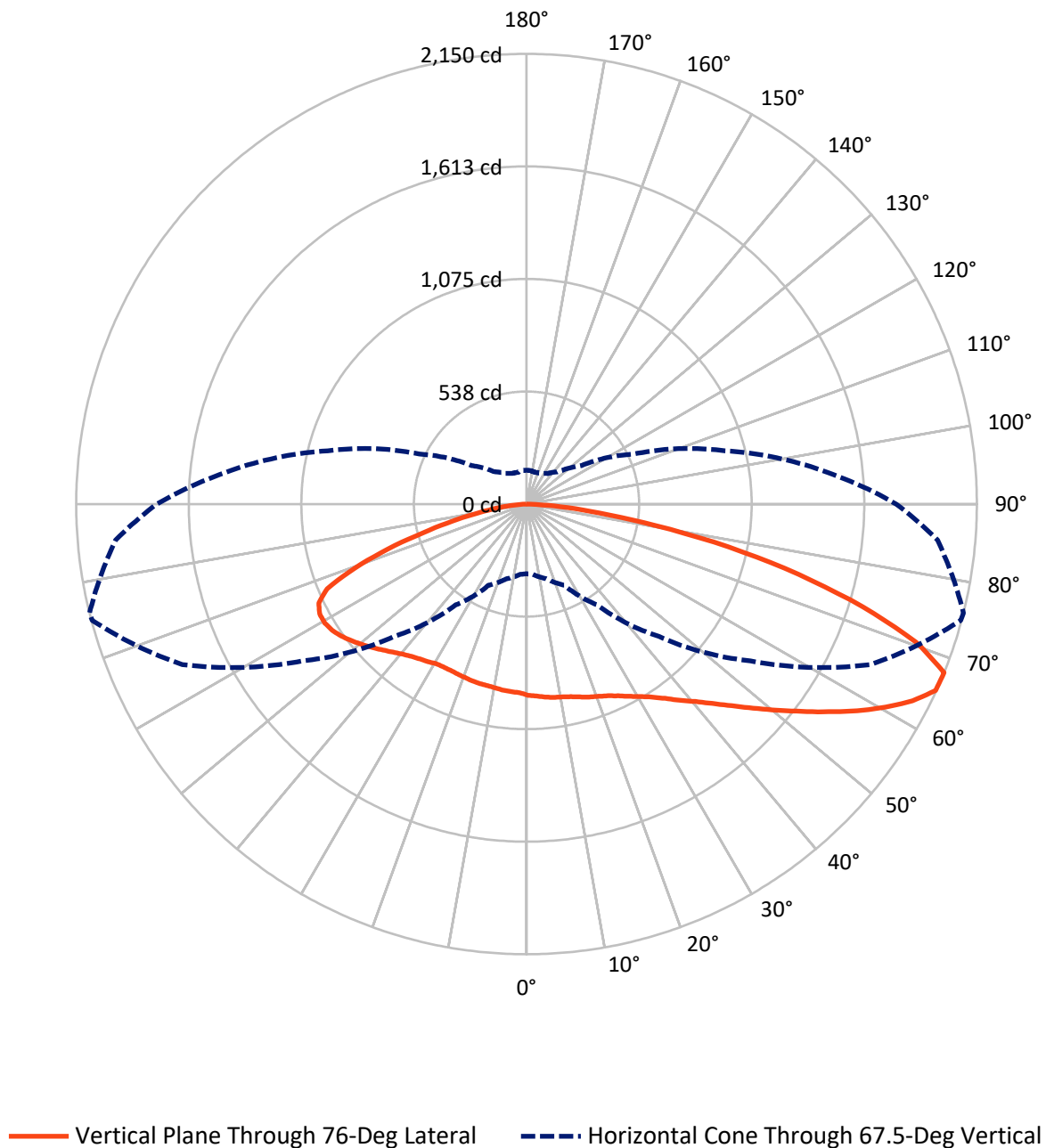


Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type II - Medium - N/A

REPORT NUMBER: P798741

CATALOG NUMBER: ARCH1-30-730-U-T2U

Luminous Intensity Polar Plot



REPORT NUMBER: P798741

CATALOG NUMBER: ARCH1-30-730-U-T2U

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1528.7	0.0	1528.7
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	2995.3	0.0	2995.3
	% Fixture	66.2	0.0	66.2
Total	Lumens	4524.0	0.0	4524.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.1	1.9
10°-20°	269.4	6.0
20°-30°	457.7	10.1
30°-40°	651.3	14.4
40°-50°	822.5	18.2
50°-60°	890.5	19.7
60°-70°	828.3	18.3
70°-80°	444.9	9.8
80°-90°	71.3	1.6
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°	4524.0	100.0
0°-180°	4524.0	100.0

Coefficient of Utilization



REPORT NUMBER: P798741

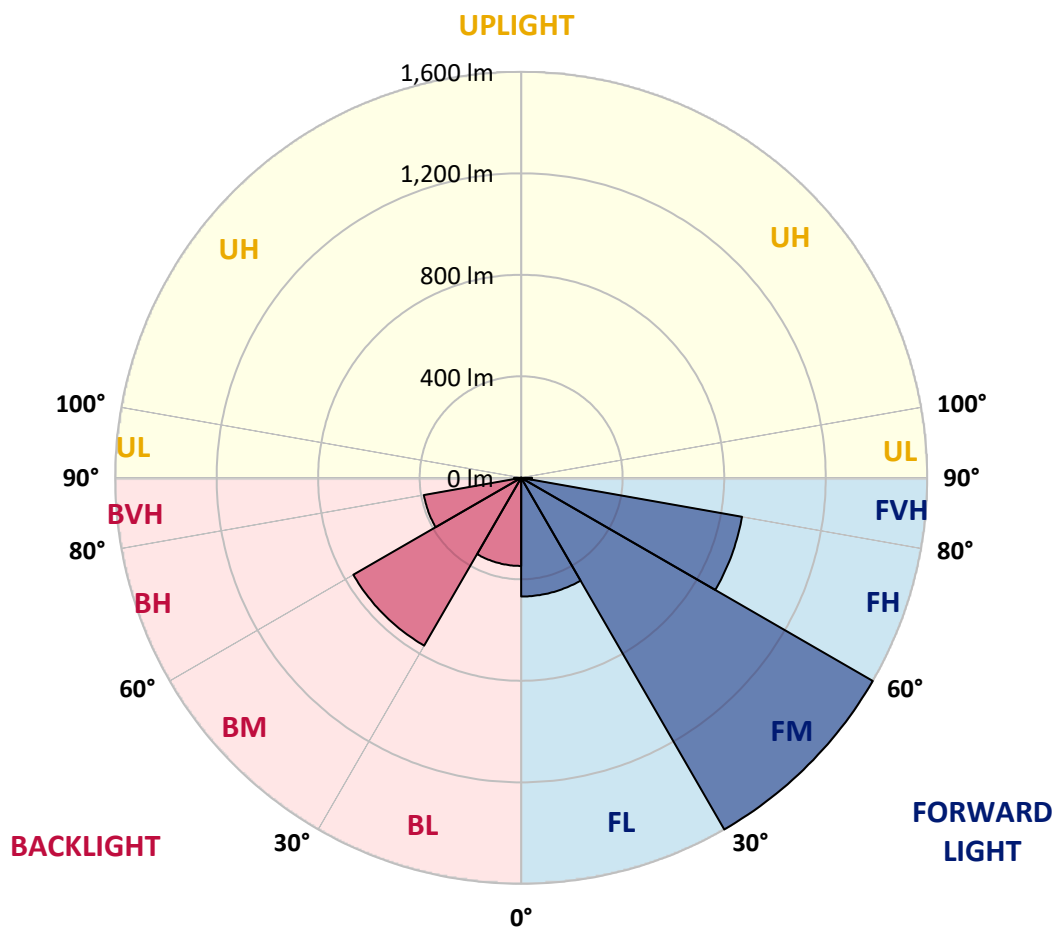
CATALOG NUMBER: ARCH1-30-730-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	467.8	10.3			
FM	(30°-60°)	1600.4	35.4			
FH	(60°-80°)	883.9	19.5			G1/1800
FVH	(80°-90°)	43.1	1.0			G1/100
BL	(0°-30°)	347.4	7.7	B1/500		
BM	(30°-60°)	763.9	16.9	B1/1000		
BH	(60°-80°)	389.2	8.6	B1/500		G1/500
BVH	(80°-90°)	28.2	0.6			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 Medium



REPORT NUMBER: P798741

CATALOG NUMBER: ARCH1-30-730-U-T2U

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	913.8	913.8	913.8	913.8	913.8	913.8	913.8	913.8	913.8	913.8	913.8
2.5°	941.6	939.9	933.2	934.0	934.0	933.2	923.1	918.9	918.9	918.0	908.8
5°	975.2	972.6	965.1	963.4	960.0	955.8	939.9	930.6	926.4	925.6	913.0
7.5°	1014.6	1011.3	1002.0	997.0	988.6	977.7	957.5	943.2	933.2	932.3	914.7
10°	1054.1	1050.7	1039.8	1030.6	1018.8	1001.2	975.2	954.2	938.2	936.5	915.5
12.5°	1101.1	1097.8	1084.3	1072.6	1054.9	1031.4	997.0	968.4	946.6	944.1	918.0
15°	1150.7	1145.7	1132.2	1118.8	1096.9	1066.7	1025.5	987.8	960.0	955.8	925.6
17.5°	1191.9	1185.1	1174.2	1160.8	1136.4	1101.1	1054.1	1007.1	972.6	969.3	933.2
20°	1227.1	1222.1	1210.3	1197.7	1171.7	1133.1	1081.0	1026.4	984.4	980.2	939.0
22.5°	1260.7	1254.0	1247.3	1238.0	1209.5	1166.7	1112.1	1049.9	999.5	994.5	946.6
25°	1299.4	1291.8	1289.3	1284.2	1250.6	1207.0	1149.9	1079.3	1020.5	1014.6	960.0
27.5°	1347.2	1338.8	1333.8	1333.8	1293.5	1248.1	1190.2	1113.7	1044.9	1039.8	976.8
30°	1397.6	1387.6	1380.0	1380.0	1334.6	1289.3	1229.6	1148.2	1072.6	1066.7	998.7
32.5°	1442.2	1432.1	1423.7	1422.8	1375.8	1330.4	1270.8	1186.0	1106.2	1098.6	1025.5
35°	1476.6	1467.3	1459.8	1461.5	1417.0	1372.4	1317.0	1236.4	1148.2	1139.8	1060.8
37.5°	1497.6	1494.2	1490.0	1495.9	1454.7	1412.8	1364.9	1285.1	1196.1	1188.5	1104.5
40°	1508.5	1506.0	1522.8	1530.3	1486.7	1448.9	1412.8	1335.5	1248.1	1239.7	1154.9
42.5°	1524.5	1545.5	1552.2	1550.5	1510.2	1476.6	1456.4	1390.1	1309.4	1301.9	1215.4
45°	1467.3	1462.3	1499.3	1519.4	1511.9	1494.2	1497.6	1455.6	1380.8	1373.3	1285.1
47.5°	1390.9	1384.2	1405.2	1454.7	1484.1	1500.9	1534.5	1523.6	1463.1	1456.4	1366.6
50°	1229.6	1238.9	1317.0	1383.4	1441.3	1499.3	1565.6	1596.7	1553.9	1547.1	1453.9
52.5°	1050.7	1060.0	1141.5	1294.3	1389.2	1486.7	1588.3	1669.8	1652.1	1644.6	1547.1
55°	920.6	940.7	1033.1	1144.0	1315.3	1447.2	1601.7	1744.5	1758.0	1751.2	1648.8
57.5°	791.2	806.3	876.0	974.3	1214.5	1378.3	1600.9	1814.2	1868.8	1862.1	1752.1
60°	639.2	658.5	713.9	819.8	1080.1	1296.0	1577.4	1868.8	1975.5	1970.5	1852.0
62.5°	535.0	540.9	580.4	671.9	907.1	1191.9	1524.5	1898.2	2072.1	2068.7	1941.9
65°	430.9	431.7	467.8	544.3	740.0	1062.5	1434.6	1887.3	2145.2	2146.8	2006.6
67.5°	332.6	336.8	369.6	427.5	587.9	894.5	1306.1	1813.4	2146.0	2150.2	1969.6
70°	230.1	233.5	283.1	339.3	454.4	713.1	1132.2	1617.7	1969.6	1973.0	1765.5
72.5°	162.1	163.8	216.7	271.3	355.3	537.6	854.2	1338.0	1679.0	1681.5	1485.0
75°	120.9	122.6	152.9	205.8	272.1	372.1	583.7	1024.7	1341.4	1341.4	1172.5
77.5°	85.7	86.5	99.1	141.9	181.4	251.1	351.1	671.1	984.4	986.1	854.2
80°	58.0	58.8	64.7	95.8	113.4	136.1	190.7	351.9	620.7	623.2	542.6
82.5°	30.2	31.9	36.1	48.7	57.1	75.6	98.3	178.9	343.5	350.2	325.9
85°	11.8	11.8	13.4	16.0	21.0	29.4	45.4	68.0	155.4	160.4	143.6
87.5°	4.2	4.2	5.0	5.0	5.9	6.7	7.6	10.1	17.6	17.6	16.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P798741

CATALOG NUMBER: ARCH1-30-730-U-T2U

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	913.8	913.8	913.8	913.8	913.8	913.8	913.8	913.8	913.8	913.8	913.8
2.5°	905.4	905.4	901.2	902.9	902.1	900.4	898.7	901.2	898.7	892.8	892.0
5°	907.1	905.4	898.7	897.9	895.4	892.0	887.8	889.5	885.3	880.2	879.4
7.5°	908.0	904.6	895.4	892.0	887.0	880.2	873.5	873.5	867.6	862.6	861.8
10°	906.3	902.1	889.5	882.8	873.5	863.4	854.2	851.7	845.0	839.1	839.1
12.5°	907.1	901.2	885.3	874.4	861.8	849.2	837.4	834.0	828.2	822.3	821.4
15°	912.2	903.8	883.6	869.3	850.8	836.6	824.0	821.4	816.4	812.2	812.2
17.5°	917.2	906.3	881.1	860.9	838.2	822.3	810.5	810.5	807.2	804.6	804.6
20°	919.7	907.1	876.0	849.2	823.1	806.3	795.4	797.1	796.2	795.4	795.4
22.5°	925.6	908.8	871.8	838.2	807.2	789.5	779.5	782.0	781.1	781.1	782.0
25°	934.8	913.0	868.5	828.2	792.0	772.7	761.8	763.5	763.5	763.5	763.5
27.5°	947.4	921.4	867.6	818.9	776.9	755.1	741.7	741.7	738.3	739.1	740.0
30°	966.8	937.4	869.3	810.5	761.0	733.3	717.3	714.8	713.9	715.6	716.5
32.5°	990.3	959.2	879.4	804.6	744.2	708.9	688.7	687.9	685.4	685.4	685.4
35°	1019.7	980.2	888.6	803.8	727.4	682.9	661.0	658.5	652.6	650.1	650.1
37.5°	1057.5	1012.9	899.6	797.9	713.1	657.7	631.6	623.2	616.5	615.7	615.7
40°	1103.7	1049.9	915.5	791.2	698.0	631.6	597.2	582.9	583.7	587.1	587.1
42.5°	1158.3	1095.3	935.7	787.8	676.1	604.7	556.9	540.1	546.0	549.3	550.2
45°	1222.1	1149.0	958.4	783.6	656.0	574.5	514.0	493.0	495.6	496.4	497.2
47.5°	1296.0	1208.7	981.9	780.3	633.3	536.7	467.0	439.3	438.4	433.4	435.1
50°	1373.3	1271.6	1006.2	774.4	605.6	492.2	417.4	384.7	378.0	370.4	371.2
52.5°	1455.6	1336.3	1028.9	765.2	571.1	446.8	370.4	335.1	321.7	313.3	315.0
55°	1546.3	1402.7	1050.7	750.9	535.0	401.5	328.4	292.3	275.5	268.8	269.6
57.5°	1629.5	1466.5	1066.7	733.3	495.6	360.3	291.5	256.2	245.3	244.4	245.3
60°	1710.1	1520.3	1073.4	708.9	455.2	322.5	257.0	230.1	222.6	226.8	227.6
62.5°	1778.1	1554.7	1070.1	676.1	414.1	286.4	229.3	210.0	204.9	213.3	214.2
65°	1817.6	1565.6	1046.5	629.1	369.6	251.1	203.3	182.3	179.7	184.8	187.3
67.5°	1765.5	1497.6	982.7	564.4	320.0	218.4	178.1	161.3	157.1	161.3	161.3
70°	1564.8	1297.7	831.5	462.0	265.4	186.5	154.5	142.8	139.4	142.8	141.9
72.5°	1303.6	1079.3	655.1	360.3	209.1	157.1	134.4	123.5	120.1	116.7	115.1
75°	1011.3	819.8	475.4	264.6	157.9	126.0	112.5	102.5	94.1	97.4	95.8
77.5°	740.8	575.3	336.8	183.1	113.4	97.4	88.2	80.6	74.8	81.5	80.6
80°	477.1	372.1	225.1	122.6	78.1	68.0	64.7	60.5	66.4	86.5	88.2
82.5°	291.5	236.0	134.4	79.8	51.2	45.4	42.0	42.0	68.0	74.8	75.6
85°	130.2	125.1	73.1	41.2	28.6	26.0	23.5	30.2	27.7	20.2	21.0
87.5°	21.0	21.8	16.0	14.3	10.9	10.9	8.4	5.9	4.2	2.5	2.5
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)