

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: P1210169

Luminaire Tested: **ARCH2-40-727-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210169
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: ARCH2-40-727-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 335mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

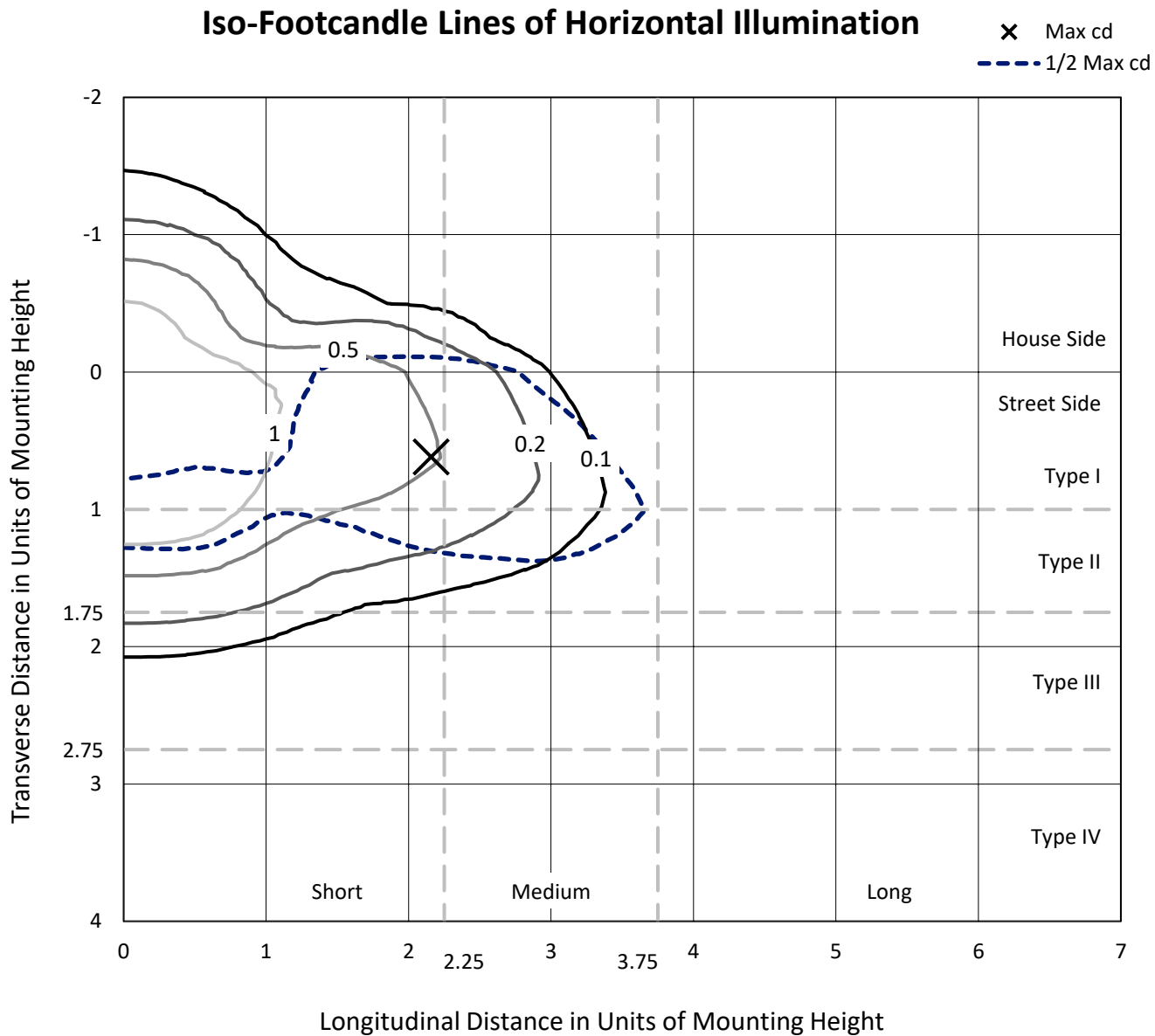
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6334 lumens
Efficiency: N/A
Efficacy: 143.6 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): 44.1
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

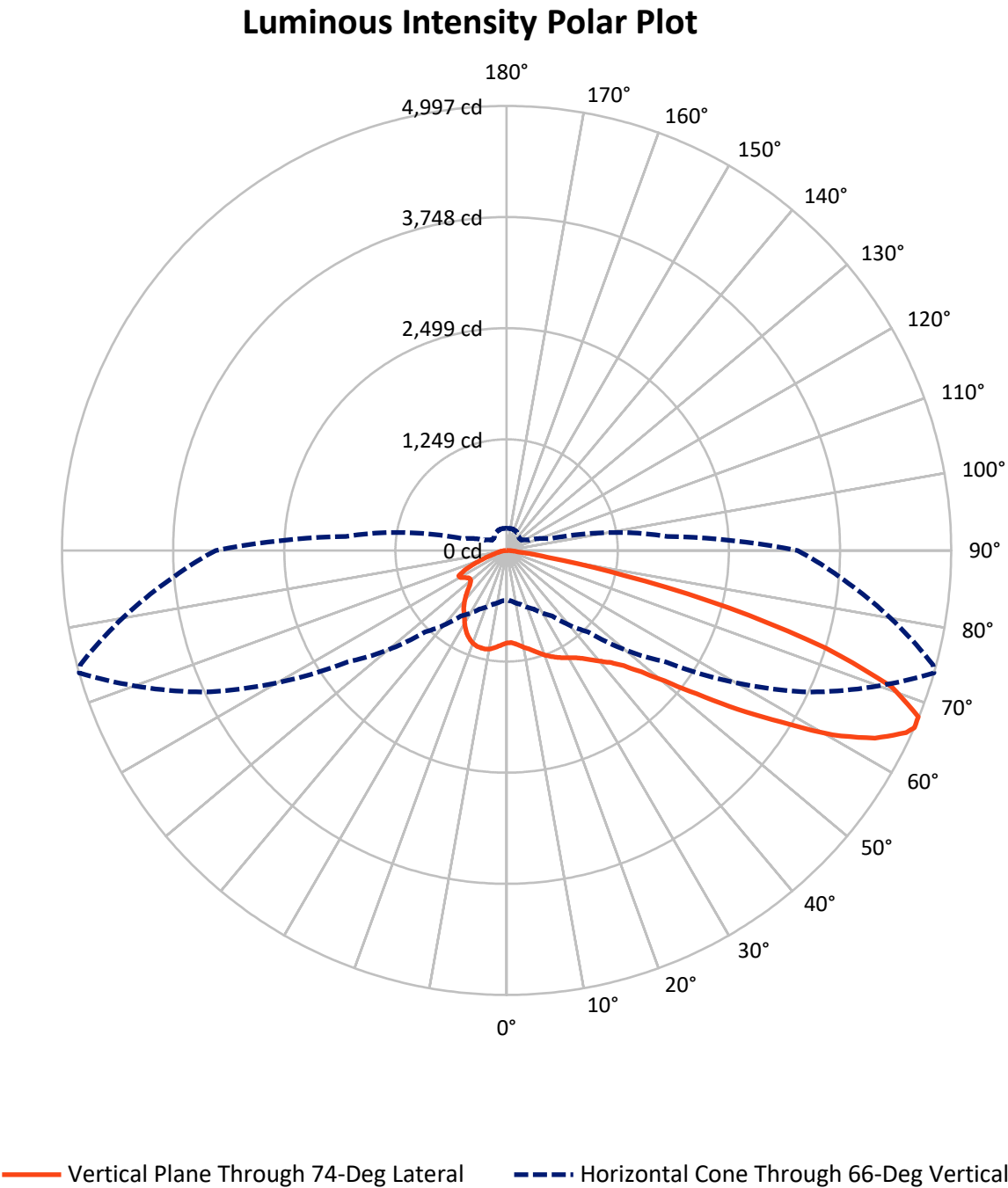


REPORT NUMBER: P1210169
CATALOG NUMBER: ARCH2-40-727-U-T2RE



Based on 25 foot mounting height. Maximum calculated value = 2 fc
Type II - Short - N/A

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CATALOG NUMBER: ARCH2-40-727-U-T2RE

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1542.5	0.0	1542.5
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	4791.5	0.0	4791.5
	% Fixture	75.6	0.0	75.6
Total	Lumens	6334.0	0.0	6334.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.0	1.6
10°-20°	304.6	4.8
20°-30°	571.6	9.0
30°-40°	879.2	13.9
40°-50°	1182.6	18.7
50°-60°	1398.6	22.1
60°-70°	1293.8	20.4
70°-80°	544.3	8.6
80°-90°	60.2	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°	6334.0	100.0
0°-180°	6334.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1210169

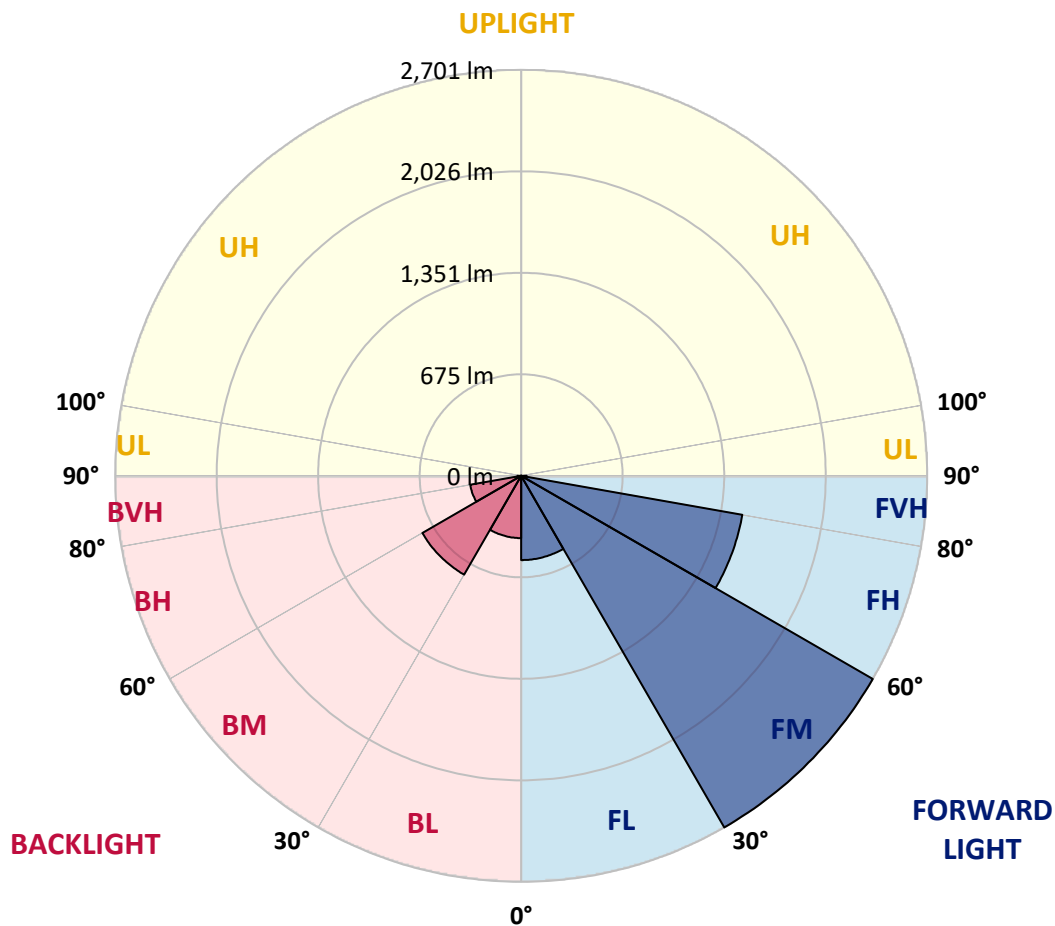
CATALOG NUMBER: ARCH2-40-727-U-T2RE

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	560.6	8.9			
FM	(30°-60°)	2701.1	42.6			
FH	(60°-80°)	1493.7	23.6			G1/1800
FVH	(80°-90°)	36.0	0.6			G1/100
BL	(0°-30°)	414.6	6.5	B1/500		
BM	(30°-60°)	759.4	12.0	B1/1000		
BH	(60°-80°)	344.3	5.4	B1/500		G1/500
BVH	(80°-90°)	24.2	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



REPORT NUMBER: P1210169

CATALOG NUMBER: ARCH2-40-727-U-T2RE

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1038.4	1038.4	1038.4	1038.4	1038.4	1038.4	1038.4	1038.4	1038.4	1038.4	1038.4
2.5°	1035.1	1033.5	1036.7	1041.6	1044.1	1040.0	1038.4	1037.5	1037.5	1035.1	1039.2
5°	986.2	985.4	992.7	1001.7	1018.8	1031.0	1047.3	1057.1	1053.8	1048.9	1052.2
7.5°	922.6	921.0	930.0	947.1	970.7	997.6	1037.5	1068.5	1080.7	1079.1	1078.3
10°	947.1	945.4	944.6	939.7	947.9	974.0	1015.5	1070.1	1111.7	1112.5	1113.3
12.5°	1031.8	1035.9	1031.8	1016.3	998.4	988.6	1013.1	1074.2	1137.8	1142.7	1163.1
15°	1147.6	1143.5	1135.3	1117.4	1089.7	1060.4	1042.4	1093.0	1175.3	1179.4	1224.2
17.5°	1249.4	1252.7	1247.8	1230.7	1198.1	1159.8	1105.2	1125.6	1215.2	1226.6	1289.4
20°	1360.3	1373.3	1366.8	1345.6	1318.7	1261.7	1193.2	1172.8	1259.2	1267.4	1357.0
22.5°	1488.3	1502.1	1489.9	1469.5	1447.5	1377.4	1289.4	1230.7	1295.9	1313.0	1422.2
25°	1641.5	1654.5	1643.1	1611.3	1583.6	1498.0	1392.9	1295.9	1331.8	1350.5	1475.2
27.5°	1762.9	1772.7	1783.3	1764.5	1722.2	1633.3	1500.5	1363.6	1367.6	1387.2	1524.1
30°	1871.3	1895.8	1904.7	1907.2	1871.3	1771.9	1610.5	1433.6	1398.6	1419.0	1573.0
32.5°	2019.7	2056.3	2041.7	2056.3	2035.1	1902.3	1724.6	1506.2	1438.5	1457.3	1619.5
35°	2236.5	2265.8	2227.5	2216.1	2181.8	2034.3	1834.6	1581.2	1491.5	1511.9	1663.5
37.5°	2469.6	2503.0	2447.5	2401.9	2336.7	2164.7	1929.2	1679.8	1564.9	1581.2	1704.2
40°	2673.3	2701.0	2652.9	2592.6	2483.4	2279.6	2010.7	1749.1	1638.2	1658.6	1751.5
42.5°	2861.6	2879.5	2825.7	2767.9	2622.0	2383.2	2098.7	1822.4	1723.8	1743.4	1789.8
45°	3052.3	3066.2	2991.2	2908.9	2737.7	2477.7	2195.7	1925.1	1849.3	1875.4	1851.8
47.5°	3086.5	3090.6	3077.6	3022.1	2829.0	2568.2	2315.5	2062.9	2040.8	2069.4	1958.5
50°	2849.4	2886.0	2966.7	3021.3	2865.7	2644.0	2435.3	2260.1	2304.9	2341.6	2180.2
52.5°	2388.9	2423.9	2610.6	2817.6	2777.6	2661.1	2564.1	2510.3	2677.4	2721.4	2481.8
55°	1903.1	1934.1	2131.3	2429.6	2493.2	2582.8	2701.8	2829.8	3152.6	3181.9	2812.7
57.5°	1567.3	1584.4	1725.4	2012.3	2114.2	2332.6	2776.0	3209.6	3635.9	3680.7	3100.4
60°	1285.3	1304.1	1409.2	1645.6	1780.8	1974.8	2717.3	3584.5	4212.9	4212.9	3469.6
62.5°	967.4	983.7	1081.5	1266.6	1494.0	1671.6	2529.9	3833.1	4648.1	4628.6	3736.9
65°	664.3	677.3	748.2	871.3	1075.8	1424.7	2273.9	3836.4	4936.7	4910.6	3851.0
66°	557.5	568.9	629.2	728.6	900.6	1292.6	2183.5	3767.1	4997.0	4960.3	3802.9
67.5°	440.1	448.3	488.2	546.9	660.2	1046.5	2040.8	3570.7	4991.3	4969.3	3680.7
70°	314.6	320.3	349.6	361.9	390.4	605.6	1621.1	3127.3	4591.1	4597.6	3199.8
72.5°	243.7	252.7	270.6	273.0	266.5	321.9	983.7	2608.9	3755.7	3753.2	2375.0
75°	196.4	201.3	210.3	215.2	213.5	207.8	416.5	1946.3	2585.3	2615.4	1330.1
77.5°	154.9	154.0	162.2	168.7	173.6	163.0	190.7	1141.0	1355.4	1317.1	499.6
80°	114.1	114.1	125.5	128.0	135.3	136.9	127.1	440.1	465.4	423.0	129.6
82.5°	75.0	75.0	87.2	88.8	96.2	106.8	92.1	132.0	128.8	122.3	58.7
85°	40.8	39.1	43.2	48.9	53.0	62.8	55.4	66.0	67.6	66.8	39.1
87.5°	8.2	7.3	11.4	13.0	14.7	19.6	17.9	26.9	37.5	36.7	17.1
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: P1210169

CATALOG NUMBER: ARCH2-40-727-U-T2RE

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1038.4	1038.4	1038.4	1038.4	1038.4	1038.4	1038.4	1038.4	1038.4	1038.4	1038.4
2.5°	1044.9	1044.1	1053.0	1063.6	1075.8	1083.2	1086.4	1092.1	1088.1	1089.7	1094.6
5°	1060.4	1062.8	1075.8	1089.7	1095.4	1091.3	1082.4	1079.1	1071.8	1070.1	1068.5
7.5°	1083.2	1087.3	1100.3	1103.6	1086.4	1057.9	1037.5	1026.1	1013.9	1010.6	1009.0
10°	1120.7	1123.1	1126.4	1093.0	1050.6	1012.3	987.0	976.4	968.3	961.7	963.4
12.5°	1167.9	1166.3	1141.0	1071.8	1011.5	972.3	955.2	948.7	943.0	938.9	938.1
15°	1227.4	1216.0	1143.5	1042.4	974.8	942.2	930.0	927.5	921.0	921.0	920.2
17.5°	1287.8	1258.4	1141.9	1011.5	939.7	921.8	914.5	912.8	911.2	910.4	912.8
20°	1348.1	1295.9	1128.8	973.2	915.3	904.7	903.1	903.9	902.2	904.7	903.1
22.5°	1401.0	1320.4	1104.4	932.4	898.2	897.4	893.3	894.9	900.6	901.4	903.9
25°	1441.8	1329.3	1068.5	894.9	885.9	884.3	889.2	895.7	900.6	901.4	905.5
27.5°	1475.2	1324.4	1023.7	865.6	864.8	873.7	888.4	890.8	891.6	891.6	888.4
30°	1500.5	1313.8	966.6	833.0	837.0	859.0	872.9	872.9	866.4	864.8	869.6
32.5°	1506.2	1300.0	904.7	799.5	806.1	832.1	849.3	843.6	836.2	836.2	839.5
35°	1511.1	1281.2	855.0	753.9	763.7	794.7	811.0	799.5	791.4	789.0	788.1
37.5°	1509.4	1273.9	810.1	696.0	709.1	739.2	749.8	739.2	727.0	721.3	728.6
40°	1511.1	1269.0	753.9	632.5	645.5	663.4	677.3	669.1	657.7	643.1	650.4
42.5°	1520.9	1275.5	692.0	570.5	570.5	580.3	603.9	598.2	570.5	564.8	571.3
45°	1573.0	1310.6	630.0	508.6	499.6	506.1	530.6	506.1	489.0	489.0	494.7
47.5°	1699.3	1375.8	575.4	454.0	432.8	445.8	452.3	429.5	416.5	413.2	418.9
50°	1956.9	1506.2	542.8	409.1	383.1	392.8	388.8	388.0	374.9	376.5	379.8
52.5°	2348.1	1760.5	533.0	387.1	354.5	357.0	352.9	354.5	352.1	360.2	362.7
55°	2774.4	2028.6	545.3	390.4	335.0	317.9	319.5	327.6	337.4	350.5	352.9
57.5°	3093.1	2163.1	577.0	412.4	310.5	284.4	288.5	304.0	322.8	333.3	339.1
60°	3330.2	2146.8	623.5	418.1	281.2	254.3	261.6	284.4	300.7	309.7	315.4
62.5°	3407.7	2044.9	634.9	376.5	242.9	225.8	243.7	267.3	274.7	284.4	288.5
65°	3344.1	1900.7	551.8	305.6	213.5	204.6	230.7	248.6	258.4	263.3	264.1
66°	3269.1	1814.3	507.0	277.9	202.9	198.1	225.8	240.4	250.2	249.4	250.2
67.5°	3104.5	1633.3	434.4	238.8	187.5	188.3	217.6	227.4	230.7	228.2	228.2
70°	2544.5	1150.0	311.3	180.9	164.6	176.0	195.6	198.1	205.4	202.1	202.1
72.5°	1568.9	564.8	208.6	138.6	146.7	164.6	163.8	172.0	189.1	194.0	197.2
75°	771.0	229.0	137.7	117.4	131.2	137.7	136.1	156.5	180.9	202.1	209.5
77.5°	292.6	114.1	96.2	102.7	106.0	103.5	108.4	141.8	180.9	219.2	226.6
80°	90.5	79.1	75.8	84.8	79.9	75.8	81.5	117.4	153.2	166.3	166.3
82.5°	54.6	61.9	58.7	57.9	53.8	54.6	58.7	83.9	118.2	123.9	123.9
85°	38.3	40.8	33.4	31.8	31.0	30.2	30.2	48.9	70.1	69.3	71.7
87.5°	14.7	16.3	12.2	12.2	11.4	8.2	6.5	8.2	8.2	5.7	4.1
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)