

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: P1210731

Luminaire Tested: **ARCH3-50-750-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210731
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-2)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-50-750-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 425mA LIGHTSQUARE WITH 40 LEDS AND TYPE III ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9035 lumens
Efficiency: N/A
Efficacy: 168.6 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 53.6
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

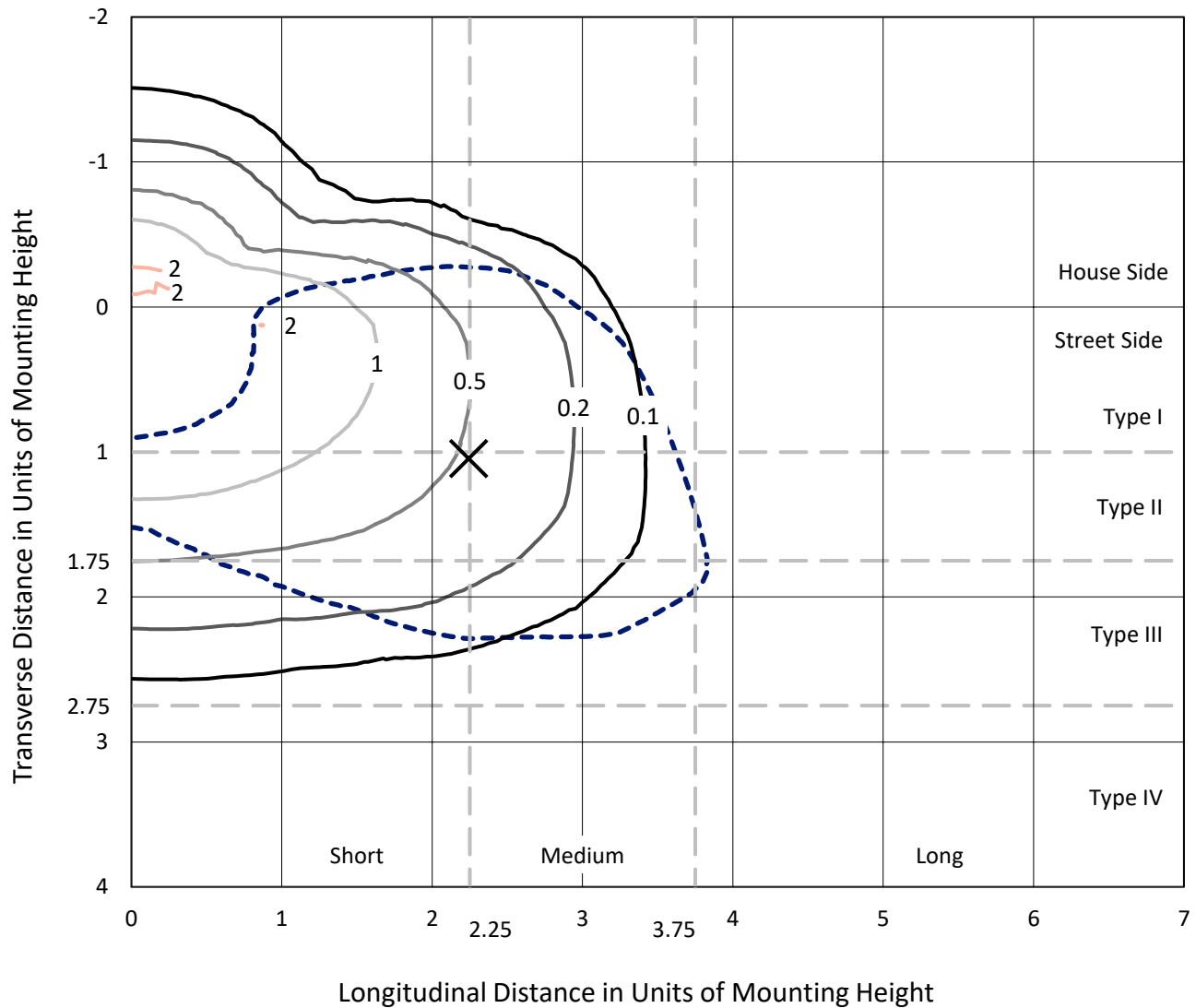


REPORT NUMBER: P1210731

CATALOG NUMBER: ARCH3-50-750-U-T3RE

Iso-Footcandle Lines of Horizontal Illumination

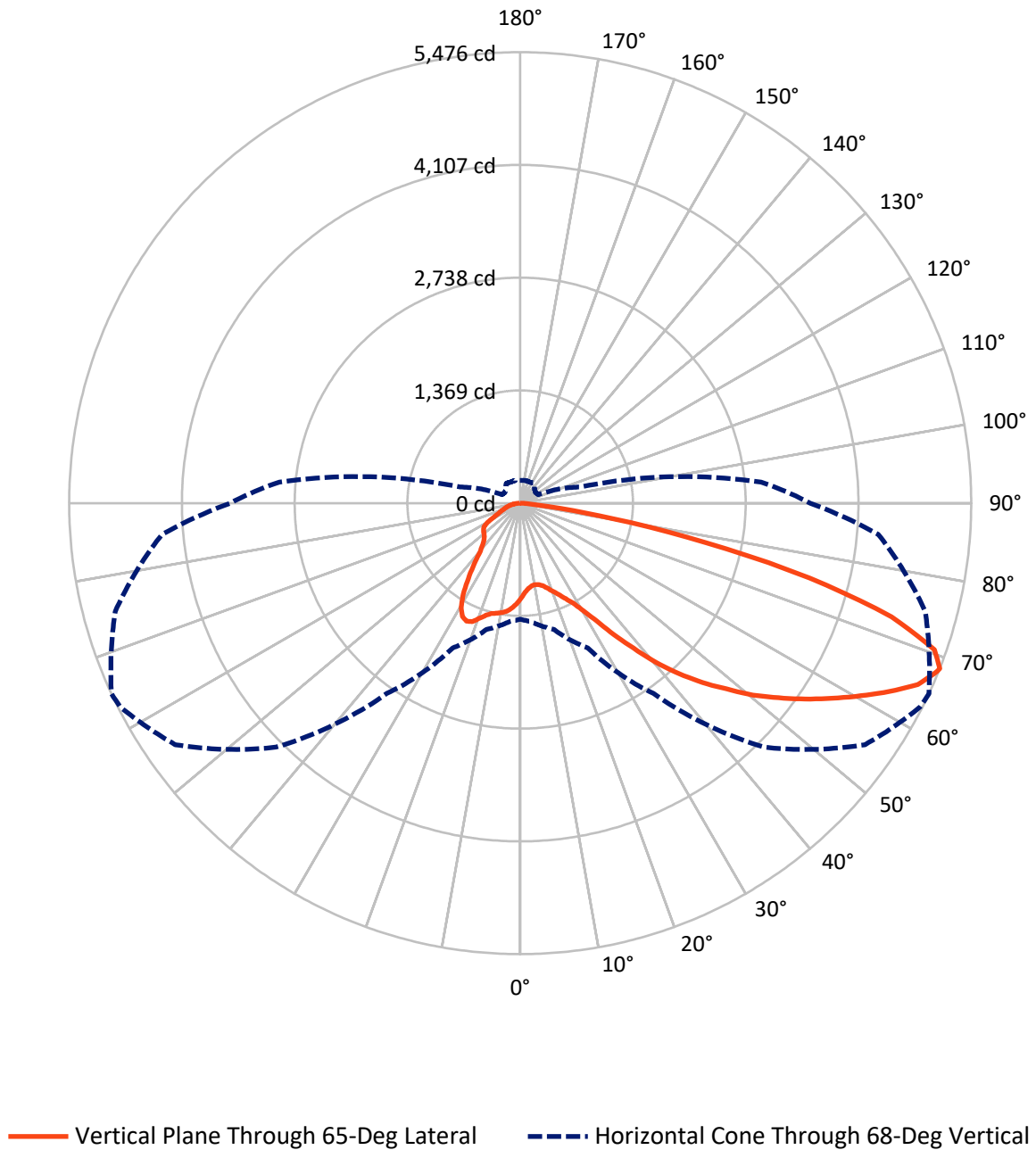
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
Type III - Short - N/A

REPORT NUMBER: P1210731
CATALOG NUMBER: ARCH3-50-750-U-T3RE

Luminous Intensity Polar Plot



REPORT NUMBER: P1210731

CATALOG NUMBER: ARCH3-50-750-U-T3RE

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2215.1	0.0	2215.1
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	6819.9	0.0	6819.9
	% Fixture	75.5	0.0	75.5
Total	Lumens	9035.0	0.0	9035.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.3	1.2
10°-20°	359.3	4.0
20°-30°	650.2	7.2
30°-40°	1022.9	11.3
40°-50°	1523.5	16.9
50°-60°	1998.5	22.1
60°-70°	2185.5	24.2
70°-80°	1081.5	12.0
80°-90°	103.2	1.1
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°	9035.0	100.0
0°-180°	9035.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1210731

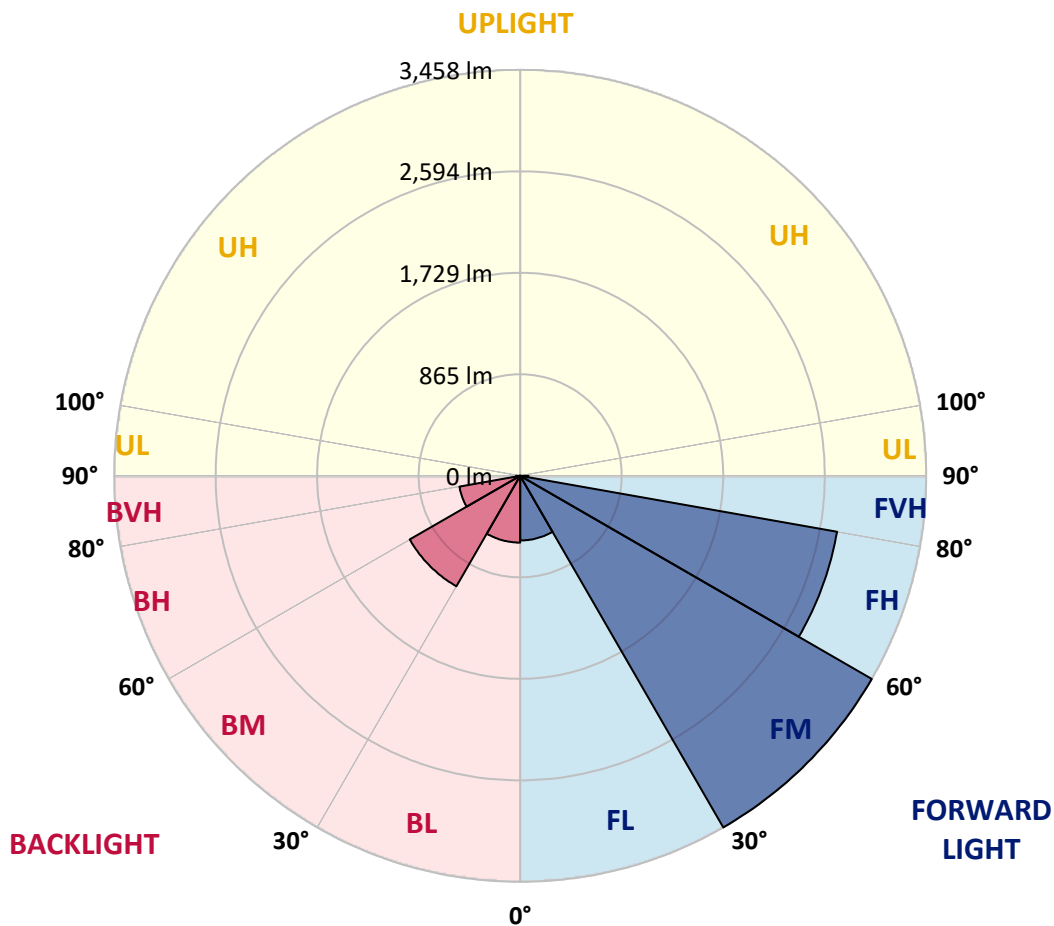
CATALOG NUMBER: ARCH3-50-750-U-T3RE

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	550.8	6.1			
FM	(30°-60°)	3458.5	38.3			
FH	(60°-80°)	2741.2	30.3			G2/5000
FVH	(80°-90°)	69.4	0.8			G1/100
BL	(0°-30°)	569.1	6.3	B2/1000		
BM	(30°-60°)	1086.5	12.0	B2/2500		
BH	(60°-80°)	525.8	5.8	B2/1000		G2/1000
BVH	(80°-90°)	33.8	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short



REPORT NUMBER: P1210731

CATALOG NUMBER: ARCH3-50-750-U-T3RE

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	1154.6	1154.6	1154.6	1154.6	1154.6	1154.6	1154.6	1154.6	1154.6	1154.6	1154.6
2.5°	1007.8	1005.4	1011.3	1017.1	1029.9	1045.0	1066.0	1083.5	1085.8	1118.4	1144.1
5°	948.3	944.9	950.7	957.7	963.5	982.1	1004.3	1029.9	1040.4	1088.2	1142.9
7.5°	954.2	953.0	955.3	953.0	953.0	961.2	976.3	1001.9	1013.6	1070.7	1148.7
10°	988.0	990.3	991.5	984.5	977.5	974.0	978.6	996.1	1004.3	1071.8	1174.4
12.5°	1043.9	1047.4	1048.5	1035.7	1026.4	1011.3	1003.1	1010.1	1015.9	1083.5	1210.5
15°	1119.6	1121.9	1113.8	1105.6	1082.3	1063.7	1043.9	1038.1	1040.4	1108.0	1251.3
17.5°	1208.2	1204.7	1204.7	1184.9	1154.6	1125.4	1092.8	1088.2	1088.2	1147.6	1309.5
20°	1304.9	1308.3	1297.9	1271.1	1240.8	1195.3	1162.7	1141.7	1144.1	1193.0	1380.6
22.5°	1444.7	1450.5	1422.5	1384.1	1337.5	1285.0	1238.4	1204.7	1205.8	1252.4	1454.0
25°	1595.0	1597.3	1579.8	1528.5	1465.6	1391.1	1329.3	1286.2	1285.0	1318.8	1548.3
27.5°	1748.7	1759.2	1724.3	1675.3	1617.1	1523.9	1442.3	1384.1	1374.8	1420.2	1666.0
30°	1907.2	1920.0	1886.2	1838.4	1766.2	1687.0	1590.3	1522.7	1516.9	1577.5	1823.3
32.5°	2066.8	2070.3	2043.5	2003.9	1938.6	1864.1	1786.0	1711.5	1705.6	1804.7	2027.2
35°	2197.3	2207.8	2189.1	2179.8	2132.0	2063.3	1987.6	1944.5	1959.6	2086.6	2291.7
37.5°	2354.6	2365.0	2344.1	2341.7	2326.6	2267.2	2214.8	2218.3	2233.4	2405.8	2570.1
40°	2581.7	2593.4	2539.8	2516.5	2516.5	2458.3	2440.8	2523.5	2543.3	2720.4	2860.2
42.5°	2774.0	2792.6	2761.2	2746.0	2700.6	2659.8	2680.8	2797.3	2831.1	3021.0	3113.0
45°	2867.2	2881.2	2918.4	2962.7	2918.4	2847.4	2926.6	3058.3	3106.0	3298.3	3365.8
47.5°	2917.3	2930.1	2973.2	3092.0	3122.3	3062.9	3174.8	3339.0	3371.7	3573.2	3607.0
50°	2924.3	2965.0	3021.0	3139.8	3278.4	3286.6	3424.1	3624.5	3662.9	3843.5	3819.0
52.5°	2867.2	2883.5	2998.8	3199.2	3353.0	3492.8	3695.5	3898.3	3926.2	4097.5	4006.6
55°	2774.0	2797.3	2912.6	3185.2	3425.2	3688.5	3971.7	4167.4	4198.8	4344.5	4180.2
57.5°	2690.1	2701.7	2825.2	3144.5	3497.5	3884.3	4217.5	4448.2	4469.1	4561.2	4308.3
60°	2596.9	2609.7	2733.2	3057.1	3551.1	4032.2	4473.8	4731.3	4749.9	4789.5	4457.5
62.5°	2355.7	2389.5	2544.5	2912.6	3537.1	4201.2	4747.6	5010.9	5034.2	4991.1	4575.1
65°	1913.0	1960.8	2150.7	2585.2	3406.6	4310.7	4971.3	5268.3	5308.0	5142.5	4606.6
67.5°	1485.4	1519.2	1671.8	2051.7	2948.7	4255.9	5115.7	5445.4	5457.1	5118.1	4431.8
68°	1408.5	1442.3	1588.0	1939.8	2821.7	4190.7	5112.2	5450.1	5475.7	5091.3	4364.3
70°	1077.7	1116.1	1254.8	1536.7	2274.2	3775.9	4899.0	5338.3	5334.8	4767.4	3944.9
72.5°	673.4	695.5	791.1	969.3	1504.1	2873.0	4158.1	4708.0	4717.3	3886.6	3025.6
75°	427.6	427.6	422.9	469.5	771.3	1636.9	3090.9	3624.5	3631.5	2721.6	1907.2
77.5°	371.7	361.2	311.1	263.3	307.6	636.1	1829.1	2340.6	2302.1	1465.6	905.2
80°	313.4	295.9	255.1	212.0	198.1	199.2	702.5	1188.3	1137.1	527.8	300.6
82.5°	226.0	210.9	192.2	166.6	152.6	118.8	146.8	343.7	335.5	152.6	97.9
85°	122.3	110.7	108.3	109.5	92.0	73.4	61.7	75.7	75.7	66.4	55.9
87.5°	43.1	31.5	37.3	41.9	36.1	30.3	24.5	29.1	30.3	29.1	26.8
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: P1210731

CATALOG NUMBER: ARCH3-50-750-U-T3RE

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1154.6	1154.6	1154.6	1154.6	1154.6	1154.6	1154.6	1154.6	1154.6	1154.6	1154.6
2.5°	1159.2	1170.9	1198.8	1223.3	1240.8	1255.9	1264.1	1267.6	1275.7	1276.9	1274.6
5°	1168.5	1198.8	1240.8	1276.9	1296.7	1304.9	1307.2	1308.3	1304.9	1307.2	1304.9
7.5°	1193.0	1231.5	1290.9	1322.3	1325.8	1313.0	1314.2	1309.5	1314.2	1318.8	1318.8
10°	1230.3	1279.2	1335.1	1346.8	1331.7	1324.7	1338.6	1366.6	1375.9	1388.7	1388.7
12.5°	1279.2	1337.5	1377.1	1366.6	1352.6	1375.9	1416.7	1444.7	1454.0	1458.6	1455.1
15°	1335.1	1398.1	1417.9	1382.9	1408.5	1458.6	1472.6	1456.3	1433.0	1422.5	1428.3
17.5°	1406.2	1458.6	1447.0	1423.7	1481.9	1488.9	1443.5	1391.1	1353.8	1339.8	1349.1
20°	1480.8	1526.2	1472.6	1483.1	1519.2	1444.7	1358.4	1290.9	1258.3	1252.4	1261.7
22.5°	1560.0	1589.1	1498.3	1551.8	1498.3	1346.8	1243.1	1208.2	1200.0	1209.3	1217.5
25°	1649.7	1646.2	1542.5	1572.8	1420.2	1226.8	1165.0	1162.7	1162.7	1168.5	1180.2
27.5°	1751.1	1696.3	1586.8	1544.9	1285.0	1127.8	1116.1	1117.3	1113.8	1115.0	1120.8
30°	1868.7	1763.9	1635.7	1452.8	1133.6	1053.2	1048.5	1045.0	1036.9	1034.6	1036.9
32.5°	2016.7	1835.0	1685.8	1301.4	1000.8	976.3	974.0	955.3	935.5	933.2	941.4
35°	2204.3	1964.3	1711.5	1111.5	891.3	890.1	881.9	852.8	827.2	827.2	821.4
37.5°	2418.6	2130.9	1721.9	926.2	800.4	806.2	782.9	745.6	725.8	714.2	717.7
40°	2637.7	2320.8	1720.8	764.3	721.2	722.3	704.9	659.4	610.5	581.4	588.3
42.5°	2848.5	2493.2	1690.5	678.1	657.1	653.6	639.6	577.9	537.1	513.8	515.0
45°	3017.5	2671.5	1643.9	626.8	598.8	604.7	573.2	535.9	498.6	477.7	476.5
47.5°	3186.4	2806.6	1569.3	595.3	555.7	545.2	532.4	506.8	478.8	455.5	456.7
50°	3340.2	2921.9	1499.4	574.4	516.1	489.3	491.7	476.5	452.0	431.1	429.9
52.5°	3448.5	2997.7	1461.0	562.7	468.3	439.2	447.4	439.2	415.9	400.8	399.6
55°	3556.9	3055.9	1473.8	547.6	415.9	392.6	406.6	404.3	391.5	386.8	388.0
57.5°	3644.3	3100.2	1519.2	519.6	365.8	351.8	375.1	368.2	358.8	360.0	360.0
60°	3729.3	3157.3	1572.8	455.5	322.7	323.9	346.0	333.2	327.4	337.9	339.0
62.5°	3817.9	3219.0	1528.5	362.3	285.4	293.6	319.2	308.7	311.1	326.2	330.9
65°	3807.4	3213.2	1245.4	297.1	252.8	269.1	307.6	304.1	305.2	311.1	313.4
67.5°	3593.0	3008.2	856.3	252.8	229.5	249.3	298.3	284.3	285.4	281.9	283.1
68°	3520.8	2935.9	755.0	245.8	224.9	244.7	293.6	280.8	281.9	278.4	277.3
70°	3127.0	2514.2	477.7	216.7	208.5	231.8	270.3	265.6	264.5	262.1	262.1
72.5°	2383.7	1855.9	251.7	187.6	189.9	212.0	241.2	250.5	244.7	245.8	252.8
75°	1578.6	1116.1	174.8	160.8	166.6	181.7	214.4	233.0	227.2	230.7	227.2
77.5°	835.3	601.2	139.8	136.3	136.3	146.8	177.1	206.2	206.2	203.9	200.4
80°	273.8	212.0	111.8	107.2	109.5	115.3	142.1	168.9	172.4	167.8	165.4
82.5°	92.0	97.9	83.9	78.1	80.4	85.0	107.2	129.3	130.5	121.2	118.8
85°	57.1	65.2	52.4	51.3	51.3	52.4	65.2	71.1	65.2	58.3	60.6
87.5°	26.8	32.6	24.5	21.0	17.5	15.1	11.7	4.7	4.7	2.3	2.3
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)