

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: P1210719

Luminaire Tested: **ARCH3-50-730-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210719
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: ARCH3-50-730-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 425mA LIGHTSQUARE WITH 40 LEDS AND TYPE III ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8605 lumens
Efficiency: N/A
Efficacy: 160.5 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

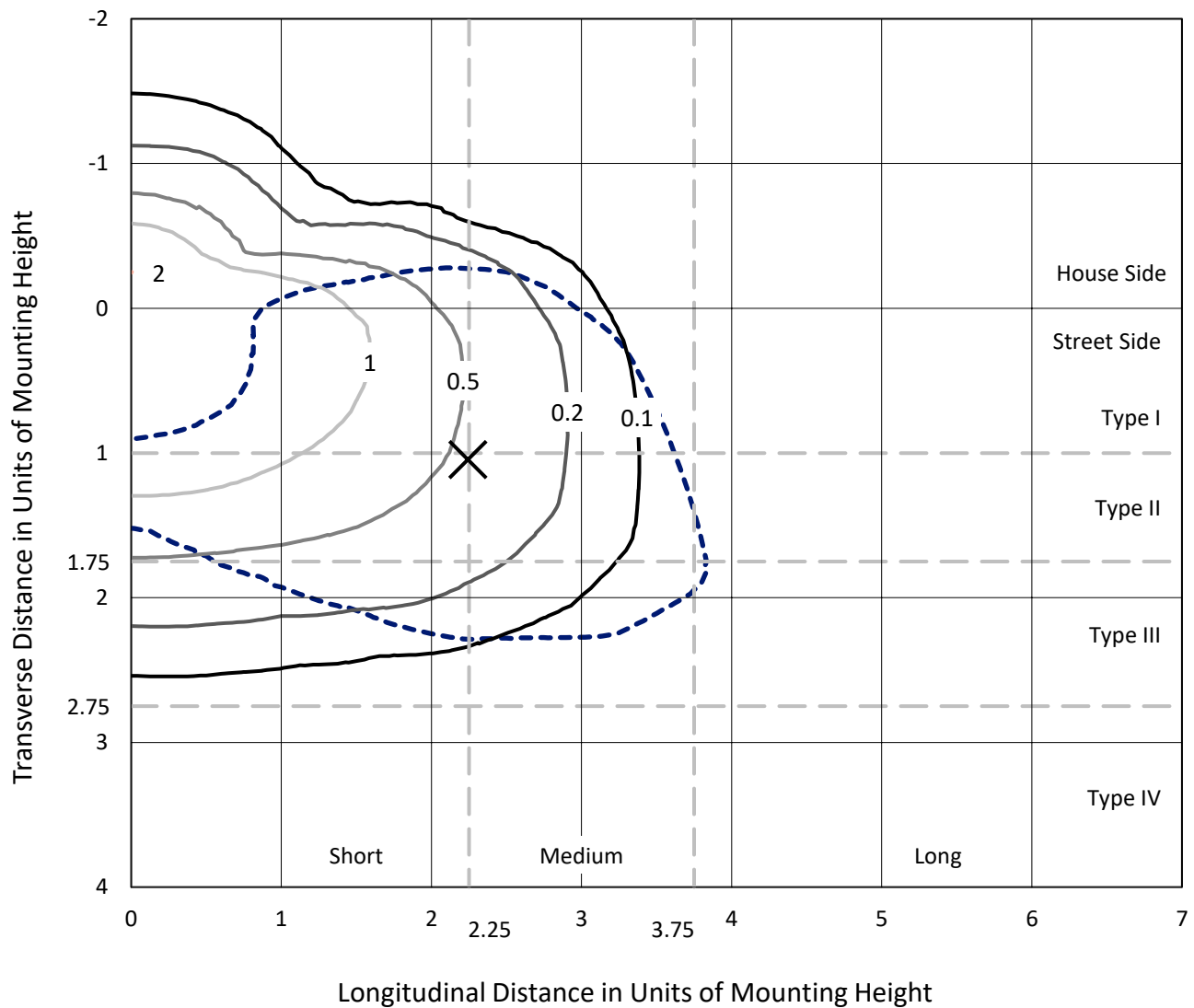


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Iso-Footcandle Lines of Horizontal Illumination

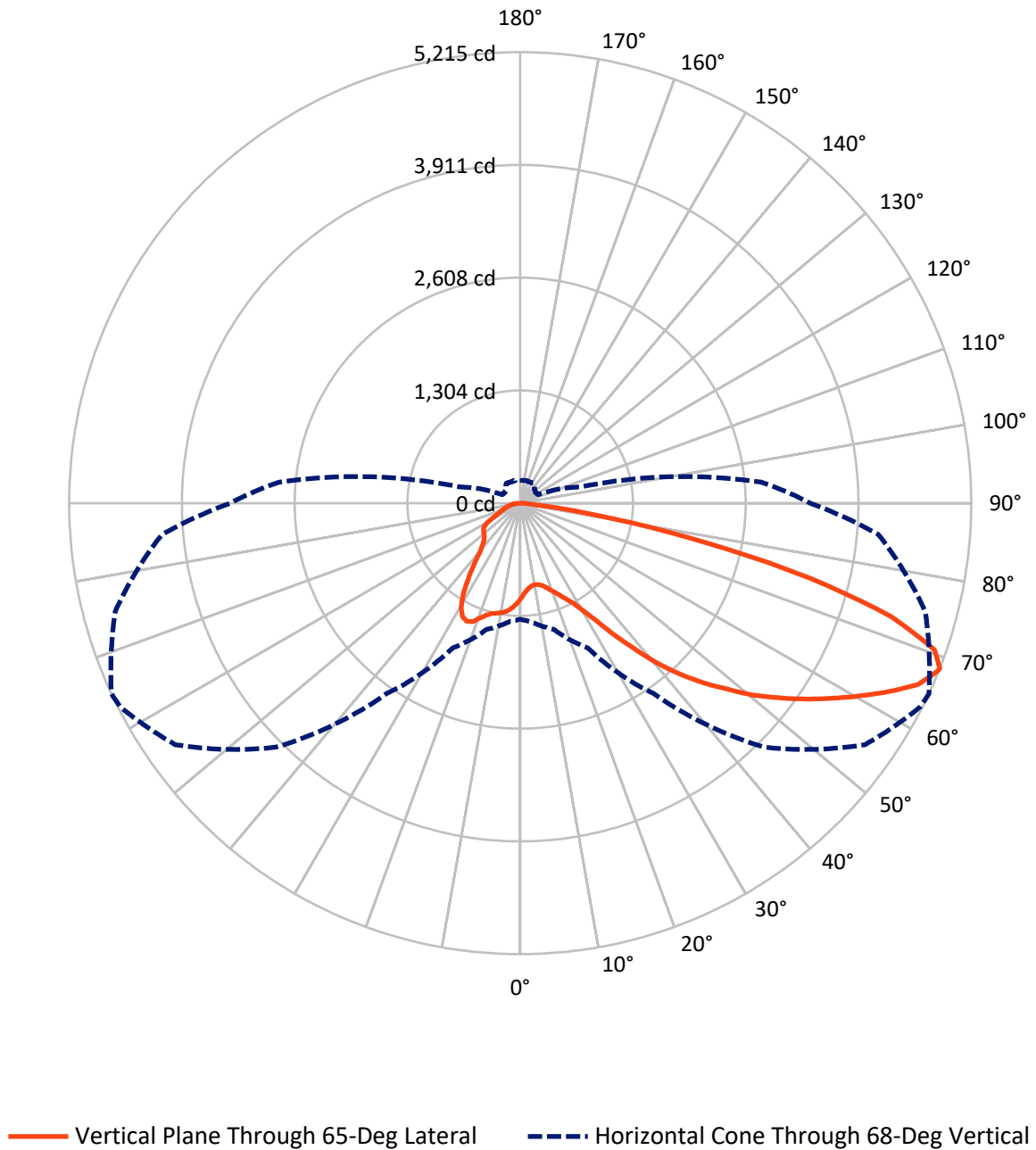
✕ Max cd
- - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2109.7	0.0	2109.7
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	6495.3	0.0	6495.3
	% Fixture	75.5	0.0	75.5
Total	Lumens	8605.0	0.0	8605.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.1	1.2
10°-20°	342.2	4.0
20°-30°	619.3	7.2
30°-40°	974.2	11.3
40°-50°	1451.0	16.9
50°-60°	1903.4	22.1
60°-70°	2081.5	24.2
70°-80°	1030.0	12.0
80°-90°	98.2	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°	8605.0	100.0
0°-180°	8605.0	100.0

Coefficient of Utilization



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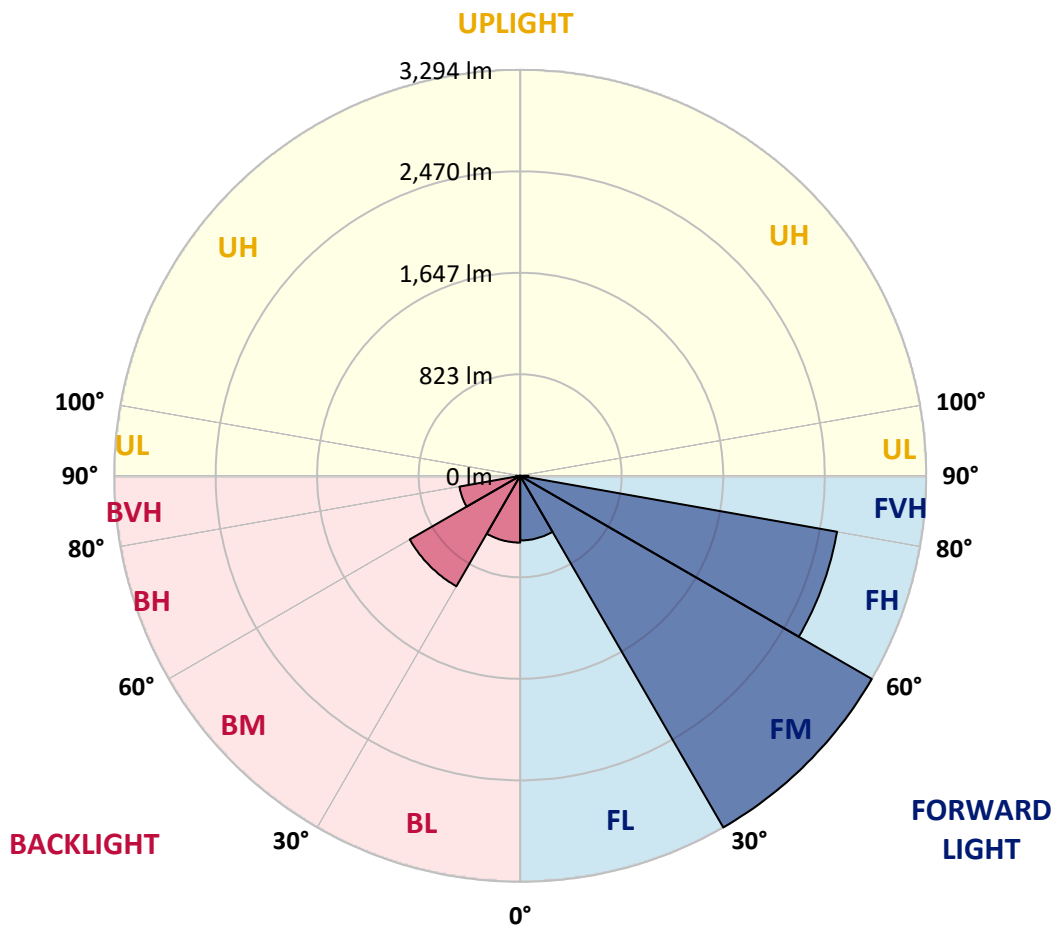
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	524.6	6.1			
FM	(30°-60°)	3293.9	38.3			
FH	(60°-80°)	2610.8	30.3			G2/5000
FVH	(80°-90°)	66.1	0.8			G1/100
BL	(0°-30°)	542.0	6.3	B2/1000		
BM	(30°-60°)	1034.8	12.0	B2/2500		
BH	(60°-80°)	500.7	5.8	B2/1000		G2/1000
BVH	(80°-90°)	32.2	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	1099.6	1099.6	1099.6	1099.6	1099.6	1099.6	1099.6	1099.6	1099.6	1099.6	1099.6
2.5°	959.8	957.6	963.1	968.7	980.9	995.3	1015.3	1031.9	1034.1	1065.2	1089.6
5°	903.2	899.9	905.4	912.1	917.6	935.4	956.5	980.9	990.9	1036.4	1088.5
7.5°	908.8	907.7	909.9	907.7	907.7	915.4	929.8	954.3	965.4	1019.7	1094.1
10°	940.9	943.2	944.3	937.6	931.0	927.6	932.1	948.7	956.5	1020.8	1118.5
12.5°	994.2	997.5	998.6	986.4	977.6	963.1	955.4	962.0	967.6	1031.9	1152.9
15°	1066.3	1068.5	1060.8	1053.0	1030.8	1013.1	994.2	988.7	990.9	1055.2	1191.7
17.5°	1150.7	1147.3	1147.3	1128.5	1099.6	1071.9	1040.8	1036.4	1036.4	1093.0	1247.2
20°	1242.8	1246.1	1236.1	1210.6	1181.7	1138.5	1107.4	1087.4	1089.6	1136.2	1314.9
22.5°	1375.9	1381.5	1354.8	1318.2	1273.8	1223.9	1179.5	1147.3	1148.4	1192.8	1384.8
25°	1519.0	1521.3	1504.6	1455.8	1395.9	1324.9	1266.1	1225.0	1223.9	1256.1	1474.7
27.5°	1665.5	1675.5	1642.2	1595.6	1540.1	1451.4	1373.7	1318.2	1309.3	1352.6	1586.7
30°	1816.4	1828.6	1796.4	1751.0	1682.2	1606.7	1514.6	1450.2	1444.7	1502.4	1736.5
32.5°	1968.4	1971.8	1946.2	1908.5	1846.4	1775.4	1701.0	1630.0	1624.5	1718.8	1930.7
35°	2092.7	2102.7	2084.9	2076.1	2030.6	1965.1	1893.0	1851.9	1866.3	1987.3	2182.6
37.5°	2242.5	2252.5	2232.5	2230.3	2215.9	2159.3	2109.4	2112.7	2127.1	2291.3	2447.8
40°	2458.9	2470.0	2418.9	2396.7	2396.7	2341.3	2324.6	2403.4	2422.3	2590.9	2724.1
42.5°	2642.0	2659.7	2629.8	2615.3	2572.1	2533.2	2553.2	2664.2	2696.3	2877.2	2964.9
45°	2730.7	2744.0	2779.5	2821.7	2779.5	2711.9	2787.3	2912.7	2958.2	3141.3	3205.6
47.5°	2778.4	2790.6	2831.7	2944.9	2973.7	2917.1	3023.7	3180.1	3211.2	3403.1	3435.3
50°	2785.1	2823.9	2877.2	2990.4	3122.4	3130.2	3261.1	3452.0	3488.6	3660.6	3637.3
52.5°	2730.7	2746.3	2856.1	3047.0	3193.4	3326.6	3519.7	3712.7	3739.4	3902.5	3815.9
55°	2642.0	2664.2	2774.0	3033.6	3262.2	3513.0	3782.6	3969.0	3999.0	4137.7	3981.2
57.5°	2562.1	2573.2	2690.8	2994.8	3331.0	3699.4	4016.8	4236.5	4256.4	4344.1	4103.3
60°	2473.3	2485.5	2603.1	2911.6	3382.1	3840.3	4260.9	4506.1	4523.8	4561.6	4245.3
62.5°	2243.6	2275.8	2423.4	2774.0	3368.7	4001.2	4521.6	4772.4	4794.6	4753.5	4357.4
65°	1822.0	1867.5	2048.3	2462.2	3244.5	4105.5	4734.7	5017.6	5055.3	4897.8	4387.4
67.5°	1414.7	1446.9	1592.3	1954.0	2808.4	4053.4	4872.3	5186.3	5197.4	4874.5	4220.9
68°	1341.5	1373.7	1512.4	1847.5	2687.5	3991.2	4868.9	5190.7	5215.1	4849.0	4156.6
70°	1026.4	1063.0	1195.0	1463.6	2165.9	3596.2	4665.9	5084.2	5080.9	4540.5	3757.1
72.5°	641.3	662.4	753.4	923.2	1432.5	2736.3	3960.2	4483.9	4492.8	3701.6	2881.6
75°	407.2	407.2	402.8	447.2	734.6	1559.0	2943.8	3452.0	3458.6	2592.0	1816.4
77.5°	354.0	344.0	296.3	250.8	292.9	605.8	1742.1	2229.2	2192.6	1395.9	862.2
80°	298.5	281.8	243.0	201.9	188.6	189.7	669.1	1131.8	1083.0	502.6	286.3
82.5°	215.3	200.8	183.1	158.7	145.4	113.2	139.8	327.3	319.6	145.4	93.2
85°	116.5	105.4	103.2	104.3	87.7	69.9	58.8	72.1	72.1	63.2	53.3
87.5°	41.1	30.0	35.5	39.9	34.4	28.8	23.3	27.7	28.8	27.7	25.5
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°	1099.6	1099.6	1099.6	1099.6	1099.6	1099.6	1099.6	1099.6	1099.6	1099.6	1099.6
2.5°	1104.1	1115.1	1141.8	1165.1	1181.7	1196.1	1203.9	1207.2	1215.0	1216.1	1213.9
5°	1112.9	1141.8	1181.7	1216.1	1235.0	1242.8	1245.0	1246.1	1242.8	1245.0	1242.8
7.5°	1136.2	1172.8	1229.4	1259.4	1262.7	1250.5	1251.6	1247.2	1251.6	1256.1	1256.1
10°	1171.7	1218.3	1271.6	1282.7	1268.3	1261.6	1274.9	1301.6	1310.4	1322.6	1322.6
12.5°	1218.3	1273.8	1311.5	1301.6	1288.2	1310.4	1349.3	1375.9	1384.8	1389.2	1385.9
15°	1271.6	1331.5	1350.4	1317.1	1341.5	1389.2	1402.5	1387.0	1364.8	1354.8	1360.4
17.5°	1339.3	1389.2	1378.1	1355.9	1411.4	1418.1	1374.8	1324.9	1289.4	1276.0	1284.9
20°	1410.3	1453.6	1402.5	1412.5	1446.9	1375.9	1293.8	1229.4	1198.4	1192.8	1201.7
22.5°	1485.8	1513.5	1426.9	1478.0	1426.9	1282.7	1183.9	1150.7	1142.9	1151.8	1159.5
25°	1571.2	1567.9	1469.1	1498.0	1352.6	1168.4	1109.6	1107.4	1107.4	1112.9	1124.0
27.5°	1667.7	1615.6	1511.3	1471.3	1223.9	1074.1	1063.0	1064.1	1060.8	1061.9	1067.4
30°	1779.8	1679.9	1557.9	1383.7	1079.6	1003.1	998.6	995.3	987.5	985.3	987.5
32.5°	1920.7	1747.6	1605.6	1239.4	953.1	929.8	927.6	909.9	891.0	888.8	896.6
35°	2099.4	1870.8	1630.0	1058.6	848.8	847.7	840.0	812.2	787.8	787.8	782.3
37.5°	2303.5	2029.5	1640.0	882.1	762.3	767.8	745.7	710.1	691.3	680.2	683.5
40°	2512.1	2210.3	1638.9	727.9	686.8	688.0	671.3	628.0	581.4	553.7	560.3
42.5°	2713.0	2374.5	1610.0	645.8	625.8	622.5	609.2	550.4	511.5	489.3	490.4
45°	2873.9	2544.3	1565.6	597.0	570.3	575.9	545.9	510.4	474.9	454.9	453.8
47.5°	3034.8	2673.0	1494.6	567.0	529.3	519.3	507.1	482.7	456.0	433.9	435.0
50°	3181.2	2782.9	1428.1	547.0	491.6	466.0	468.3	453.8	430.5	410.6	409.4
52.5°	3284.4	2855.0	1391.4	535.9	446.1	418.3	426.1	418.3	396.1	381.7	380.6
55°	3387.6	2910.5	1403.6	521.5	396.1	373.9	387.3	385.0	372.8	368.4	369.5
57.5°	3470.8	2952.6	1446.9	494.9	348.4	335.1	357.3	350.6	341.8	342.9	342.9
60°	3551.8	3007.0	1498.0	433.9	307.4	308.5	329.6	317.3	311.8	321.8	322.9
62.5°	3636.2	3065.8	1455.8	345.1	271.9	279.6	304.0	294.0	296.3	310.7	315.1
65°	3626.2	3060.3	1186.2	282.9	240.8	256.3	292.9	289.6	290.7	296.3	298.5
67.5°	3422.0	2865.0	815.6	240.8	218.6	237.5	284.1	270.7	271.9	268.5	269.6
68°	3353.2	2796.2	719.0	234.1	214.2	233.0	279.6	267.4	268.5	265.2	264.1
70°	2978.2	2394.5	454.9	206.4	198.6	220.8	257.4	253.0	251.9	249.7	249.7
72.5°	2270.2	1767.6	239.7	178.6	180.9	201.9	229.7	238.6	233.0	234.1	240.8
75°	1503.5	1063.0	166.4	153.1	158.7	173.1	204.2	221.9	216.4	219.7	216.4
77.5°	795.6	572.6	133.2	129.8	129.8	139.8	168.7	196.4	196.4	194.2	190.9
80°	260.8	201.9	106.5	102.1	104.3	109.9	135.4	160.9	164.2	159.8	157.6
82.5°	87.7	93.2	79.9	74.3	76.6	81.0	102.1	123.2	124.3	115.4	113.2
85°	54.4	62.1	49.9	48.8	48.8	49.9	62.1	67.7	62.1	55.5	57.7
87.5°	25.5	31.1	23.3	20.0	16.6	14.4	11.1	4.4	4.4	2.2	2.2
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)