

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: P1210699

Luminaire Tested: **ARCH3-40-750-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210699
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: ARCH3-40-750-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 345mA LIGHTSQUARE WITH 40 LEDS AND TYPE III ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7394 lumens
Efficiency: N/A
Efficacy: 169.6 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

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



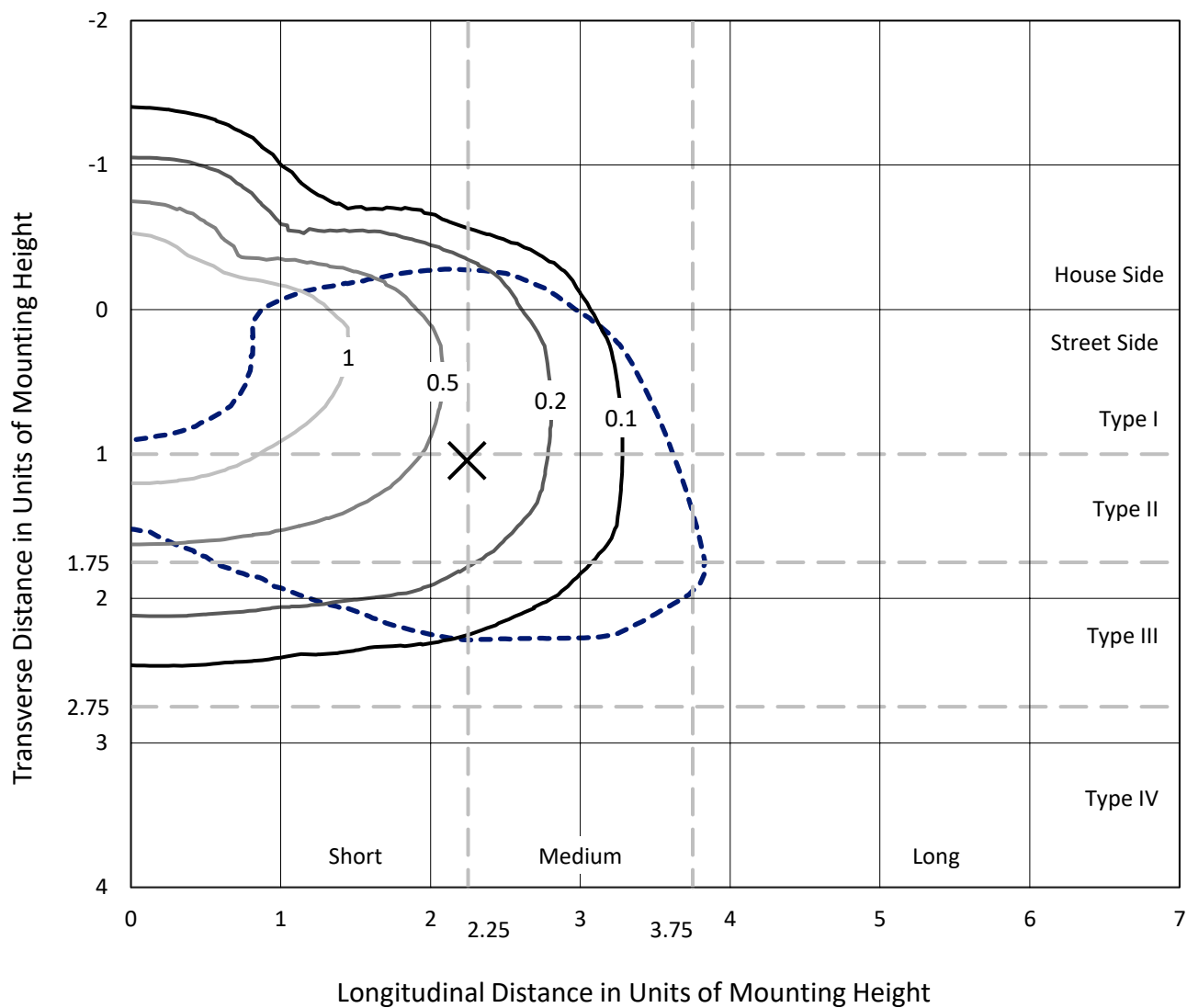
REPORT NUMBER: P1210699

CATALOG NUMBER: ARCH3-40-750-U-T3RE

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

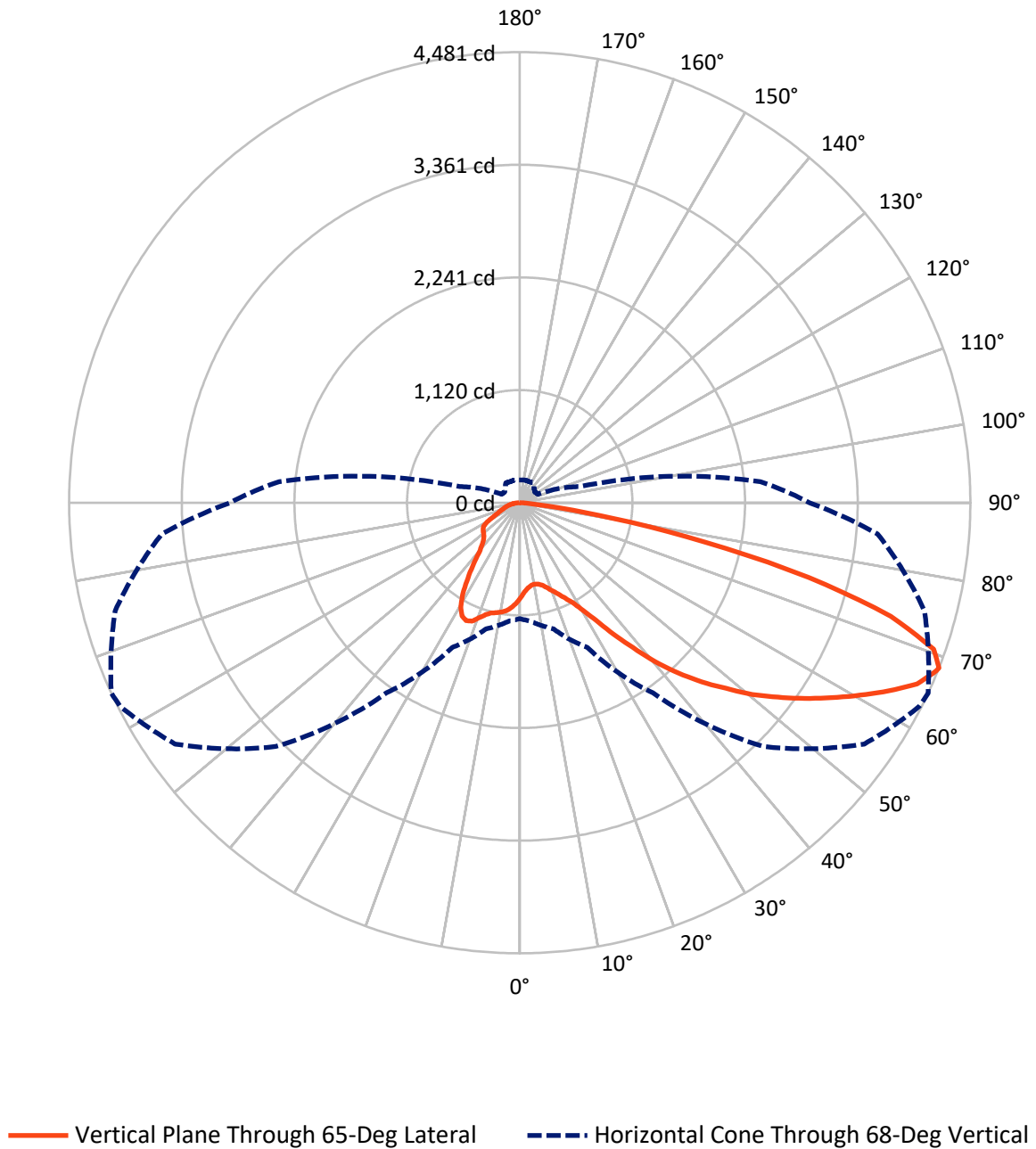


Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
Type III - Short - N/A

REPORT NUMBER: P1210699

CATALOG NUMBER: ARCH3-40-750-U-T3RE

Luminous Intensity Polar Plot



REPORT NUMBER: P1210699

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1812.8	0.0	1812.8
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	5581.2	0.0	5581.2
	% Fixture	75.5	0.0	75.5
Total	Lumens	7394.0	0.0	7394.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.3	1.2
10°-20°	294.0	4.0
20°-30°	532.1	7.2
30°-40°	837.1	11.3
40°-50°	1246.8	16.9
50°-60°	1635.6	22.1
60°-70°	1788.6	24.2
70°-80°	885.0	12.0
80°-90°	84.4	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°	7394.0	100.0
0°-180°	7394.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1210699

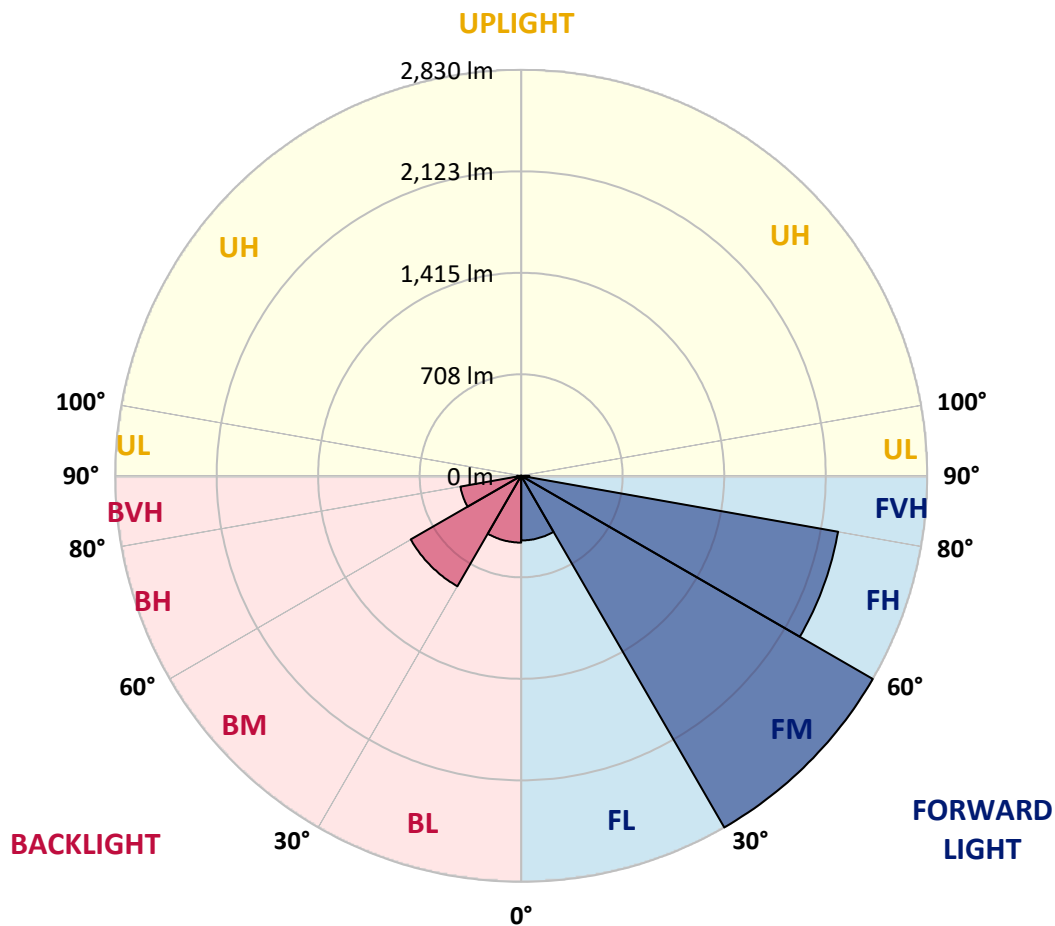
CATALOG NUMBER: ARCH3-40-750-U-T3RE

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	450.7	6.1			
FM	(30°-60°)	2830.3	38.3			
FH	(60°-80°)	2243.4	30.3			G2/5000
FVH	(80°-90°)	56.8	0.8			G1/100
BL	(0°-30°)	465.7	6.3	B1/500		
BM	(30°-60°)	889.2	12.0	B1/1000		
BH	(60°-80°)	430.3	5.8	B1/500		G1/500
BVH	(80°-90°)	27.6	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-G2

Type III Short



REPORT NUMBER: P1210699

CATALOG NUMBER: ARCH3-40-750-U-T3RE

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9
2.5°	824.7	822.8	827.6	832.4	842.8	855.2	872.4	886.7	888.6	915.3	936.3
5°	776.1	773.2	778.0	783.7	788.5	803.8	821.9	842.8	851.4	890.5	935.3
7.5°	780.9	779.9	781.8	779.9	779.9	786.6	799.0	820.0	829.5	876.2	940.1
10°	808.5	810.4	811.4	805.7	799.9	797.1	800.9	815.2	821.9	877.2	961.1
12.5°	854.3	857.1	858.1	847.6	840.0	827.6	820.9	826.6	831.4	886.7	990.6
15°	916.3	918.2	911.5	904.8	885.7	870.5	854.3	849.5	851.4	906.7	1024.0
17.5°	988.7	985.9	985.9	969.7	944.9	921.0	894.3	890.5	890.5	939.1	1071.7
20°	1067.9	1070.7	1062.1	1040.2	1015.4	978.2	951.5	934.4	936.3	976.3	1129.8
22.5°	1182.3	1187.0	1164.2	1132.7	1094.6	1051.6	1013.5	985.9	986.8	1025.0	1189.9
25°	1305.3	1307.2	1292.9	1250.9	1199.4	1138.4	1087.9	1052.6	1051.6	1079.3	1267.1
27.5°	1431.1	1439.7	1411.1	1371.1	1323.4	1247.1	1180.4	1132.7	1125.1	1162.2	1363.4
30°	1560.8	1571.3	1543.6	1504.5	1445.4	1380.6	1301.5	1246.2	1241.4	1291.0	1492.1
32.5°	1691.4	1694.3	1672.3	1639.9	1586.5	1525.5	1461.6	1400.6	1395.8	1476.9	1659.0
35°	1798.2	1806.8	1791.5	1783.9	1744.8	1688.5	1626.6	1591.3	1603.7	1707.6	1875.4
37.5°	1926.9	1935.5	1918.3	1916.4	1904.0	1855.4	1812.5	1815.4	1827.8	1968.9	2103.3
40°	2112.8	2122.4	2078.5	2059.4	2059.4	2011.8	1997.5	2065.2	2081.4	2226.3	2340.7
42.5°	2270.2	2285.4	2259.7	2247.3	2210.1	2176.7	2193.9	2289.2	2316.9	2472.3	2547.6
45°	2346.4	2357.9	2388.4	2424.6	2388.4	2330.2	2395.1	2502.8	2541.9	2699.2	2754.5
47.5°	2387.4	2397.9	2433.2	2530.4	2555.2	2506.6	2598.1	2732.6	2759.3	2924.2	2951.9
50°	2393.1	2426.5	2472.3	2569.5	2683.0	2689.7	2802.2	2966.2	2997.6	3145.4	3125.4
52.5°	2346.4	2359.8	2454.2	2618.2	2744.0	2858.4	3024.3	3190.2	3213.1	3353.3	3278.9
55°	2270.2	2289.2	2383.6	2606.7	2803.1	3018.6	3250.3	3410.5	3436.2	3555.4	3421.0
57.5°	2201.5	2211.0	2312.1	2573.3	2862.2	3178.8	3451.5	3640.3	3657.4	3732.7	3525.8
60°	2125.2	2135.7	2236.8	2501.8	2906.1	3299.9	3661.2	3871.9	3887.2	3919.6	3647.9
62.5°	1927.9	1955.5	2082.3	2383.6	2894.7	3438.1	3885.3	4100.8	4119.8	4084.6	3744.2
65°	1565.6	1604.6	1760.1	2115.7	2787.9	3527.7	4068.3	4311.5	4343.9	4208.5	3769.9
67.5°	1215.6	1243.3	1368.2	1679.0	2413.2	3482.9	4186.6	4456.4	4465.9	4188.5	3626.9
68°	1152.7	1180.4	1299.5	1587.5	2309.2	3429.5	4183.7	4460.2	4481.2	4166.6	3571.6
70°	881.9	913.4	1026.9	1257.6	1861.1	3090.1	4009.2	4368.7	4365.8	3901.5	3228.4
72.5°	551.1	569.2	647.4	793.3	1230.9	2351.2	3402.8	3852.9	3860.5	3180.7	2476.1
75°	349.9	349.9	346.1	384.2	631.2	1339.6	2529.5	2966.2	2971.9	2227.2	1560.8
77.5°	304.1	295.6	254.6	215.5	251.7	520.6	1496.9	1915.5	1884.0	1199.4	740.8
80°	256.5	242.2	208.8	173.5	162.1	163.0	574.9	972.5	930.6	431.9	246.0
82.5°	185.0	172.6	157.3	136.3	124.9	97.3	120.1	281.3	274.6	124.9	80.1
85°	100.1	90.6	88.7	89.6	75.3	60.1	50.5	62.0	62.0	54.3	45.8
87.5°	35.3	25.7	30.5	34.3	29.6	24.8	20.0	23.8	24.8	23.8	21.9
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: P1210699

CATALOG NUMBER: ARCH3-40-750-U-T3RE

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9
2.5°	948.7	958.2	981.1	1001.1	1015.4	1027.8	1034.5	1037.3	1044.0	1045.0	1043.1
5°	956.3	981.1	1015.4	1045.0	1061.2	1067.9	1069.8	1070.7	1067.9	1069.8	1067.9
7.5°	976.3	1007.8	1056.4	1082.2	1085.0	1074.5	1075.5	1071.7	1075.5	1079.3	1079.3
10°	1006.8	1046.9	1092.6	1102.2	1089.8	1084.1	1095.5	1118.4	1126.0	1136.5	1136.5
12.5°	1046.9	1094.6	1127.0	1118.4	1106.9	1126.0	1159.4	1182.3	1189.9	1193.7	1190.9
15°	1092.6	1144.1	1160.3	1131.7	1152.7	1193.7	1205.2	1191.8	1172.7	1164.2	1168.9
17.5°	1150.8	1193.7	1184.2	1165.1	1212.8	1218.5	1181.3	1138.4	1107.9	1096.5	1104.1
20°	1211.8	1249.0	1205.2	1213.7	1243.3	1182.3	1111.7	1056.4	1029.7	1025.0	1032.6
22.5°	1276.7	1300.5	1226.1	1270.0	1226.1	1102.2	1017.3	988.7	982.0	989.7	996.3
25°	1350.1	1347.2	1262.4	1287.1	1162.2	1004.0	953.4	951.5	951.5	956.3	965.8
27.5°	1433.0	1388.2	1298.6	1264.3	1051.6	922.9	913.4	914.4	911.5	912.4	917.2
30°	1529.3	1443.5	1338.6	1188.9	927.7	861.9	858.1	855.2	848.6	846.7	848.6
32.5°	1650.4	1501.7	1379.6	1065.0	819.0	799.0	797.1	781.8	765.6	763.7	770.4
35°	1803.9	1607.5	1400.6	909.6	729.4	728.4	721.8	697.9	676.9	676.9	672.2
37.5°	1979.4	1743.8	1409.2	758.0	655.0	659.8	640.7	610.2	594.0	584.5	587.3
40°	2158.6	1899.3	1408.2	625.5	590.2	591.1	576.8	539.6	499.6	475.8	481.5
42.5°	2331.2	2040.4	1383.4	554.9	537.7	534.9	523.4	472.9	439.5	420.5	421.4
45°	2469.4	2186.2	1345.3	513.0	490.1	494.8	469.1	438.6	408.1	390.9	390.0
47.5°	2607.7	2296.8	1284.3	487.2	454.8	446.2	435.7	414.7	391.9	372.8	373.8
50°	2733.5	2391.2	1227.1	470.0	422.4	400.4	402.4	390.0	369.9	352.8	351.8
52.5°	2822.2	2453.2	1195.6	460.5	383.3	359.4	366.1	359.4	340.4	328.0	327.0
55°	2910.9	2500.9	1206.1	448.1	340.4	321.3	332.8	330.8	320.4	316.5	317.5
57.5°	2982.4	2537.1	1243.3	425.2	299.4	287.9	307.0	301.3	293.7	294.6	294.6
60°	3052.0	2583.8	1287.1	372.8	264.1	265.1	283.2	272.7	267.9	276.5	277.5
62.5°	3124.4	2634.4	1250.9	296.5	233.6	240.3	261.2	252.7	254.6	267.0	270.8
65°	3115.9	2629.6	1019.2	243.1	206.9	220.2	251.7	248.8	249.8	254.6	256.5
67.5°	2940.4	2461.8	700.8	206.9	187.8	204.0	244.1	232.6	233.6	230.7	231.7
68°	2881.3	2402.7	617.8	201.2	184.0	200.2	240.3	229.8	230.7	227.9	226.9
70°	2559.0	2057.5	390.9	177.3	170.7	189.7	221.2	217.4	216.4	214.5	214.5
72.5°	1950.7	1518.8	205.9	153.5	155.4	173.5	197.4	205.0	200.2	201.2	206.9
75°	1291.9	913.4	143.0	131.6	136.3	148.7	175.4	190.7	185.9	188.8	185.9
77.5°	683.6	492.0	114.4	111.6	111.6	120.1	144.9	168.8	168.8	166.9	164.0
80°	224.1	173.5	91.5	87.7	89.6	94.4	116.3	138.2	141.1	137.3	135.4
82.5°	75.3	80.1	68.6	63.9	65.8	69.6	87.7	105.8	106.8	99.2	97.3
85°	46.7	53.4	42.9	42.0	42.0	42.9	53.4	58.2	53.4	47.7	49.6
87.5°	21.9	26.7	20.0	17.2	14.3	12.4	9.5	3.8	3.8	1.9	1.9
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)