

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: P1210679

Luminaire Tested: **ARCH3-40-722-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210679
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: ARCH3-40-722-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 345mA LIGHTSQUARE WITH 40 LEDS AND TYPE III ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6161 lumens
Efficiency: N/A
Efficacy: 141.3 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



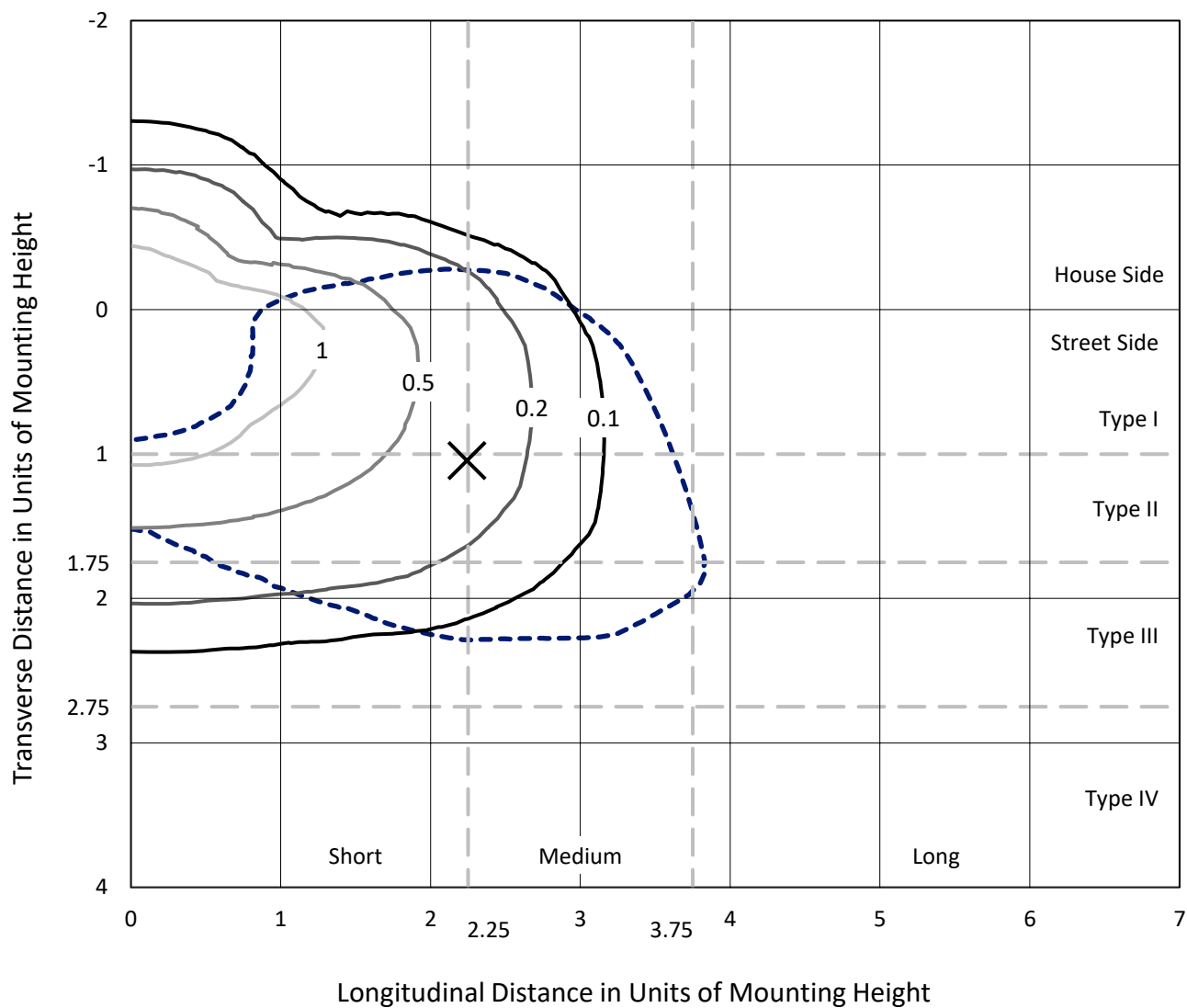
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



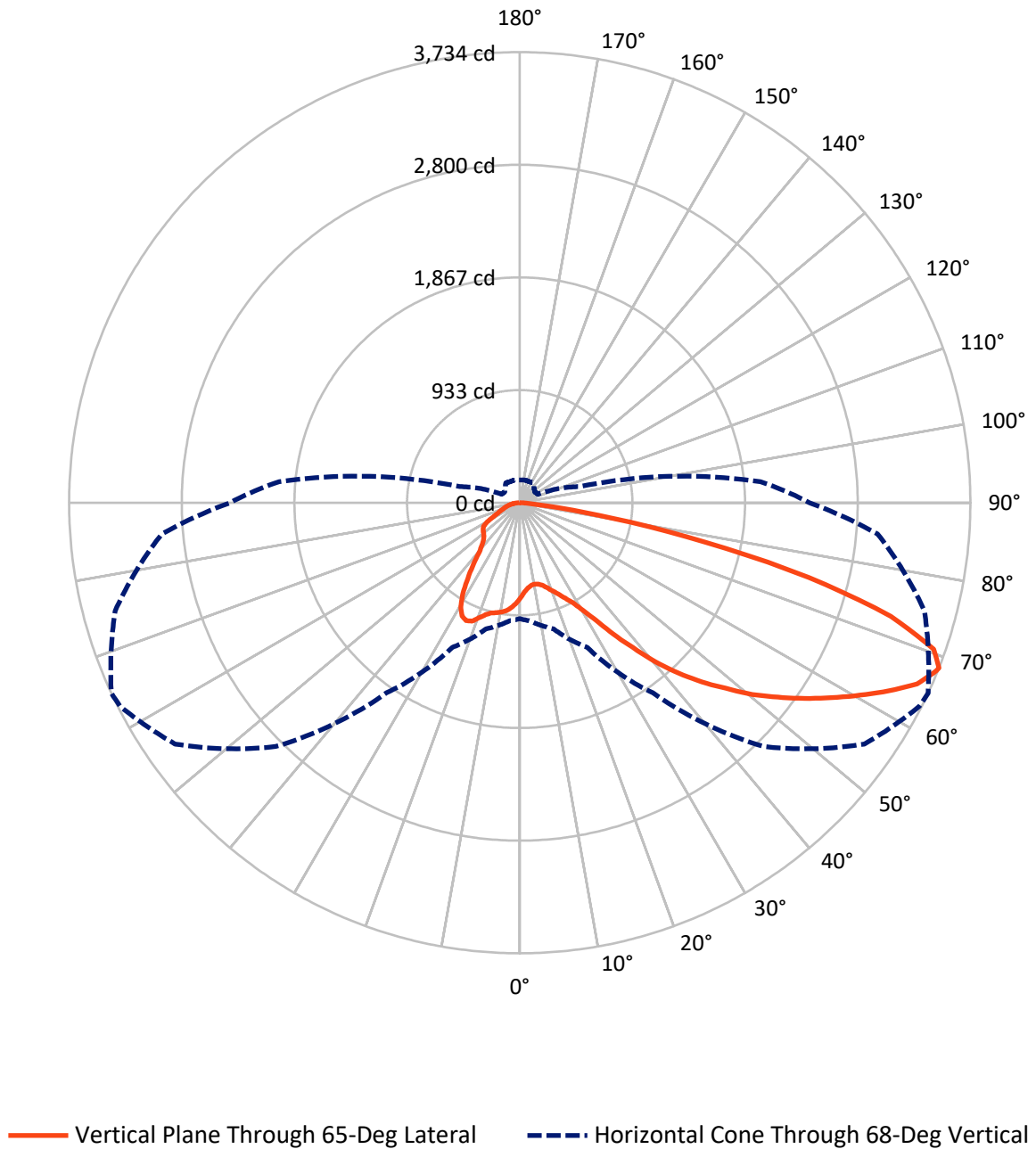
Based on 25 foot mounting height. Maximum calculated value = 1.4 fc

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	1510.5	0.0	1510.5
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	4650.5	0.0	4650.5
	% Fixture	75.5	0.0	75.5
Total	Lumens	6161.0	0.0	6161.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.2	1.2
10°-20°	245.0	4.0
20°-30°	443.4	7.2
30°-40°	697.5	11.3
40°-50°	1038.9	16.9
50°-60°	1362.8	22.1
60°-70°	1490.3	24.2
70°-80°	737.5	12.0
80°-90°	70.4	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°	6161.0	100.0
0°-180°	6161.0	100.0

Coefficient of Utilization



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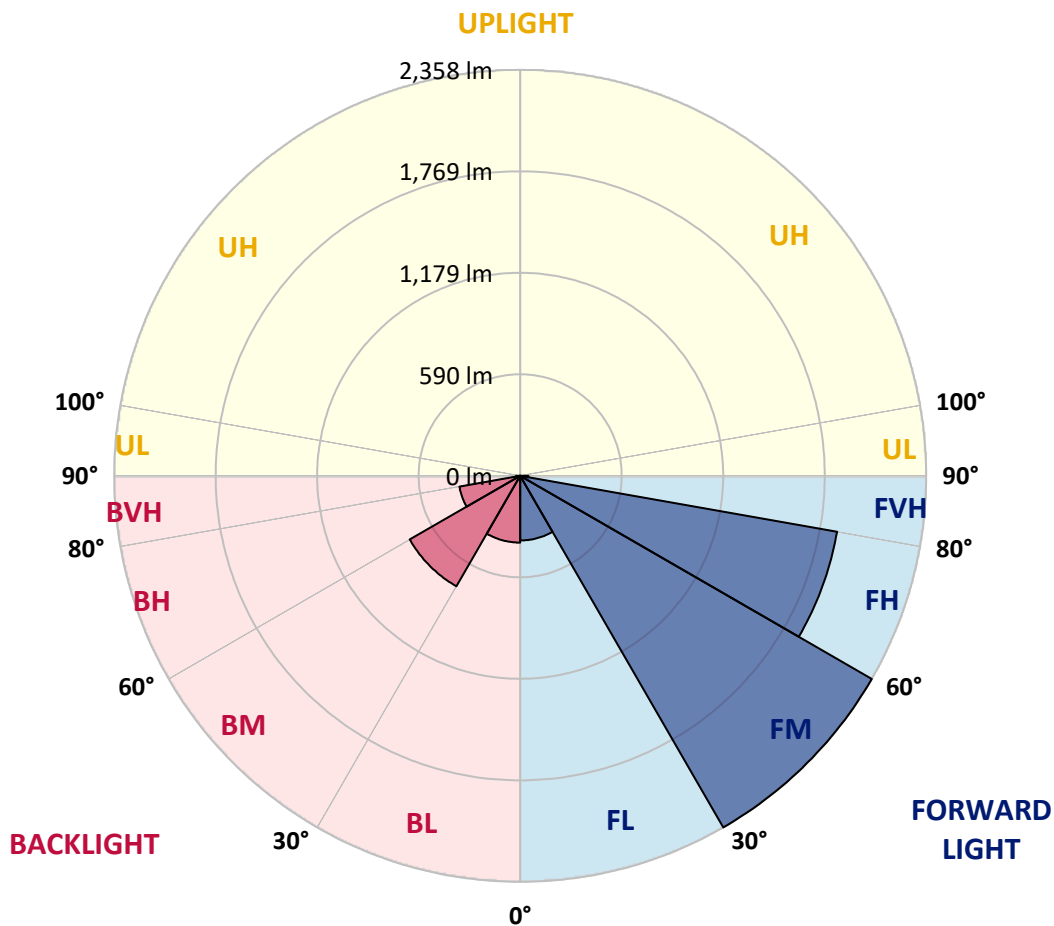
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	375.6	6.1			
FM	(30°-60°)	2358.3	38.3			
FH	(60°-80°)	1869.3	30.3			G2/5000
FVH	(80°-90°)	47.3	0.8			G1/100
BL	(0°-30°)	388.1	6.3	B1/500		
BM	(30°-60°)	740.9	12.0	B1/1000		
BH	(60°-80°)	358.5	5.8	B1/500		G1/500
BVH	(80°-90°)	23.0	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3
2.5°	687.2	685.6	689.6	693.6	702.3	712.6	726.9	738.8	740.4	762.7	780.2
5°	646.7	644.3	648.3	653.0	657.0	669.7	684.8	702.3	709.4	742.0	779.4
7.5°	650.7	649.9	651.4	649.9	649.9	655.4	665.7	683.2	691.2	730.1	783.3
10°	673.7	675.3	676.1	671.3	666.5	664.2	667.3	679.3	684.8	730.9	800.8
12.5°	711.8	714.2	715.0	706.3	699.9	689.6	684.0	688.8	692.8	738.8	825.4
15°	763.5	765.1	759.5	753.9	738.0	725.3	711.8	707.9	709.4	755.5	853.2
17.5°	823.8	821.5	821.5	808.0	787.3	767.4	745.2	742.0	742.0	782.5	893.0
20°	889.8	892.2	885.0	866.7	846.1	815.1	792.9	778.6	780.2	813.5	941.4
22.5°	985.1	989.1	970.0	943.8	912.0	876.3	844.5	821.5	822.3	854.0	991.5
25°	1087.6	1089.2	1077.3	1042.3	999.4	948.6	906.5	877.1	876.3	899.3	1055.8
27.5°	1192.5	1199.6	1175.8	1142.4	1102.7	1039.1	983.5	943.8	937.5	968.4	1136.1
30°	1300.5	1309.3	1286.2	1253.6	1204.4	1150.4	1084.4	1038.3	1034.4	1075.7	1243.3
32.5°	1409.4	1411.7	1393.5	1366.5	1322.0	1271.1	1217.9	1167.0	1163.1	1230.6	1382.3
35°	1498.3	1505.5	1492.8	1486.4	1453.8	1407.0	1355.3	1325.9	1336.3	1422.9	1562.7
37.5°	1605.6	1612.7	1598.4	1596.8	1586.5	1546.0	1510.3	1512.6	1523.0	1640.5	1752.6
40°	1760.5	1768.4	1731.9	1716.0	1716.0	1676.3	1664.4	1720.8	1734.3	1855.0	1950.4
42.5°	1891.6	1904.3	1882.8	1872.5	1841.5	1813.7	1828.0	1907.5	1930.5	2060.0	2122.8
45°	1955.1	1964.7	1990.1	2020.3	1990.1	1941.6	1995.7	2085.4	2118.0	2249.1	2295.2
47.5°	1989.3	1998.0	2027.4	2108.5	2129.1	2088.6	2164.9	2276.9	2299.1	2436.6	2459.6
50°	1994.1	2021.9	2060.0	2141.0	2235.6	2241.1	2334.9	2471.5	2497.8	2620.9	2604.2
52.5°	1955.1	1966.3	2044.9	2181.6	2286.4	2381.8	2520.0	2658.2	2677.3	2794.1	2732.1
55°	1891.6	1907.5	1986.1	2172.0	2335.7	2515.2	2708.3	2841.8	2863.2	2962.5	2850.5
57.5°	1834.4	1842.3	1926.5	2144.2	2384.9	2648.7	2875.9	3033.2	3047.5	3110.3	2937.9
60°	1770.8	1779.6	1863.8	2084.6	2421.5	2749.6	3050.7	3226.3	3239.0	3266.0	3039.6
62.5°	1606.4	1629.4	1735.1	1986.1	2412.0	2864.8	3237.4	3416.9	3432.8	3403.4	3119.8
65°	1304.5	1337.1	1466.6	1762.9	2323.0	2939.5	3389.9	3592.5	3619.5	3506.7	3141.3
67.5°	1012.9	1036.0	1140.0	1399.0	2010.8	2902.1	3488.4	3713.3	3721.2	3490.0	3022.1
68°	960.5	983.5	1082.8	1322.8	1924.2	2857.6	3486.1	3716.4	3733.9	3471.8	2976.0
70°	734.9	761.1	855.6	1047.9	1550.8	2574.8	3340.7	3640.2	3637.8	3250.9	2690.0
72.5°	459.2	474.3	539.4	661.0	1025.6	1959.1	2835.4	3210.4	3216.7	2650.3	2063.2
75°	291.6	291.6	288.4	320.2	525.9	1116.2	2107.7	2471.5	2476.3	1855.8	1300.5
77.5°	253.4	246.3	212.1	179.5	209.7	433.8	1247.3	1596.1	1569.8	999.4	617.3
80°	213.7	201.8	174.0	144.6	135.1	135.9	479.1	810.3	775.4	359.9	205.0
82.5°	154.1	143.8	131.1	113.6	104.1	81.0	100.1	234.4	228.8	104.1	66.7
85°	83.4	75.5	73.9	74.7	62.8	50.1	42.1	51.6	51.6	45.3	38.1
87.5°	29.4	21.5	25.4	28.6	24.6	20.7	16.7	19.9	20.7	19.9	18.3
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°	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3
2.5°	790.5	798.4	817.5	834.2	846.1	856.4	862.0	864.4	869.9	870.7	869.1
5°	796.8	817.5	846.1	870.7	884.2	889.8	891.4	892.2	889.8	891.4	889.8
7.5°	813.5	839.7	880.3	901.7	904.1	895.3	896.1	893.0	896.1	899.3	899.3
10°	838.9	872.3	910.4	918.4	908.1	903.3	912.8	931.9	938.2	947.0	947.0
12.5°	872.3	912.0	939.0	931.9	922.4	938.2	966.1	985.1	991.5	994.7	992.3
15°	910.4	953.3	966.8	943.0	960.5	994.7	1004.2	993.1	977.2	970.0	974.0
17.5°	958.9	994.7	986.7	970.8	1010.5	1015.3	984.3	948.6	923.2	913.6	920.0
20°	1009.7	1040.7	1004.2	1011.3	1036.0	985.1	926.3	880.3	858.0	854.0	860.4
22.5°	1063.8	1083.6	1021.7	1058.2	1021.7	918.4	847.7	823.8	818.3	824.6	830.2
25°	1124.9	1122.6	1051.9	1072.5	968.4	836.6	794.5	792.9	792.9	796.8	804.8
27.5°	1194.1	1156.7	1082.0	1053.4	876.3	769.0	761.1	761.9	759.5	760.3	764.3
30°	1274.3	1202.8	1115.4	990.7	773.0	718.2	715.0	712.6	707.1	705.5	707.1
32.5°	1375.2	1251.3	1149.6	887.4	682.4	665.7	664.2	651.4	637.9	636.4	641.9
35°	1503.1	1339.4	1167.0	757.9	607.8	607.0	601.4	581.5	564.1	564.1	560.1
37.5°	1649.3	1453.1	1174.2	631.6	545.8	549.8	533.9	508.4	494.9	487.0	489.4
40°	1798.6	1582.5	1173.4	521.2	491.8	492.6	480.6	449.7	416.3	396.4	401.2
42.5°	1942.4	1700.1	1152.7	462.4	448.1	445.7	436.2	394.0	366.2	350.4	351.1
45°	2057.6	1821.7	1121.0	427.4	408.3	412.3	390.9	365.4	340.0	325.7	324.9
47.5°	2172.8	1913.8	1070.1	406.0	379.0	371.8	363.1	345.6	326.5	310.6	311.4
50°	2277.7	1992.5	1022.5	391.7	351.9	333.7	335.3	324.9	308.2	293.9	293.2
52.5°	2351.6	2044.1	996.2	383.7	319.4	299.5	305.1	299.5	283.6	273.3	272.5
55°	2425.5	2083.8	1005.0	373.4	283.6	267.7	277.3	275.7	266.9	263.8	264.6
57.5°	2485.0	2114.0	1036.0	354.3	249.5	239.9	255.8	251.0	244.7	245.5	245.5
60°	2543.0	2153.0	1072.5	310.6	220.1	220.9	236.0	227.2	223.2	230.4	231.2
62.5°	2603.4	2195.1	1042.3	247.1	194.6	200.2	217.7	210.5	212.1	222.4	225.6
65°	2596.3	2191.1	849.3	202.6	172.4	183.5	209.7	207.4	208.1	212.1	213.7
67.5°	2450.1	2051.3	583.9	172.4	156.5	170.0	203.4	193.8	194.6	192.3	193.1
68°	2400.8	2002.0	514.8	167.6	153.3	166.8	200.2	191.5	192.3	189.9	189.1
70°	2132.3	1714.4	325.7	147.8	142.2	158.1	184.3	181.1	180.3	178.8	178.8
72.5°	1625.4	1265.6	171.6	127.9	129.5	144.6	164.5	170.8	166.8	167.6	172.4
75°	1076.5	761.1	119.2	109.6	113.6	123.9	146.2	158.9	154.9	157.3	154.9
77.5°	569.6	409.9	95.3	93.0	93.0	100.1	120.8	140.6	140.6	139.0	136.6
80°	186.7	144.6	76.3	73.1	74.7	78.7	96.9	115.2	117.6	114.4	112.8
82.5°	62.8	66.7	57.2	53.2	54.8	58.0	73.1	88.2	89.0	82.6	81.0
85°	38.9	44.5	35.8	35.0	35.0	35.8	44.5	48.5	44.5	39.7	41.3
87.5°	18.3	22.2	16.7	14.3	11.9	10.3	7.9	3.2	3.2	1.6	1.6
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)