

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: P1210219

Luminaire Tested: **ARCH2-50-750-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210219
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: ARCH2-50-750-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 410mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

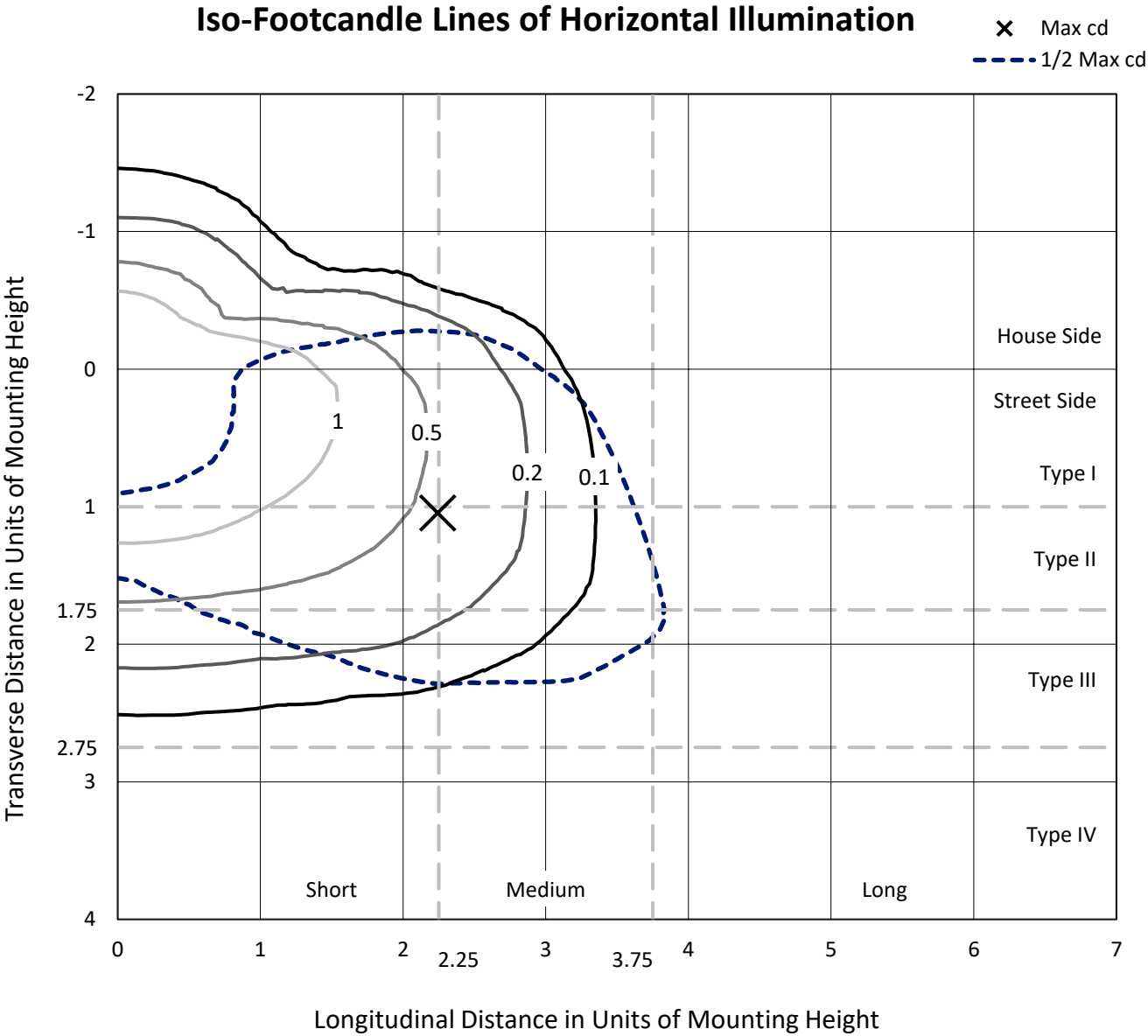
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8183 lumens
Efficiency: N/A
Efficacy: 151.5 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 54
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



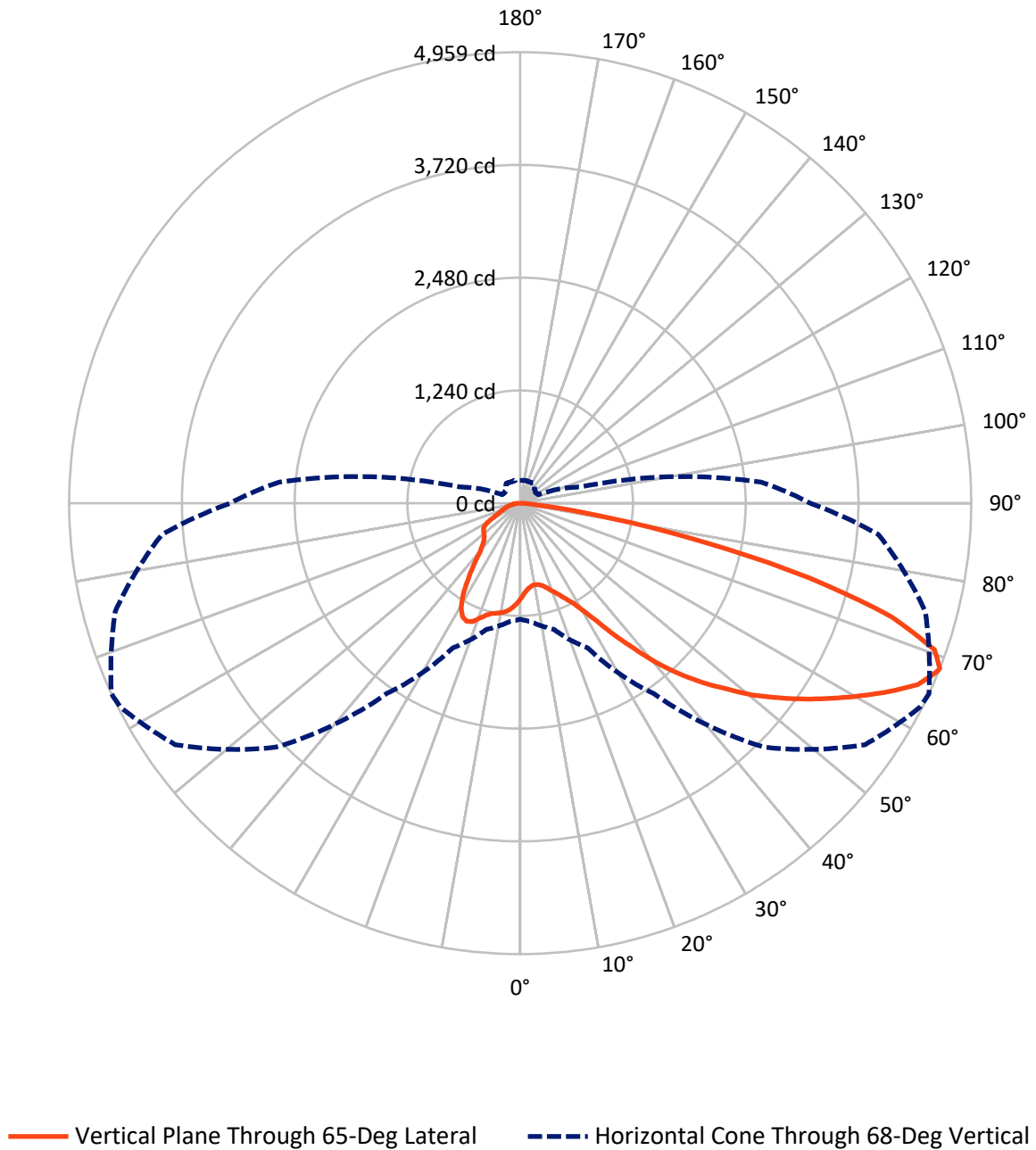
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Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2006.2	0.0	2006.2
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	6176.8	0.0	6176.8
	% Fixture	75.5	0.0	75.5
Total	Lumens	8183.0	0.0	8183.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.9	1.2
10°-20°	325.4	4.0
20°-30°	588.9	7.2
30°-40°	926.4	11.3
40°-50°	1379.8	16.9
50°-60°	1810.1	22.1
60°-70°	1979.4	24.2
70°-80°	979.5	12.0
80°-90°	93.4	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°	8183.0	100.0
0°-180°	8183.0	100.0

Coefficient of Utilization



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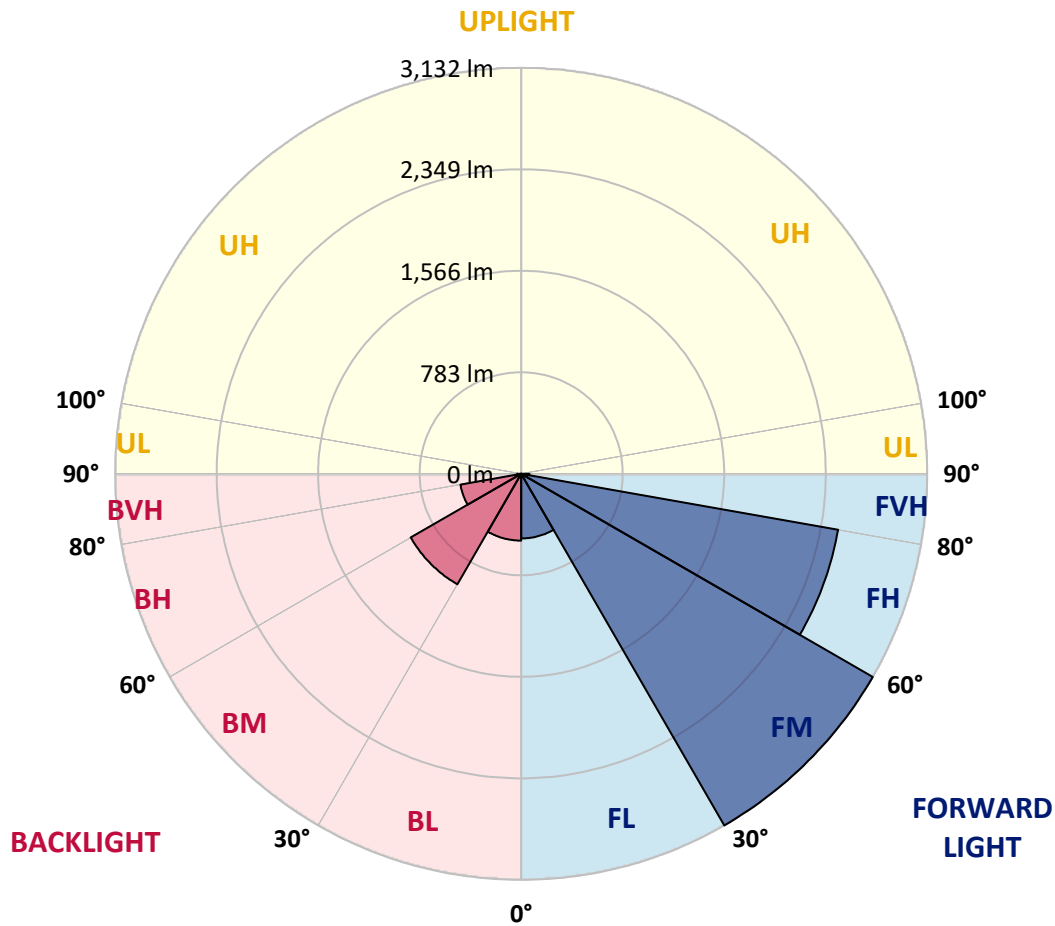
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	498.8	6.1			
FM	(30°-60°)	3132.3	38.3			
FH	(60°-80°)	2482.7	30.3			G2/5000
FVH	(80°-90°)	62.8	0.8			G1/100
BL	(0°-30°)	515.4	6.3	B2/1000		
BM	(30°-60°)	984.0	12.0	B1/1000		
BH	(60°-80°)	476.2	5.8	B1/500		G1/500
BVH	(80°-90°)	30.6	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7
2.5°	912.7	910.6	915.9	921.2	932.8	946.5	965.5	981.3	983.4	1013.0	1036.2
5°	858.9	855.8	861.0	867.4	872.6	889.5	909.6	932.8	942.3	985.5	1035.1
7.5°	864.2	863.1	865.3	863.1	863.1	870.5	884.2	907.5	918.0	969.7	1040.4
10°	894.8	896.9	898.0	891.6	885.3	882.1	886.4	902.2	909.6	970.8	1063.6
12.5°	945.4	948.6	949.7	938.1	929.6	915.9	908.5	914.8	920.1	981.3	1096.3
15°	1014.0	1016.1	1008.8	1001.4	980.3	963.4	945.4	940.2	942.3	1003.5	1133.3
17.5°	1094.2	1091.1	1091.1	1073.1	1045.7	1019.3	989.8	985.5	985.5	1039.4	1186.0
20°	1181.8	1185.0	1175.5	1151.2	1123.8	1082.6	1053.1	1034.1	1036.2	1080.5	1250.4
22.5°	1308.4	1313.7	1288.4	1253.6	1211.4	1163.9	1121.7	1091.1	1092.1	1134.3	1316.9
25°	1444.5	1446.7	1430.8	1384.4	1327.4	1259.9	1204.0	1164.9	1163.9	1194.5	1402.3
27.5°	1583.8	1593.3	1561.7	1517.4	1464.6	1380.2	1306.3	1253.6	1245.1	1286.3	1508.9
30°	1727.3	1738.9	1708.3	1665.1	1599.7	1527.9	1440.3	1379.1	1373.9	1428.7	1651.4
32.5°	1871.9	1875.1	1850.8	1814.9	1755.8	1688.3	1617.6	1550.1	1544.8	1634.5	1836.0
35°	1990.1	1999.6	1982.7	1974.3	1931.0	1868.7	1800.1	1761.1	1774.8	1889.8	2075.5
37.5°	2132.5	2142.0	2123.0	2120.9	2107.2	2053.4	2005.9	2009.1	2022.8	2179.0	2327.7
40°	2338.3	2348.8	2300.3	2279.2	2279.2	2226.4	2210.6	2285.5	2303.5	2463.9	2590.5
42.5°	2512.4	2529.3	2500.8	2487.1	2445.9	2409.0	2428.0	2533.5	2564.1	2736.1	2819.5
45°	2596.8	2609.5	2643.2	2683.3	2643.2	2578.9	2650.6	2769.9	2813.1	2987.2	3048.4
47.5°	2642.2	2653.8	2692.8	2800.5	2827.9	2774.1	2875.4	3024.2	3053.7	3236.3	3266.9
50°	2648.5	2685.4	2736.1	2843.7	2969.3	2976.7	3101.2	3282.7	3317.5	3481.1	3458.9
52.5°	2596.8	2611.6	2716.0	2897.5	3036.8	3163.4	3347.0	3530.6	3556.0	3711.1	3628.8
55°	2512.4	2533.5	2638.0	2884.9	3102.2	3340.7	3597.1	3774.4	3802.9	3934.8	3786.0
57.5°	2436.4	2447.0	2558.8	2847.9	3167.7	3518.0	3819.8	4028.7	4047.7	4131.0	3902.1
60°	2352.0	2363.6	2475.5	2768.8	3216.2	3652.0	4051.9	4285.1	4302.0	4337.9	4037.1
62.5°	2133.6	2164.2	2304.5	2638.0	3203.5	3805.0	4299.9	4538.3	4559.5	4520.4	4143.7
65°	1732.6	1775.9	1947.9	2341.5	3085.4	3904.2	4502.5	4771.5	4807.4	4657.6	4172.2
67.5°	1345.4	1376.0	1514.2	1858.2	2670.7	3854.6	4633.3	4931.9	4942.5	4635.4	4013.9
68°	1275.7	1306.3	1438.2	1756.9	2555.7	3795.5	4630.1	4936.2	4959.4	4611.2	3952.7
70°	976.0	1010.9	1136.4	1391.8	2059.7	3419.9	4437.1	4834.9	4831.7	4317.8	3572.9
72.5°	609.9	629.9	716.5	877.9	1362.2	2602.1	3766.0	4264.0	4272.4	3520.1	2740.3
75°	387.3	387.3	383.0	425.2	698.5	1482.5	2799.4	3282.7	3289.0	2464.9	1727.3
77.5°	336.6	327.1	281.7	238.5	278.6	576.1	1656.6	2119.9	2085.0	1327.4	819.9
80°	283.8	268.0	231.1	192.0	179.4	180.4	636.3	1076.3	1029.9	478.0	272.2
82.5°	204.7	191.0	174.1	150.9	138.2	107.6	133.0	311.3	303.9	138.2	88.6
85°	110.8	100.2	98.1	99.2	83.4	66.5	55.9	68.6	68.6	60.1	50.6
87.5°	39.0	28.5	33.8	38.0	32.7	27.4	22.2	26.4	27.4	26.4	24.3
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°	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7	1045.7
2.5°	1049.9	1060.5	1085.8	1107.9	1123.8	1137.5	1144.9	1148.0	1155.4	1156.5	1154.4
5°	1058.4	1085.8	1123.8	1156.5	1174.4	1181.8	1183.9	1185.0	1181.8	1183.9	1181.8
7.5°	1080.5	1115.3	1169.1	1197.6	1200.8	1189.2	1190.2	1186.0	1190.2	1194.5	1194.5
10°	1114.3	1158.6	1209.2	1219.8	1206.1	1199.7	1212.4	1237.7	1246.2	1257.8	1257.8
12.5°	1158.6	1211.4	1247.2	1237.7	1225.1	1246.2	1283.1	1308.4	1316.9	1321.1	1317.9
15°	1209.2	1266.2	1284.2	1252.5	1275.7	1321.1	1333.8	1319.0	1297.9	1288.4	1293.7
17.5°	1273.6	1321.1	1310.5	1289.4	1342.2	1348.5	1307.4	1259.9	1226.1	1213.5	1221.9
20°	1341.1	1382.3	1333.8	1343.2	1376.0	1308.4	1230.3	1169.1	1139.6	1134.3	1142.8
22.5°	1412.9	1439.3	1357.0	1405.5	1357.0	1219.8	1125.9	1094.2	1086.8	1095.3	1102.7
25°	1494.1	1491.0	1397.1	1424.5	1286.3	1111.1	1055.2	1053.1	1053.1	1058.4	1068.9
27.5°	1585.9	1536.3	1437.2	1399.2	1163.9	1021.4	1010.9	1011.9	1008.8	1009.8	1015.1
30°	1692.5	1597.5	1481.5	1315.8	1026.7	953.9	949.7	946.5	939.1	937.0	939.1
32.5°	1826.5	1661.9	1526.9	1178.6	906.4	884.2	882.1	865.3	847.3	845.2	852.6
35°	1996.4	1779.0	1550.1	1006.6	807.2	806.2	798.8	772.4	749.2	749.2	743.9
37.5°	2190.6	1929.9	1559.6	838.9	724.9	730.2	709.1	675.3	657.4	646.8	650.0
40°	2388.9	2101.9	1558.5	692.2	653.2	654.2	638.4	597.2	552.9	526.5	532.9
42.5°	2579.9	2258.1	1531.1	614.1	595.1	592.0	579.3	523.4	486.4	465.3	466.4
45°	2732.9	2419.5	1488.9	567.7	542.4	547.6	519.2	485.4	451.6	432.6	431.6
47.5°	2885.9	2541.9	1421.3	539.2	503.3	493.8	482.2	459.0	433.7	412.6	413.6
50°	3025.2	2646.4	1358.0	520.2	467.4	443.2	445.3	431.6	409.4	390.4	389.4
52.5°	3123.3	2715.0	1323.2	509.7	424.2	397.8	405.2	397.8	376.7	363.0	361.9
55°	3221.5	2767.7	1334.8	495.9	376.7	355.6	368.3	366.1	354.5	350.3	351.4
57.5°	3300.6	2807.8	1376.0	470.6	331.3	318.7	339.8	333.4	325.0	326.1	326.1
60°	3377.6	2859.6	1424.5	412.6	292.3	293.3	313.4	301.8	296.5	306.0	307.1
62.5°	3457.8	2915.5	1384.4	328.2	258.5	265.9	289.1	279.6	281.7	295.5	299.7
65°	3448.3	2910.2	1128.0	269.1	229.0	243.7	278.6	275.4	276.5	281.7	283.8
67.5°	3254.2	2724.5	775.6	229.0	207.9	225.8	270.1	257.5	258.5	255.4	256.4
68°	3188.8	2659.1	683.8	222.6	203.7	221.6	265.9	254.3	255.4	252.2	251.1
70°	2832.1	2277.1	432.6	196.3	188.9	210.0	244.8	240.6	239.5	237.4	237.4
72.5°	2158.9	1680.9	227.9	169.9	172.0	192.0	218.4	226.9	221.6	222.6	229.0
75°	1429.8	1010.9	158.3	145.6	150.9	164.6	194.2	211.0	205.8	208.9	205.8
77.5°	756.6	544.5	126.6	123.5	123.5	133.0	160.4	186.8	186.8	184.7	181.5
80°	248.0	192.0	101.3	97.1	99.2	104.5	128.7	153.0	156.2	151.9	149.8
82.5°	83.4	88.6	76.0	70.7	72.8	77.0	97.1	117.1	118.2	109.7	107.6
85°	51.7	59.1	47.5	46.4	46.4	47.5	59.1	64.4	59.1	52.8	54.9
87.5°	24.3	29.5	22.2	19.0	15.8	13.7	10.6	4.2	4.2	2.1	2.1
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)