

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: P1209983

Luminaire Tested: **ARCH1-40-730-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1209983
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: ARCH1-40-730-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1220mA LIGHTSQUARE WITH 10 LEDS AND TYPE III ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

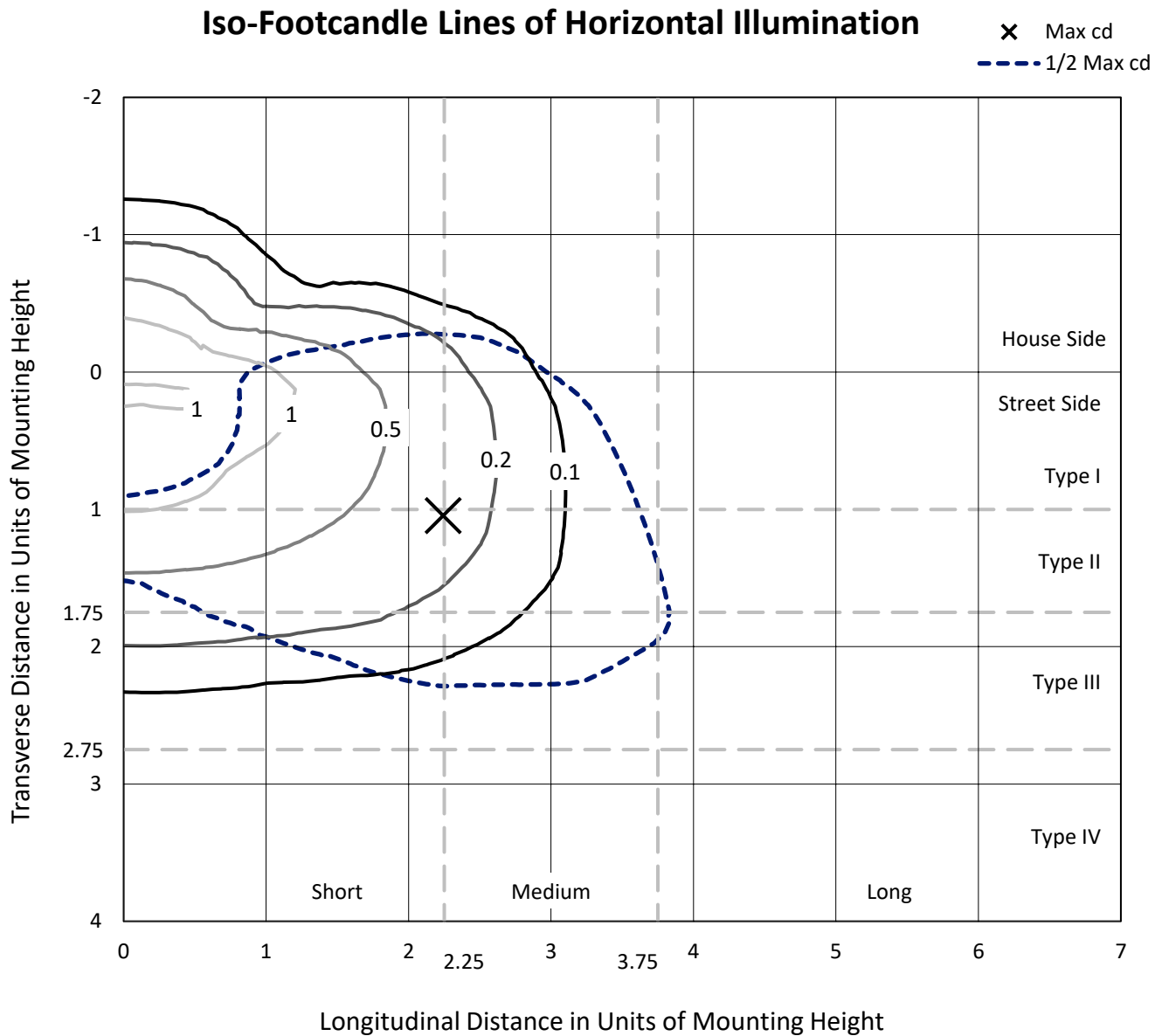
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5675 lumens
Efficiency: N/A
Efficacy: 132.0 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 43
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



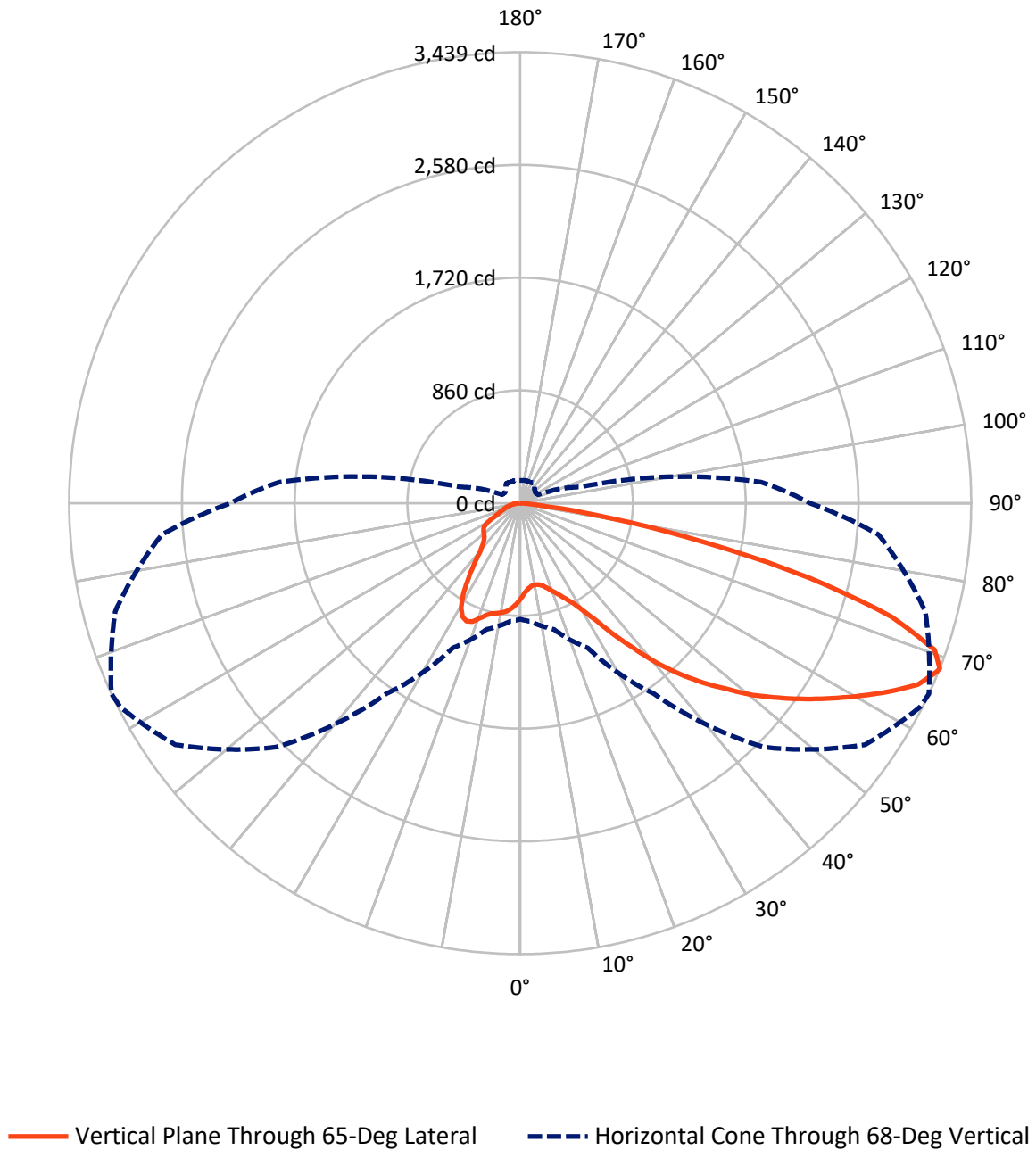
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Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1391.3	0.0	1391.3
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	4283.7	0.0	4283.7
	% Fixture	75.5	0.0	75.5
Total	Lumens	5675.0	0.0	5675.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.3	1.2
10°-20°	225.7	4.0
20°-30°	408.4	7.2
30°-40°	642.5	11.3
40°-50°	956.9	16.9
50°-60°	1255.3	22.1
60°-70°	1372.8	24.2
70°-80°	679.3	12.0
80°-90°	64.8	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°	5675.0	100.0
0°-180°	5675.0	100.0

Coefficient of Utilization



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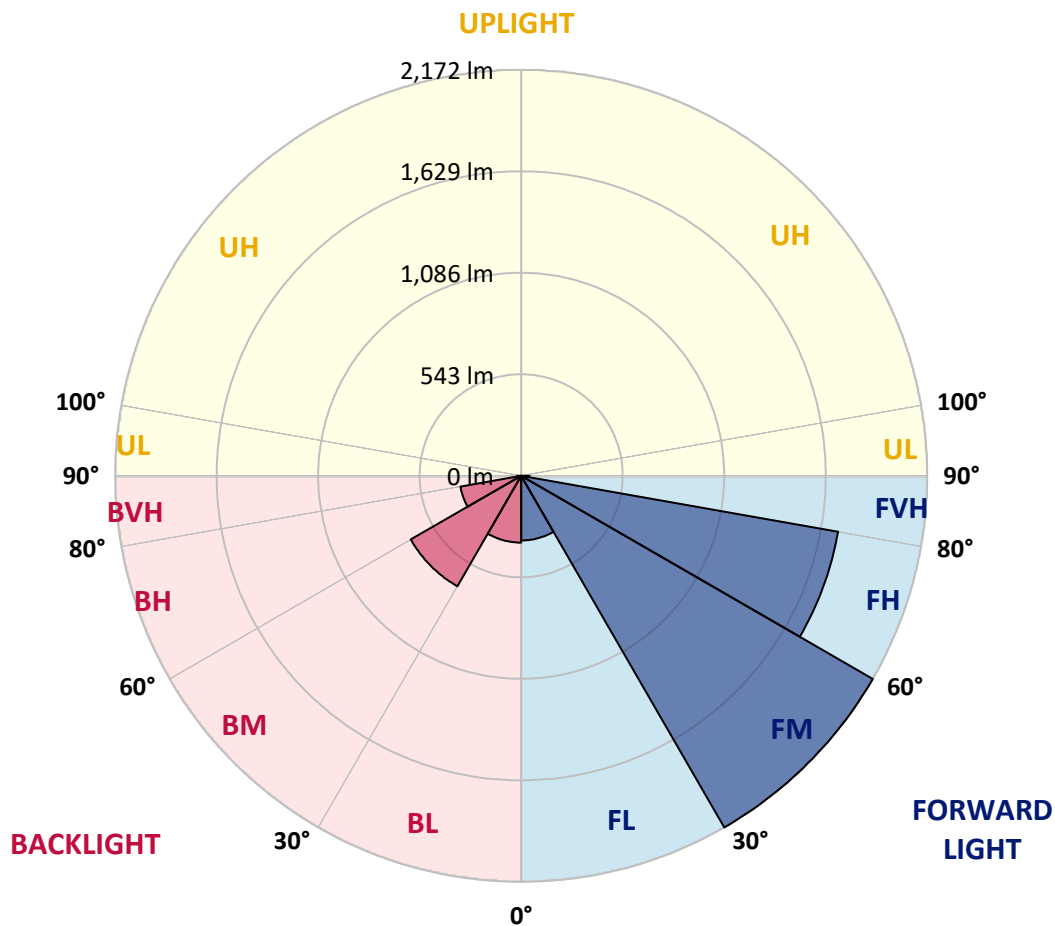
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	346.0	6.1			
FM	(30°-60°)	2172.3	38.3			
FH	(60°-80°)	1721.8	30.3			G1/1800
FVH	(80°-90°)	43.6	0.8			G1/100
BL	(0°-30°)	357.4	6.3	B1/500		
BM	(30°-60°)	682.4	12.0	B1/1000		
BH	(60°-80°)	330.2	5.8	B1/500		G1/500
BVH	(80°-90°)	21.2	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	725.2	725.2	725.2	725.2	725.2	725.2	725.2	725.2	725.2	725.2	725.2
2.5°	633.0	631.5	635.2	638.8	646.9	656.4	669.6	680.6	682.0	702.5	718.6
5°	595.7	593.5	597.1	601.5	605.2	616.9	630.8	646.9	653.5	683.5	717.9
7.5°	599.3	598.6	600.1	598.6	598.6	603.7	613.2	629.3	636.7	672.5	721.5
10°	620.6	622.0	622.7	618.4	614.0	611.8	614.7	625.7	630.8	673.2	737.6
12.5°	655.7	657.9	658.6	650.6	644.7	635.2	630.1	634.5	638.1	680.6	760.3
15°	703.2	704.7	699.6	694.5	679.8	668.1	655.7	652.0	653.5	695.9	785.9
17.5°	758.9	756.7	756.7	744.2	725.2	706.9	686.4	683.5	683.5	720.8	822.5
20°	819.6	821.8	815.2	798.4	779.3	750.8	730.3	717.1	718.6	749.3	867.2
22.5°	907.4	911.1	893.5	869.4	840.1	807.2	777.9	756.7	757.4	786.7	913.3
25°	1001.8	1003.3	992.3	960.1	920.6	873.7	835.0	807.9	807.2	828.4	972.5
27.5°	1098.4	1105.0	1083.0	1052.3	1015.7	957.2	905.9	869.4	863.5	892.0	1046.4
30°	1197.9	1206.0	1184.8	1154.8	1109.4	1059.6	998.9	956.4	952.8	990.8	1145.2
32.5°	1298.2	1300.4	1283.5	1258.7	1217.7	1170.9	1121.8	1075.0	1071.3	1133.5	1273.3
35°	1380.1	1386.7	1375.0	1369.2	1339.2	1296.0	1248.4	1221.3	1230.9	1310.6	1439.4
37.5°	1478.9	1485.5	1472.3	1470.9	1461.4	1424.0	1391.1	1393.3	1402.8	1511.1	1614.3
40°	1621.6	1628.9	1595.3	1580.6	1580.6	1544.1	1533.1	1585.0	1597.5	1708.7	1796.5
42.5°	1742.4	1754.1	1734.3	1724.8	1696.3	1670.7	1683.8	1757.0	1778.2	1897.5	1955.3
45°	1800.9	1809.7	1833.1	1860.9	1833.1	1788.5	1838.2	1920.9	1950.9	2071.7	2114.1
47.5°	1832.4	1840.4	1867.5	1942.1	1961.2	1923.9	1994.1	2097.3	2117.8	2244.4	2265.6
50°	1836.8	1862.4	1897.5	1972.2	2059.2	2064.4	2150.7	2276.6	2300.7	2414.1	2398.8
52.5°	1800.9	1811.2	1883.6	2009.5	2106.1	2193.9	2321.2	2448.5	2466.1	2573.7	2516.6
55°	1742.4	1757.0	1829.5	2000.7	2151.4	2316.8	2494.6	2617.6	2637.3	2728.8	2625.6
57.5°	1689.7	1697.0	1774.6	1975.1	2196.8	2439.8	2649.1	2793.9	2807.1	2864.9	2706.1
60°	1631.1	1639.2	1716.8	1920.2	2230.5	2532.7	2810.0	2971.8	2983.5	3008.4	2799.8
62.5°	1479.7	1500.9	1598.2	1829.5	2221.7	2638.8	2982.0	3147.4	3162.0	3135.0	2873.7
65°	1201.6	1231.6	1350.9	1623.8	2139.7	2707.6	3122.5	3309.1	3334.0	3230.1	2893.5
67.5°	933.0	954.2	1050.1	1288.7	1852.1	2673.2	3213.3	3420.3	3427.7	3214.7	2783.7
68°	884.7	905.9	997.4	1218.4	1772.4	2632.2	3211.1	3423.3	3439.4	3197.9	2741.3
70°	676.9	701.0	788.1	965.2	1428.4	2371.7	3077.1	3353.0	3350.8	2994.5	2477.8
72.5°	423.0	436.9	496.9	608.8	944.7	1804.6	2611.7	2957.1	2963.0	2441.2	1900.4
75°	268.6	268.6	265.6	294.9	484.4	1028.2	1941.4	2276.6	2281.0	1709.4	1197.9
77.5°	233.4	226.9	195.4	165.4	193.2	399.6	1148.9	1470.2	1446.0	920.6	568.6
80°	196.8	185.9	160.3	133.2	124.4	125.1	441.3	746.4	714.2	331.5	188.8
82.5°	142.0	132.5	120.7	104.6	95.9	74.6	92.2	215.9	210.8	95.9	61.5
85°	76.8	69.5	68.1	68.8	57.8	46.1	38.8	47.6	47.6	41.7	35.1
87.5°	27.1	19.8	23.4	26.3	22.7	19.0	15.4	18.3	19.0	18.3	16.8
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°	725.2	725.2	725.2	725.2	725.2	725.2	725.2	725.2	725.2	725.2	725.2
2.5°	728.1	735.4	753.0	768.4	779.3	788.9	794.0	796.2	801.3	802.0	800.6
5°	734.0	753.0	779.3	802.0	814.5	819.6	821.1	821.8	819.6	821.1	819.6
7.5°	749.3	773.5	810.8	830.6	832.8	824.7	825.5	822.5	825.5	828.4	828.4
10°	772.8	803.5	838.6	845.9	836.4	832.0	840.8	858.4	864.2	872.3	872.3
12.5°	803.5	840.1	865.0	858.4	849.6	864.2	889.8	907.4	913.3	916.2	914.0
15°	838.6	878.1	890.6	868.6	884.7	916.2	925.0	914.7	900.1	893.5	897.2
17.5°	883.3	916.2	908.9	894.2	930.8	935.2	906.7	873.7	850.3	841.5	847.4
20°	930.1	958.6	925.0	931.6	954.2	907.4	853.3	810.8	790.3	786.7	792.5
22.5°	979.9	998.2	941.1	974.7	941.1	845.9	780.8	758.9	753.7	759.6	764.7
25°	1036.2	1034.0	968.9	987.9	892.0	770.6	731.8	730.3	730.3	734.0	741.3
27.5°	1099.9	1065.5	996.7	970.3	807.2	708.4	701.0	701.8	699.6	700.3	704.0
30°	1173.8	1107.9	1027.4	912.5	712.0	661.5	658.6	656.4	651.3	649.8	651.3
32.5°	1266.7	1152.6	1058.9	817.4	628.6	613.2	611.8	600.1	587.6	586.2	591.3
35°	1384.5	1233.8	1075.0	698.1	559.8	559.1	554.0	535.7	519.6	519.6	515.9
37.5°	1519.2	1338.4	1081.6	581.8	502.7	506.4	491.8	468.3	455.9	448.6	450.8
40°	1656.8	1457.7	1080.8	480.0	453.0	453.7	442.7	414.2	383.5	365.2	369.5
42.5°	1789.2	1566.0	1061.8	425.9	412.7	410.5	401.7	363.0	337.4	322.7	323.4
45°	1895.3	1678.0	1032.5	393.7	376.1	379.8	360.0	336.6	313.2	300.0	299.3
47.5°	2001.4	1762.9	985.7	373.9	349.1	342.5	334.4	318.3	300.8	286.1	286.9
50°	2098.0	1835.3	941.8	360.8	324.2	307.3	308.8	299.3	283.9	270.8	270.0
52.5°	2166.1	1882.9	917.7	353.5	294.2	275.9	281.0	275.9	261.2	251.7	251.0
55°	2234.1	1919.5	925.7	343.9	261.2	246.6	255.4	253.9	245.9	243.0	243.7
57.5°	2289.0	1947.3	954.2	326.4	229.8	221.0	235.6	231.2	225.4	226.1	226.1
60°	2342.4	1983.1	987.9	286.1	202.7	203.4	217.3	209.3	205.6	212.2	212.9
62.5°	2398.0	2021.9	960.1	227.6	179.3	184.4	200.5	193.9	195.4	204.9	207.8
65°	2391.5	2018.3	782.3	186.6	158.8	169.0	193.2	191.0	191.7	195.4	196.8
67.5°	2256.8	1889.5	537.9	158.8	144.2	156.6	187.3	178.6	179.3	177.1	177.8
68°	2211.4	1844.1	474.2	154.4	141.2	153.7	184.4	176.4	177.1	174.9	174.2
70°	1964.1	1579.2	300.0	136.1	131.0	145.6	169.8	166.8	166.1	164.7	164.7
72.5°	1497.2	1165.7	158.1	117.8	119.3	133.2	151.5	157.3	153.7	154.4	158.8
75°	991.6	701.0	109.8	101.0	104.6	114.2	134.6	146.4	142.7	144.9	142.7
77.5°	524.7	377.6	87.8	85.6	85.6	92.2	111.2	129.5	129.5	128.1	125.9
80°	172.0	133.2	70.3	67.3	68.8	72.4	89.3	106.1	108.3	105.4	103.9
82.5°	57.8	61.5	52.7	49.0	50.5	53.4	67.3	81.2	82.0	76.1	74.6
85°	35.9	41.0	32.9	32.2	32.2	32.9	41.0	44.6	41.0	36.6	38.1
87.5°	16.8	20.5	15.4	13.2	11.0	9.5	7.3	2.9	2.9	1.5	1.5
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)