

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: P836546

Luminaire Tested: **ARCH3-40-730-U-T4W-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836546
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-40-730-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 345mA LIGHTSQUARE WITH 40 LEDS AND TYPE IV WIDE OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

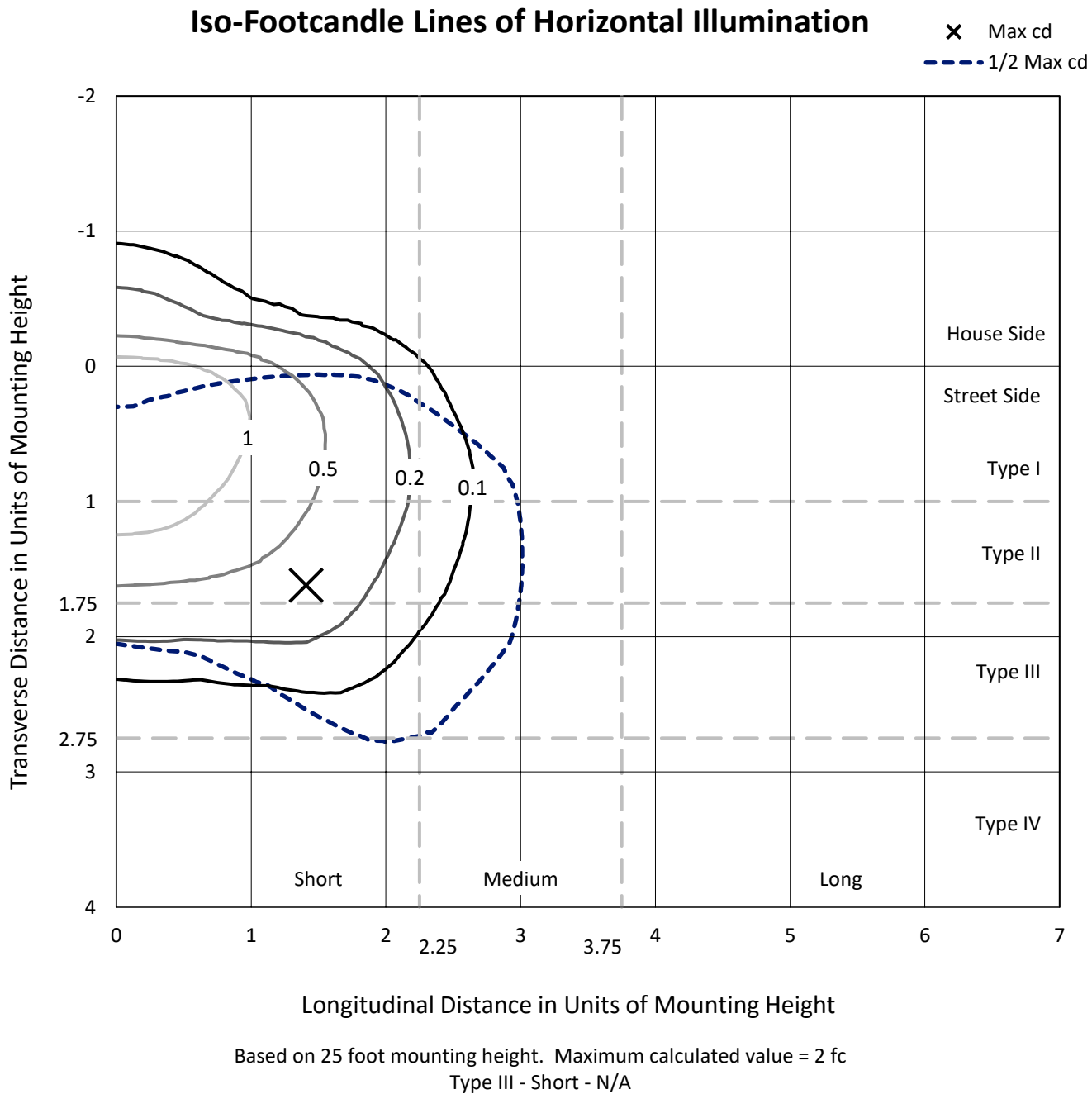
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4953 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

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

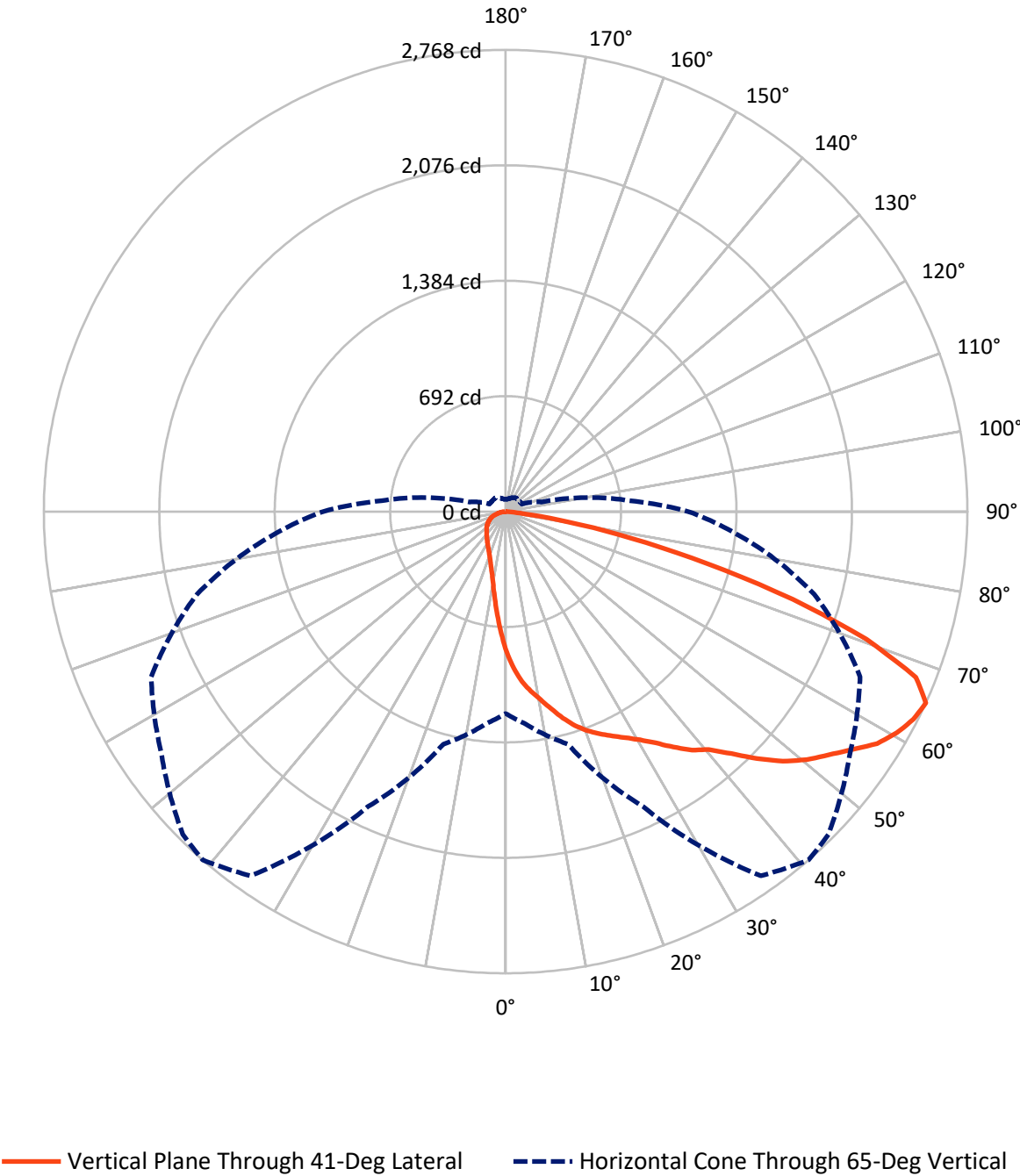


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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	635.9	0.0	635.9
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	4317.1	0.0	4317.1
	% Fixture	87.2	0.0	87.2
Total	Lumens	4953.0	0.0	4953.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.6	1.6
10°-20°	235.8	4.8
20°-30°	405.7	8.2
30°-40°	615.2	12.4
40°-50°	901.3	18.2
50°-60°	1138.2	23.0
60°-70°	1067.3	21.5
70°-80°	475.7	9.6
80°-90°	35.2	0.7
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°	4953.0	100.0
0°-180°	4953.0	100.0

Coefficient of Utilization



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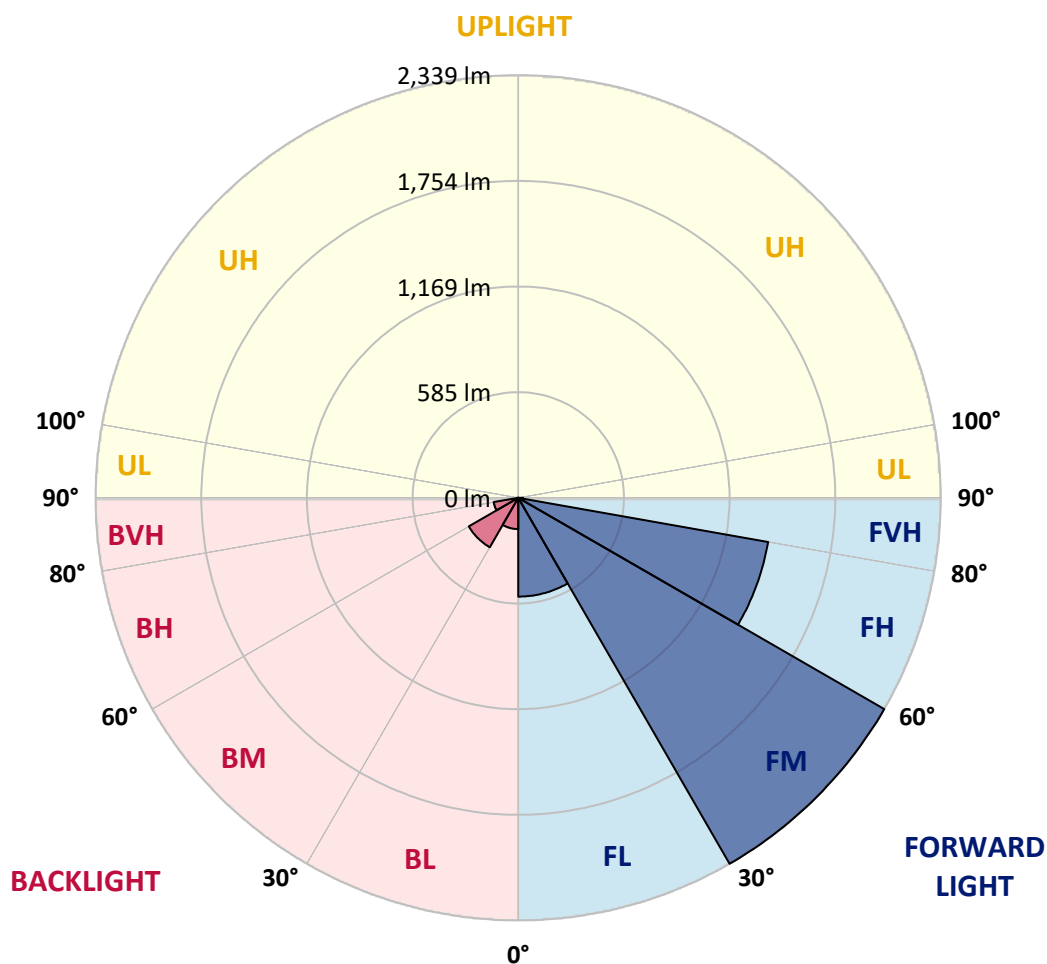
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	547.0	11.0			
FM	(30°-60°)	2339.0	47.2			
FH	(60°-80°)	1404.8	28.4			G1/1800
FVH	(80°-90°)	26.3	0.5			G1/100
BL	(0°-30°)	173.1	3.5	B1/500		
BM	(30°-60°)	315.8	6.4	B1/1000		
BH	(60°-80°)	138.1	2.8	B1/500		G1/500
BVH	(80°-90°)	8.9	0.2			G0/10
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°	41°	45°	55°	65°	75°	85°
0°	844.0	844.0	844.0	844.0	844.0	844.0	844.0	844.0	844.0	844.0	844.0
2.5°	973.5	970.4	968.3	956.8	956.8	941.1	942.1	927.5	909.8	881.6	851.3
5°	1065.4	1061.2	1056.0	1044.5	1040.3	1024.7	1022.6	1001.7	971.4	922.3	868.0
7.5°	1145.8	1141.7	1134.3	1117.6	1106.1	1087.3	1082.1	1055.0	1021.5	961.0	884.7
10°	1218.9	1215.8	1206.4	1185.5	1169.9	1146.9	1137.5	1100.9	1059.1	992.3	898.3
12.5°	1293.1	1288.9	1276.4	1258.6	1239.8	1212.7	1201.2	1154.2	1100.9	1026.8	918.1
15°	1362.0	1355.8	1346.4	1327.6	1310.9	1284.7	1272.2	1216.9	1152.1	1065.4	944.2
17.5°	1407.0	1401.7	1393.4	1382.9	1369.4	1349.5	1337.0	1282.7	1203.3	1103.0	971.4
20°	1434.1	1432.0	1428.9	1422.6	1416.4	1402.8	1393.4	1342.2	1258.6	1139.6	997.5
22.5°	1455.0	1452.9	1451.9	1451.9	1452.9	1447.7	1441.4	1397.6	1311.9	1178.2	1021.5
25°	1487.4	1486.3	1484.3	1482.2	1489.5	1490.5	1488.4	1458.1	1378.8	1229.4	1051.8
27.5°	1532.3	1529.2	1525.0	1522.9	1530.2	1535.4	1539.6	1518.7	1449.8	1281.6	1086.3
30°	1601.2	1591.8	1581.4	1574.1	1579.3	1587.7	1597.1	1584.5	1522.9	1346.4	1121.8
32.5°	1682.7	1671.2	1647.2	1633.6	1647.2	1653.5	1660.8	1654.5	1599.1	1416.4	1157.3
35°	1781.9	1768.4	1743.3	1723.4	1747.5	1733.9	1730.8	1724.5	1671.2	1485.3	1197.0
37.5°	1947.0	1927.1	1887.4	1843.6	1843.6	1814.3	1802.8	1784.0	1736.0	1546.9	1235.7
40°	2138.1	2112.0	2060.8	1996.1	1936.5	1875.9	1868.6	1855.1	1812.2	1617.9	1279.5
42.5°	2348.1	2297.9	2226.9	2148.6	2052.5	1983.5	1966.8	1928.2	1886.4	1690.0	1323.4
45°	2581.0	2476.5	2373.1	2333.4	2174.7	2112.0	2080.7	2010.7	1963.7	1765.2	1369.4
47.5°	2618.6	2537.1	2468.2	2461.9	2288.5	2236.3	2200.8	2100.5	2047.2	1845.7	1417.4
50°	2597.7	2548.6	2555.9	2530.9	2372.1	2337.6	2310.5	2196.6	2129.8	1922.9	1461.3
52.5°	2510.0	2537.1	2578.9	2532.9	2451.5	2423.3	2409.7	2300.0	2207.1	1994.0	1501.0
55°	2405.5	2424.3	2514.1	2570.5	2543.4	2518.3	2505.8	2420.1	2283.3	2053.5	1537.5
57.5°	2253.0	2244.7	2343.9	2564.3	2639.5	2624.9	2611.3	2538.2	2354.3	2096.3	1560.5
60°	2024.3	2006.5	2131.8	2438.9	2670.8	2693.8	2687.5	2616.5	2408.6	2095.3	1551.1
62.5°	1628.4	1672.3	1845.7	2234.2	2684.4	2742.9	2731.4	2622.8	2426.4	2034.7	1491.6
65°	1210.6	1273.3	1443.5	1952.2	2665.6	2768.0	2736.6	2520.4	2343.9	1914.6	1361.0
67.5°	872.2	927.5	1051.8	1606.5	2484.9	2653.1	2616.5	2353.3	2153.8	1744.3	1180.3
70°	596.4	636.1	720.7	1169.9	2121.4	2293.7	2270.8	2103.6	1854.0	1541.7	958.9
72.5°	420.9	437.7	492.0	771.9	1611.7	1799.7	1772.5	1730.8	1489.5	1281.6	745.8
75°	315.4	325.9	355.1	499.3	1087.3	1247.1	1222.1	1246.1	1112.4	970.4	543.1
77.5°	119.1	129.5	201.6	318.6	643.4	765.6	740.6	755.2	618.4	489.9	270.5
80°	32.4	34.5	66.8	151.5	292.5	381.2	346.8	297.7	229.8	225.6	143.1
82.5°	13.6	15.7	30.3	81.5	104.5	104.5	87.7	108.6	87.7	105.5	68.9
85°	5.2	6.3	7.3	20.9	13.6	14.6	15.7	20.9	17.8	21.9	15.7
87.5°	0.0	0.0	0.0	1.0	1.0	2.1	1.0	2.1	3.1	3.1	3.1
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°	844.0	844.0	844.0	844.0	844.0	844.0	844.0	844.0	844.0	844.0	844.0
2.5°	838.7	827.3	810.5	783.4	755.2	739.5	719.7	716.5	695.6	693.6	685.2
5°	844.0	819.9	777.1	724.9	673.7	634.0	604.8	589.1	558.8	558.8	550.5
7.5°	848.1	810.5	741.6	664.3	594.3	541.1	501.4	484.7	457.5	455.4	449.1
10°	849.2	799.1	703.0	602.7	517.0	462.7	424.1	405.3	381.2	379.2	375.0
12.5°	857.5	792.8	668.5	549.4	461.7	403.2	365.6	349.9	331.1	329.0	324.8
15°	871.1	792.8	639.2	504.5	412.6	358.3	325.9	311.3	297.7	295.6	293.5
17.5°	884.7	790.7	610.0	462.7	371.8	322.8	294.6	283.1	272.6	271.6	269.5
20°	897.2	789.7	580.7	427.2	340.5	293.5	271.6	261.1	252.8	252.8	251.7
22.5°	909.8	787.6	552.5	393.8	313.4	271.6	252.8	241.3	235.0	235.0	234.0
25°	928.6	787.6	526.4	365.6	291.4	254.9	236.1	227.7	222.5	221.4	221.4
27.5°	950.5	793.8	503.5	340.5	272.6	238.1	223.5	215.2	208.9	206.8	207.9
30°	974.5	799.1	482.6	318.6	254.9	225.6	209.9	201.6	195.3	193.2	194.3
32.5°	998.6	805.3	463.8	298.7	237.1	214.1	198.5	189.1	182.8	181.7	181.7
35°	1024.7	811.6	445.0	282.0	222.5	202.6	188.0	177.6	173.4	171.3	172.3
37.5°	1050.8	822.0	427.2	266.4	212.0	192.2	178.6	168.2	165.0	164.0	164.0
40°	1082.1	837.7	419.9	255.9	202.6	182.8	171.3	160.9	157.7	157.7	157.7
42.5°	1108.2	850.2	413.6	244.4	195.3	174.4	164.0	155.6	153.5	152.5	153.5
45°	1134.3	861.7	405.3	234.0	185.9	166.1	157.7	149.4	147.3	147.3	147.3
47.5°	1160.5	868.0	393.8	223.5	177.6	158.8	151.5	144.1	142.1	142.1	142.1
50°	1181.3	873.2	377.1	212.0	168.2	152.5	145.2	137.9	135.8	135.8	135.8
52.5°	1202.2	874.3	359.3	198.5	158.8	145.2	138.9	131.6	129.5	128.5	128.5
55°	1221.0	873.2	338.4	182.8	148.3	136.8	131.6	125.3	121.2	117.0	119.1
57.5°	1234.6	872.2	314.4	167.1	137.9	128.5	126.4	118.0	109.7	99.2	101.3
60°	1229.4	860.7	288.3	147.3	126.4	120.1	120.1	108.6	94.0	88.8	89.8
62.5°	1196.0	828.3	261.1	126.4	114.9	111.8	110.7	98.2	86.7	81.5	82.5
65°	1095.7	746.8	221.4	107.6	103.4	102.4	102.4	90.9	80.4	74.2	75.2
67.5°	943.2	626.7	180.7	90.9	91.9	94.0	94.0	83.6	73.1	66.8	67.9
70°	756.2	489.9	144.1	78.3	79.4	82.5	84.6	75.2	65.8	59.5	59.5
72.5°	569.3	371.8	115.9	65.8	71.0	71.0	74.2	66.8	57.4	51.2	52.2
75°	412.6	266.4	91.9	55.4	61.6	60.6	60.6	56.4	49.1	44.9	44.9
77.5°	195.3	140.0	73.1	39.7	48.0	47.0	48.0	44.9	41.8	37.6	38.6
80°	96.1	68.9	47.0	28.2	33.4	34.5	37.6	35.5	34.5	31.3	31.3
82.5°	46.0	27.2	21.9	19.8	23.0	24.0	26.1	26.1	27.2	25.1	25.1
85°	12.5	7.3	9.4	12.5	14.6	15.7	17.8	18.8	18.8	17.8	18.8
87.5°	3.1	3.1	4.2	6.3	7.3	8.4	9.4	9.4	4.2	0.0	0.0
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)