

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: P836569

Luminaire Tested: **ARCH3-40-750-U-T2U-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836569
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-40-750-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 345mA LIGHTSQUARE WITH 40 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5249 lumens
Efficiency: N/A
Efficacy: 120.4 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - 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



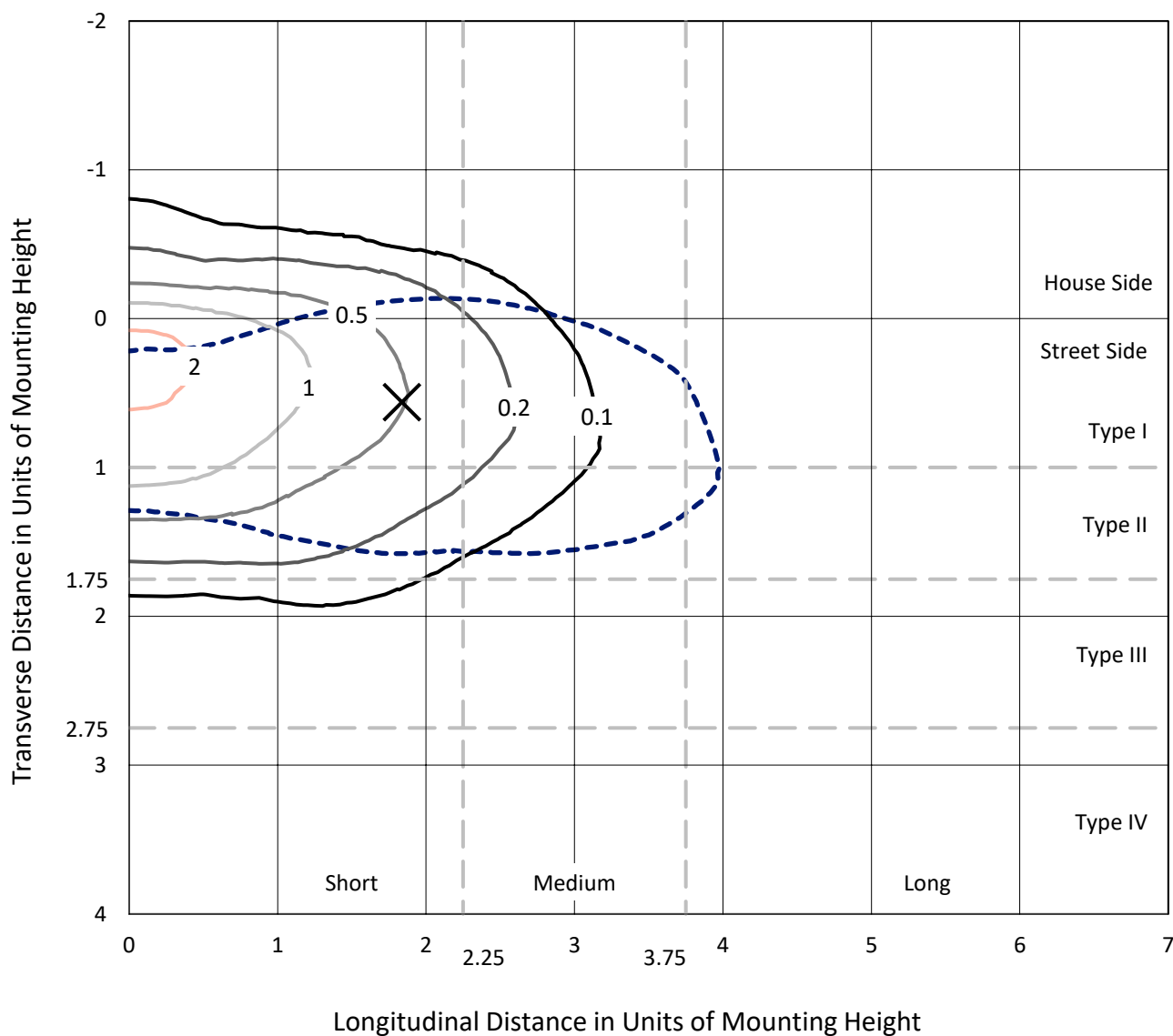
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

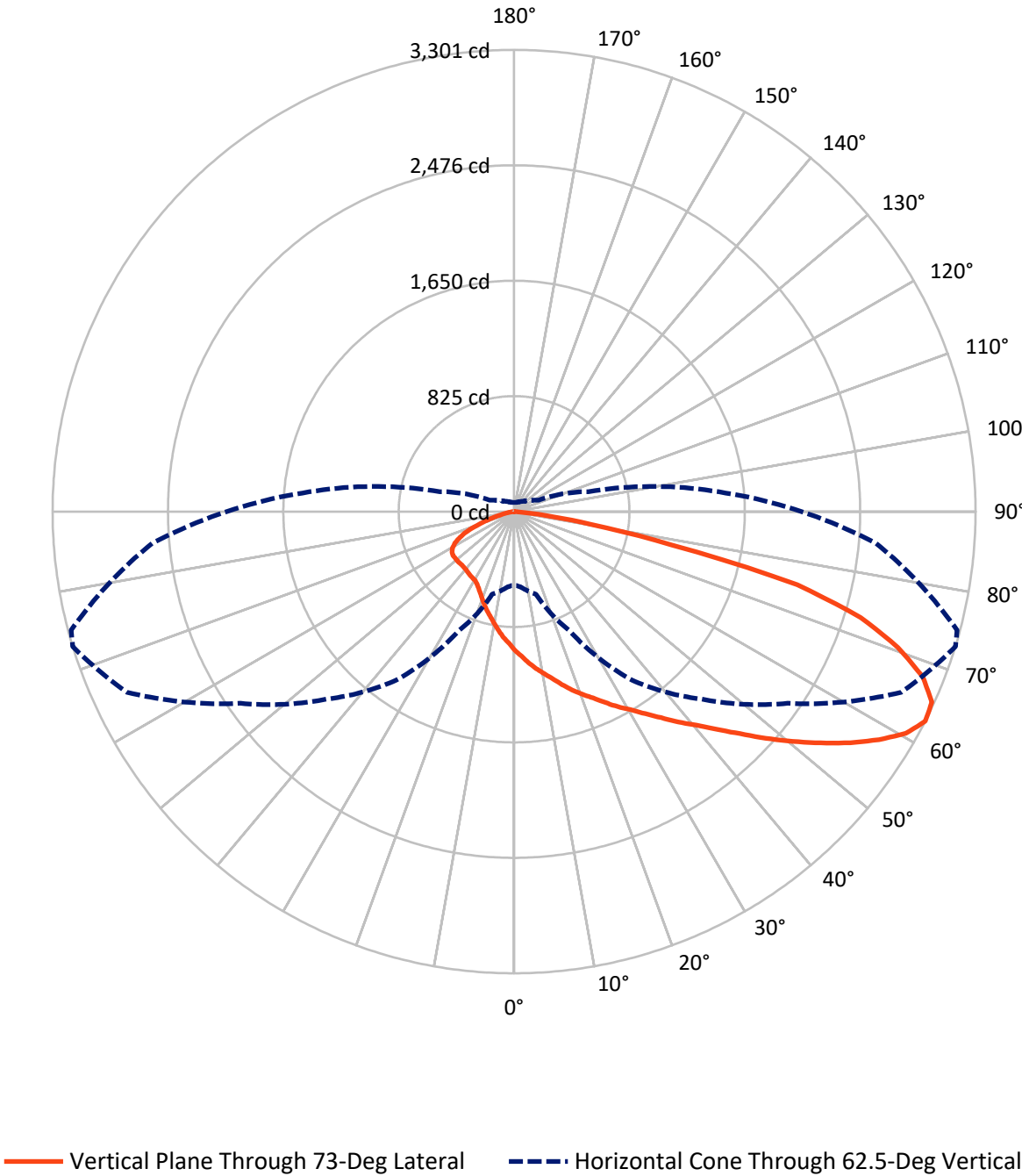


Based on 25 foot mounting height. Maximum calculated value = 2.5 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	813.7	0.0	813.7
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	4435.3	0.0	4435.3
	% Fixture	84.5	0.0	84.5
Total	Lumens	5249.0	0.0	5249.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.0	1.8
10°-20°	289.7	5.5
20°-30°	482.3	9.2
30°-40°	727.7	13.9
40°-50°	1017.1	19.4
50°-60°	1123.5	21.4
60°-70°	978.7	18.6
70°-80°	494.4	9.4
80°-90°	39.7	0.8
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°	5249.0	100.0
0°-180°	5249.0	100.0

Coefficient of Utilization



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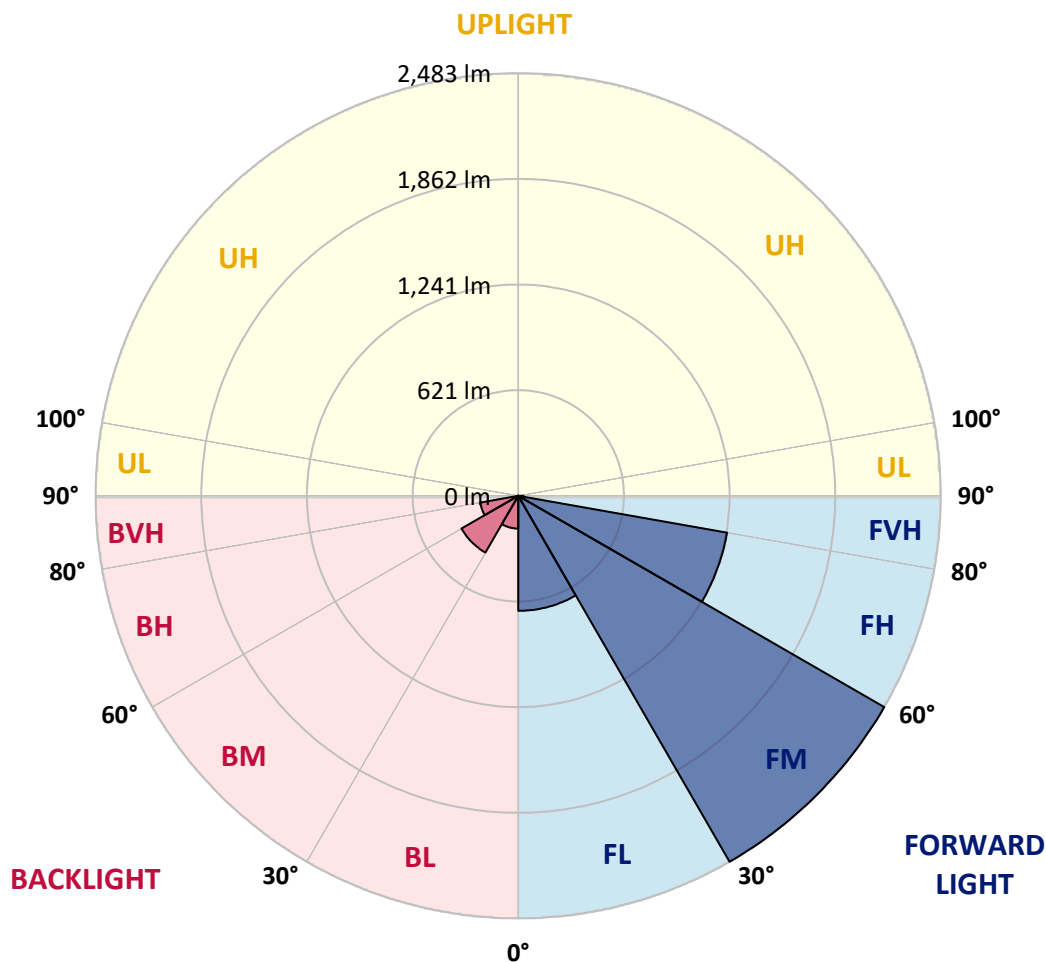
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	675.7	12.9			
FM	(30°-60°)	2483.0	47.3			
FH	(60°-80°)	1245.9	23.7			G1/1800
FVH	(80°-90°)	30.7	0.6			G1/100
BL	(0°-30°)	192.3	3.7	B1/500		
BM	(30°-60°)	385.3	7.3	B1/1000		
BH	(60°-80°)	227.1	4.3	B1/500		G1/500
BVH	(80°-90°)	9.0	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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	993.9	993.9	993.9	993.9	993.9	993.9	993.9	993.9	993.9	993.9	993.9
2.5°	1131.2	1143.7	1136.9	1141.5	1118.6	1103.7	1086.6	1053.4	1035.1	1032.8	1011.1
5°	1297.0	1310.7	1299.3	1295.9	1255.8	1221.5	1182.6	1124.3	1085.4	1078.5	1030.5
7.5°	1462.8	1475.4	1461.7	1451.4	1397.6	1337.0	1279.8	1194.1	1133.4	1122.0	1046.5
10°	1579.5	1590.9	1580.6	1570.4	1514.3	1452.5	1371.3	1259.3	1176.9	1158.6	1056.8
12.5°	1667.6	1674.4	1669.9	1660.7	1608.1	1541.8	1464.0	1332.5	1226.1	1203.2	1072.8
15°	1739.6	1751.1	1745.3	1738.5	1688.2	1621.8	1547.5	1409.1	1283.3	1254.7	1096.8
17.5°	1787.7	1795.7	1796.8	1796.8	1752.2	1687.0	1615.0	1478.9	1340.5	1303.9	1119.7
20°	1809.4	1818.5	1824.3	1833.4	1796.8	1740.8	1667.6	1538.3	1394.2	1353.0	1141.5
22.5°	1819.7	1827.7	1842.6	1863.2	1833.4	1786.5	1719.0	1593.2	1448.0	1404.5	1166.6
25°	1827.7	1838.0	1859.7	1898.6	1878.0	1838.0	1779.7	1656.1	1512.0	1467.4	1203.2
27.5°	1849.4	1862.0	1882.6	1929.5	1904.3	1884.9	1843.7	1723.6	1579.5	1533.8	1247.8
30°	1924.9	1935.2	1934.1	1963.8	1932.9	1927.2	1898.6	1788.8	1644.7	1598.9	1300.4
32.5°	2062.2	2072.5	2047.3	2035.9	1968.4	1969.5	1958.1	1858.6	1722.5	1675.6	1361.0
35°	2209.7	2221.1	2188.0	2168.5	2055.3	2022.1	2027.8	1945.5	1809.4	1762.5	1436.5
37.5°	2341.2	2355.0	2326.4	2297.8	2183.4	2106.8	2105.6	2042.7	1908.9	1860.9	1520.0
40°	2413.3	2429.3	2446.5	2430.4	2310.4	2225.7	2189.1	2142.2	2007.3	1958.1	1610.4
42.5°	2447.6	2492.2	2523.1	2512.8	2414.4	2328.7	2285.2	2246.3	2127.4	2079.3	1717.9
45°	2351.5	2352.7	2417.9	2473.9	2455.6	2398.4	2390.4	2363.0	2264.6	2218.9	1839.1
47.5°	2231.4	2222.3	2268.0	2367.5	2419.0	2433.9	2480.8	2492.2	2421.3	2375.5	1962.7
50°	1943.2	1948.9	2097.6	2240.6	2341.2	2437.3	2544.8	2624.9	2582.6	2539.1	2093.0
52.5°	1580.6	1594.4	1764.8	2079.3	2238.3	2403.0	2582.6	2757.6	2747.3	2706.1	2223.4
55°	1267.3	1289.0	1469.7	1810.5	2106.8	2326.4	2598.6	2878.8	2917.7	2879.9	2351.5
57.5°	968.7	991.6	1143.7	1493.7	1938.6	2201.7	2587.1	2985.2	3076.7	3052.6	2469.3
60°	729.7	752.6	849.8	1211.2	1728.2	2062.2	2530.0	3054.9	3219.6	3194.5	2555.1
62.5°	522.7	541.0	613.0	942.4	1472.0	1896.3	2389.3	3056.1	3300.8	3280.2	2596.3
65°	376.3	376.3	434.6	672.5	1231.8	1697.3	2176.5	2915.4	3283.7	3278.0	2567.7
67.5°	271.1	273.4	320.2	470.1	982.5	1456.0	1900.9	2664.9	3151.0	3179.6	2464.8
70°	192.1	197.9	219.6	328.3	742.3	1149.5	1605.8	2336.7	2912.0	2962.3	2265.7
72.5°	148.7	152.1	167.0	228.7	542.1	854.4	1279.8	1970.7	2592.9	2650.0	1994.7
75°	114.4	117.8	129.2	168.1	388.9	599.3	909.3	1529.2	2090.8	2192.5	1602.4
77.5°	83.5	88.1	96.1	122.4	226.5	380.9	551.3	860.1	1154.0	1202.1	839.5
80°	38.9	44.6	56.0	78.9	122.4	179.6	195.6	331.7	554.7	579.9	455.2
82.5°	21.7	27.4	32.0	48.0	61.8	64.0	66.3	83.5	209.3	231.0	191.0
85°	10.3	13.7	14.9	20.6	20.6	18.3	21.7	16.0	34.3	41.2	40.0
87.5°	0.0	1.1	2.3	5.7	4.6	3.4	3.4	3.4	3.4	4.6	3.4
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°	993.9	993.9	993.9	993.9	993.9	993.9	993.9	993.9	993.9	993.9	993.9
2.5°	1000.8	985.9	951.6	921.9	902.4	885.3	862.4	852.1	833.8	837.2	826.9
5°	1006.5	979.0	918.4	862.4	821.2	784.6	744.6	721.7	696.5	694.2	686.2
7.5°	1009.9	967.6	880.7	801.8	738.9	682.8	629.1	599.3	568.4	561.6	554.7
10°	1006.5	950.4	841.8	738.9	655.4	585.6	525.0	487.2	455.2	447.2	440.3
12.5°	1009.9	941.3	805.2	680.5	581.0	502.1	433.5	394.6	364.9	356.8	352.3
15°	1017.9	935.6	774.3	627.9	514.7	426.6	359.1	326.0	301.9	293.9	291.7
17.5°	1024.8	929.9	741.1	576.4	448.3	360.3	301.9	274.5	253.9	245.9	243.6
20°	1033.9	921.9	708.0	527.3	390.0	307.7	256.2	232.2	216.2	210.4	209.3
22.5°	1041.9	916.1	677.1	478.1	336.3	265.3	221.9	202.4	191.0	185.3	185.3
25°	1062.5	918.4	650.8	432.3	296.2	232.2	195.6	180.7	171.6	168.1	168.1
27.5°	1086.6	927.6	630.2	393.4	261.9	207.0	177.3	164.7	160.1	155.5	156.7
30°	1120.9	945.9	616.5	361.4	236.8	187.6	162.4	153.3	148.7	147.5	147.5
32.5°	1164.3	975.6	615.3	340.8	218.5	172.7	152.1	144.1	141.8	140.7	140.7
35°	1215.8	1001.9	608.5	331.7	207.0	162.4	144.1	138.4	137.2	137.2	137.2
37.5°	1277.6	1045.4	603.9	319.1	201.3	156.7	138.4	133.8	133.8	133.8	133.8
40°	1341.6	1080.8	597.0	307.7	199.0	153.3	135.0	129.2	129.2	129.2	129.2
42.5°	1418.2	1132.3	594.7	301.9	195.6	151.0	130.4	123.5	124.7	124.7	125.8
45°	1510.9	1190.6	593.6	296.2	194.4	148.7	125.8	117.8	118.9	117.8	117.8
47.5°	1604.7	1258.1	597.0	292.8	193.3	146.4	122.4	112.1	112.1	110.9	110.9
50°	1703.0	1319.9	599.3	289.4	191.0	141.8	116.7	107.5	105.2	102.9	104.1
52.5°	1795.7	1377.1	600.5	283.6	184.1	135.0	112.1	101.8	98.4	94.9	96.1
55°	1888.3	1432.0	602.8	276.8	175.0	128.1	106.4	96.1	91.5	86.9	86.9
57.5°	1971.8	1480.0	597.0	259.6	164.7	121.2	100.6	89.2	82.3	77.8	77.8
60°	2029.0	1514.3	579.9	234.5	151.0	113.2	94.9	82.3	74.3	70.9	70.9
62.5°	2056.4	1520.0	549.0	193.3	133.8	105.2	88.1	75.5	68.6	66.3	66.3
65°	2030.1	1494.9	501.0	145.3	115.5	96.1	81.2	69.8	62.9	57.2	57.2
67.5°	1938.6	1424.0	434.6	109.8	98.4	86.9	74.3	64.0	56.0	51.5	51.5
70°	1754.5	1276.4	336.3	88.1	83.5	75.5	67.5	57.2	50.3	44.6	44.6
72.5°	1513.2	1082.0	236.8	70.9	70.9	64.0	57.2	50.3	43.5	38.9	38.9
75°	1160.9	800.6	159.0	57.2	58.3	53.8	46.9	41.2	36.6	33.2	33.2
77.5°	633.6	395.7	97.2	42.3	43.5	41.2	36.6	33.2	30.9	27.4	27.4
80°	307.7	173.8	56.0	29.7	30.9	29.7	27.4	24.0	24.0	21.7	21.7
82.5°	129.2	65.2	29.7	20.6	20.6	18.3	17.2	17.2	17.2	16.0	16.0
85°	32.0	12.6	12.6	11.4	11.4	11.4	10.3	10.3	10.3	8.0	9.1
87.5°	4.6	4.6	4.6	4.6	4.6	4.6	3.4	1.1	0.0	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)