

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: P836526

Luminaire Tested: **ARCH3-40-722-U-T3-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836526
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-40-722-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 345mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4380 lumens
Efficiency: N/A
Efficacy: 100.5 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

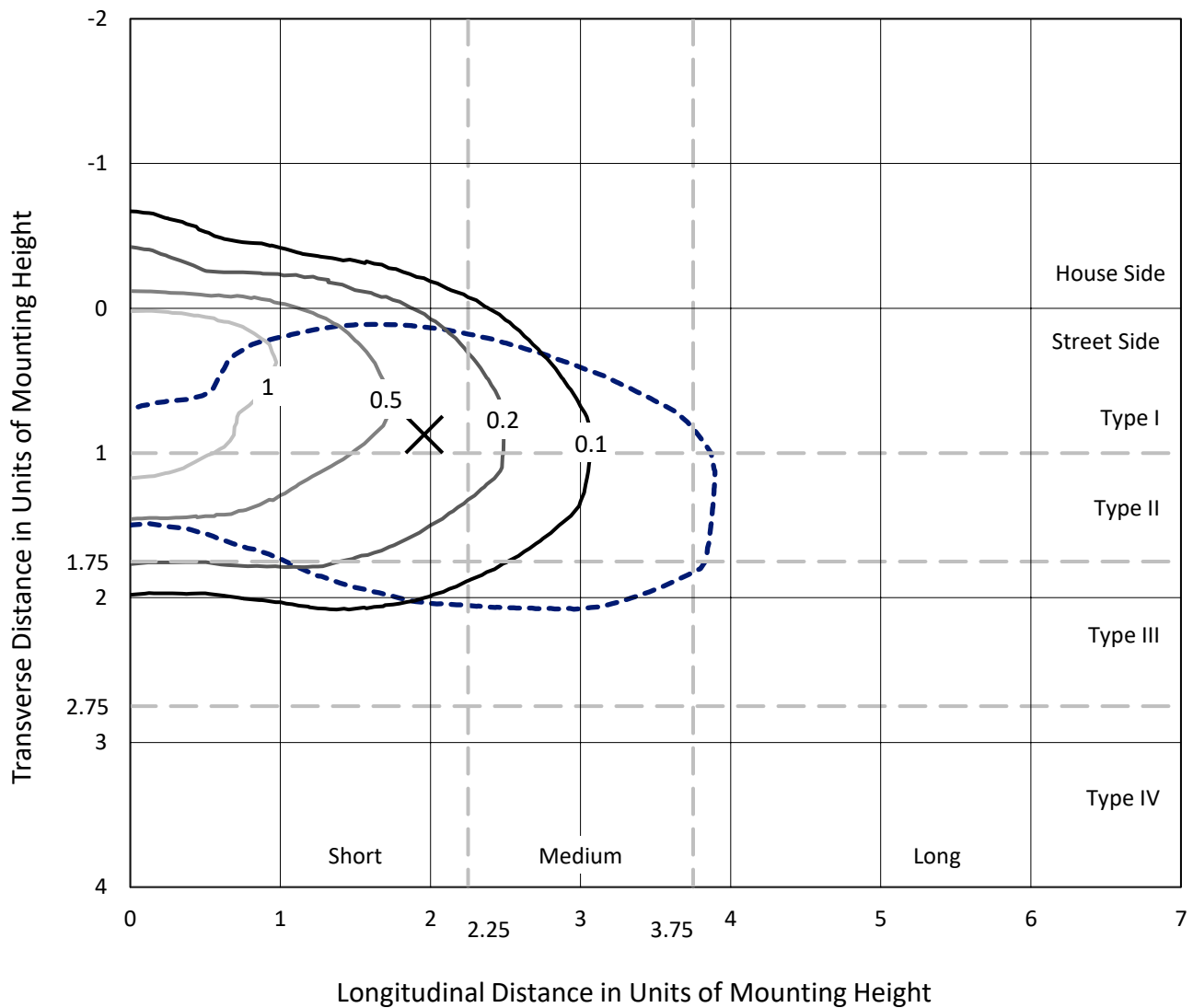


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

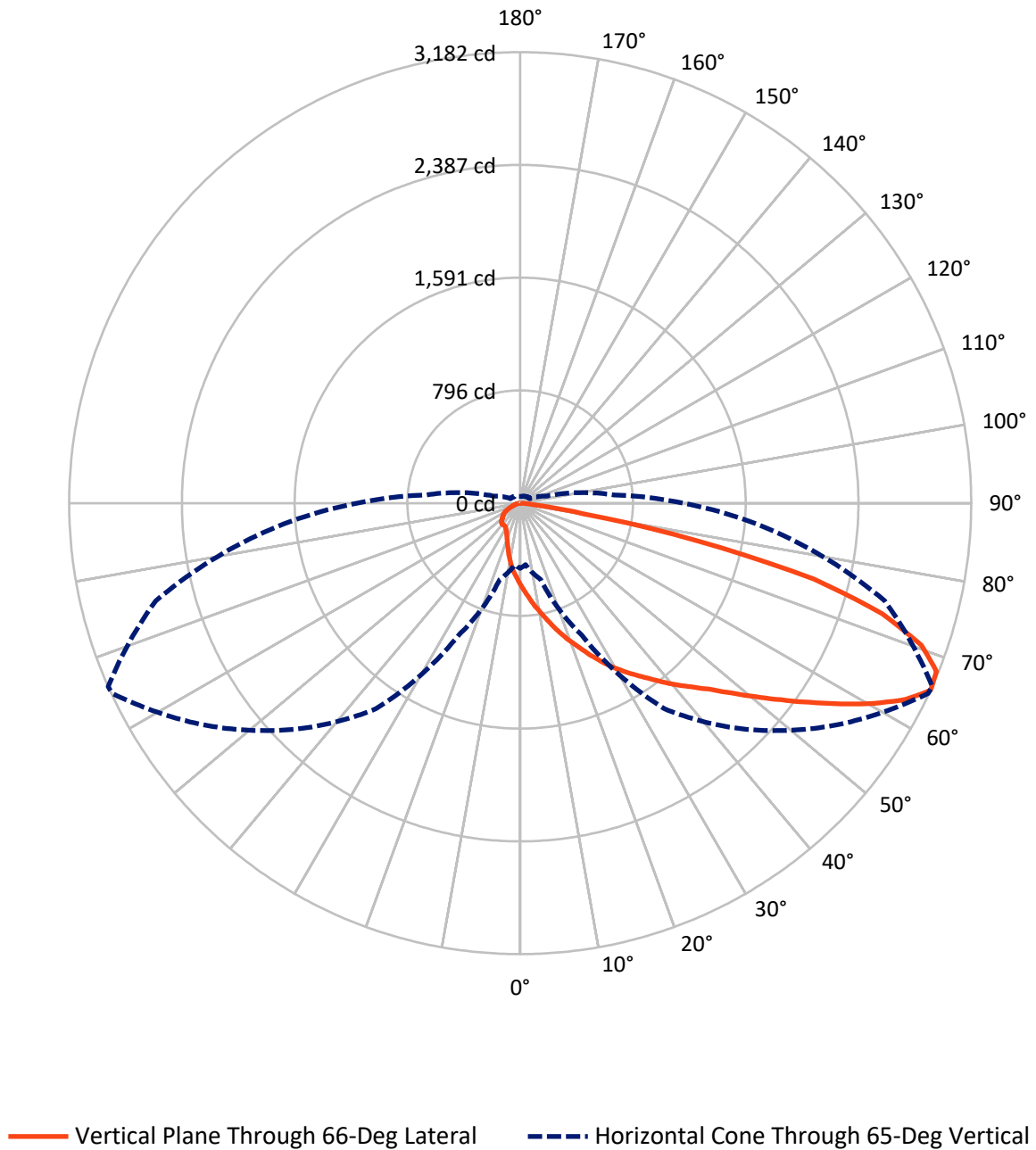


Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	463.3	0.0	463.3
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	3916.7	0.0	3916.7
	% Fixture	89.4	0.0	89.4
Total	Lumens	4380.0	0.0	4380.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.2	1.3
10°-20°	186.5	4.3
20°-30°	337.4	7.7
30°-40°	527.6	12.0
40°-50°	800.4	18.3
50°-60°	1016.9	23.2
60°-70°	950.2	21.7
70°-80°	472.2	10.8
80°-90°	31.7	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°	4380.0	100.0
0°-180°	4380.0	100.0

Coefficient of Utilization



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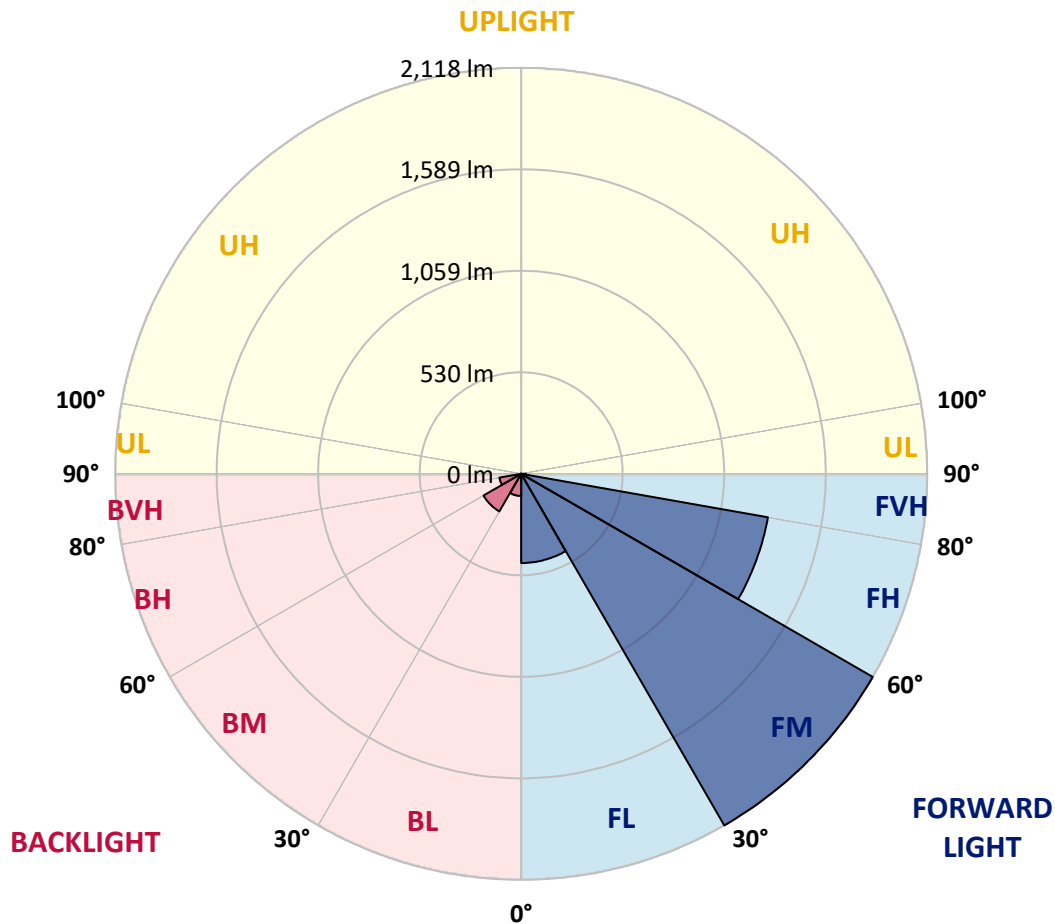
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	465.4	10.6			
FM	(30°-60°)	2118.2	48.4			
FH	(60°-80°)	1307.0	29.8			G1/1800
FVH	(80°-90°)	26.1	0.6			G1/100
BL	(0°-30°)	115.7	2.6	B1/500		
BM	(30°-60°)	226.6	5.2	B1/1000		
BH	(60°-80°)	115.4	2.6	B1/500		G1/500
BVH	(80°-90°)	5.6	0.1			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°	45°	55°	65°	66°	75°	85°
0°	579.7	579.7	579.7	579.7	579.7	579.7	579.7	579.7	579.7	579.7	579.7
2.5°	677.0	682.6	685.3	686.2	665.1	655.9	646.7	625.6	621.0	609.1	593.4
5°	796.5	803.8	802.0	798.3	772.6	743.2	719.3	679.8	673.4	644.9	610.0
7.5°	914.1	920.5	918.7	904.9	876.4	835.1	795.6	737.7	728.5	682.6	626.5
10°	1012.4	1017.9	1016.9	1003.2	969.2	918.7	870.9	793.7	782.7	717.5	640.3
12.5°	1093.2	1100.5	1099.6	1090.4	1060.1	1005.0	950.8	858.0	844.2	759.7	659.6
15°	1156.6	1165.8	1165.8	1162.1	1141.0	1095.0	1033.5	928.8	912.2	808.4	683.5
17.5°	1195.2	1202.5	1208.9	1215.4	1200.7	1165.8	1109.7	999.5	982.0	856.2	708.3
20°	1215.4	1222.7	1227.3	1241.1	1243.9	1226.4	1182.3	1069.3	1050.9	910.4	736.8
22.5°	1248.4	1254.9	1255.8	1267.7	1273.3	1277.8	1250.3	1138.2	1123.5	970.1	768.9
25°	1303.6	1310.9	1308.2	1313.7	1314.6	1320.1	1317.3	1217.2	1202.5	1038.1	807.5
27.5°	1374.3	1383.5	1381.7	1376.1	1367.9	1363.3	1375.2	1297.1	1283.4	1106.1	847.0
30°	1450.6	1461.6	1458.8	1447.8	1425.7	1406.5	1423.0	1372.5	1359.6	1175.9	891.1
32.5°	1527.7	1540.6	1539.7	1521.3	1483.6	1450.6	1475.4	1443.2	1434.0	1251.2	938.9
35°	1578.2	1594.8	1592.9	1581.9	1533.2	1504.8	1535.1	1515.8	1509.3	1343.1	1007.8
37.5°	1660.0	1677.5	1661.8	1634.3	1578.2	1563.5	1600.3	1597.5	1592.9	1440.4	1080.3
40°	1858.4	1884.2	1842.8	1729.8	1638.0	1625.1	1677.5	1688.5	1683.9	1536.9	1145.6
42.5°	2066.0	2104.6	2040.3	1884.2	1746.4	1699.5	1762.0	1777.6	1772.1	1619.6	1204.4
45°	2191.9	2208.4	2144.1	2022.9	1938.4	1789.5	1852.0	1877.7	1873.1	1718.8	1279.7
47.5°	2294.8	2288.4	2214.9	2133.1	2148.7	1916.3	1954.0	2004.5	2000.8	1828.1	1362.4
50°	2316.8	2302.1	2272.7	2221.3	2262.6	2044.9	2061.5	2148.7	2145.1	1949.4	1446.0
52.5°	2161.6	2142.3	2222.2	2265.4	2251.6	2138.6	2180.0	2306.7	2304.9	2080.7	1525.9
55°	1773.9	1758.3	1973.3	2196.5	2239.7	2204.8	2311.3	2471.2	2481.3	2220.4	1598.5
57.5°	1395.4	1378.9	1590.2	2023.8	2195.6	2265.4	2464.7	2659.5	2672.4	2372.0	1667.4
60°	1112.5	1087.7	1249.4	1751.9	2112.9	2312.2	2612.6	2866.2	2868.0	2510.7	1709.6
62.5°	756.1	728.5	907.6	1407.4	1974.2	2319.6	2726.6	3044.4	3051.8	2614.5	1717.0
65°	459.3	436.4	557.6	1028.0	1769.3	2257.1	2728.4	3175.8	3182.2	2662.3	1672.9
67.5°	266.4	257.2	318.8	640.3	1429.4	2089.0	2613.6	3155.6	3167.5	2642.0	1572.7
70°	155.3	154.3	177.3	316.9	1008.7	1755.5	2357.3	2985.6	3003.1	2536.4	1419.3
72.5°	113.9	115.8	124.9	170.0	584.3	1264.1	1996.2	2643.9	2670.5	2329.7	1200.7
75°	90.0	90.9	99.2	115.8	306.8	714.7	1495.6	2122.1	2143.2	1961.3	937.9
77.5°	67.1	68.9	75.3	81.8	142.4	328.0	841.5	1307.2	1272.3	1076.7	452.9
80°	48.7	53.3	56.0	58.8	75.3	126.8	252.6	455.7	452.0	470.3	214.0
82.5°	31.2	34.9	37.7	39.5	45.0	60.6	75.3	102.0	110.2	182.8	85.4
85°	13.8	15.6	17.5	21.1	19.3	21.1	31.2	20.2	17.5	27.6	15.6
87.5°	0.0	0.0	2.8	4.6	3.7	1.8	5.5	3.7	2.8	2.8	2.8
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°	579.7	579.7	579.7	579.7	579.7	579.7	579.7	579.7	579.7	579.7	579.7
2.5°	585.2	575.1	553.9	533.7	521.8	506.2	492.4	479.5	478.6	474.9	468.5
5°	592.5	573.2	533.7	496.1	467.6	437.3	411.6	391.3	384.0	378.5	371.1
7.5°	599.9	569.6	510.8	455.7	410.6	368.4	338.1	310.5	302.2	294.9	290.3
10°	602.6	563.1	484.1	410.6	351.8	306.8	274.7	254.5	247.1	243.4	240.7
12.5°	610.9	559.5	459.3	368.4	300.4	259.1	236.1	224.2	221.4	218.6	215.9
15°	621.9	559.5	434.5	327.0	260.0	226.9	213.1	204.9	203.0	202.1	200.3
17.5°	633.9	559.5	410.6	292.1	230.6	205.8	195.7	191.1	190.2	189.2	188.3
20°	650.4	560.4	384.9	261.8	209.5	190.2	181.9	176.4	175.5	174.5	174.5
22.5°	666.9	562.2	360.1	238.8	195.7	178.2	168.1	162.6	160.8	160.8	160.8
25°	688.1	567.7	337.1	219.6	183.7	167.2	154.3	149.7	148.8	148.8	147.9
27.5°	712.9	574.2	316.9	204.9	171.8	154.3	141.5	136.9	135.0	135.0	134.1
30°	739.5	580.6	300.4	193.8	159.8	141.5	129.5	124.0	122.2	123.1	122.2
32.5°	768.9	589.8	287.5	186.5	148.8	130.4	119.4	113.0	112.1	112.1	111.2
35°	818.5	615.5	285.7	182.8	139.6	122.2	111.2	104.7	103.8	103.8	102.9
37.5°	871.8	644.9	294.0	181.0	132.3	114.8	104.7	98.3	97.4	97.4	97.4
40°	916.8	666.9	303.2	181.0	127.7	108.4	99.2	93.7	93.7	93.7	93.7
42.5°	947.1	668.8	301.3	181.0	124.0	103.8	95.5	90.0	90.0	90.9	90.0
45°	992.1	678.0	294.0	178.2	121.3	100.1	91.9	87.3	86.4	87.3	87.3
47.5°	1045.4	694.5	286.6	167.2	120.3	96.5	89.1	83.6	82.7	83.6	82.7
50°	1096.0	709.2	282.9	152.5	118.5	92.8	85.4	79.9	79.0	79.9	79.0
52.5°	1138.2	715.6	276.5	142.4	113.9	89.1	81.8	76.2	74.4	75.3	75.3
55°	1172.2	713.8	267.3	134.1	105.6	85.4	77.2	72.6	69.8	69.8	68.9
57.5°	1203.4	714.7	259.1	125.9	96.5	79.9	73.5	68.0	64.3	63.4	62.5
60°	1215.4	710.1	244.4	114.8	87.3	75.3	68.9	62.5	58.8	57.9	57.0
62.5°	1198.8	693.6	225.1	95.5	79.0	69.8	64.3	57.9	54.2	53.3	52.4
65°	1152.0	662.3	195.7	75.3	71.7	63.4	58.8	54.2	49.6	47.8	46.9
67.5°	1072.1	617.3	158.9	60.6	63.4	57.9	55.1	49.6	44.1	42.3	41.3
70°	958.2	557.6	119.4	51.4	56.0	51.4	49.6	44.1	39.5	37.7	36.7
72.5°	798.3	461.2	83.6	44.1	48.7	45.0	43.2	39.5	34.9	32.2	32.2
75°	603.6	330.7	55.1	37.7	40.4	38.6	35.8	33.1	30.3	28.5	27.6
77.5°	260.0	128.6	34.0	28.5	33.1	32.2	28.5	26.6	25.7	23.9	23.9
80°	112.1	52.4	21.1	21.1	23.9	23.0	22.0	20.2	20.2	19.3	18.4
82.5°	41.3	21.1	12.9	15.6	17.5	15.6	15.6	15.6	15.6	14.7	14.7
85°	10.1	6.4	6.4	9.2	10.1	9.2	10.1	9.2	9.2	9.2	8.3
87.5°	2.8	2.8	3.7	3.7	3.7	3.7	3.7	2.8	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)