

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: P799622

Luminaire Tested: **ARCH2-40-727-U-T3-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799622
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-26)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-40-727-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 335mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4319 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 44.1
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

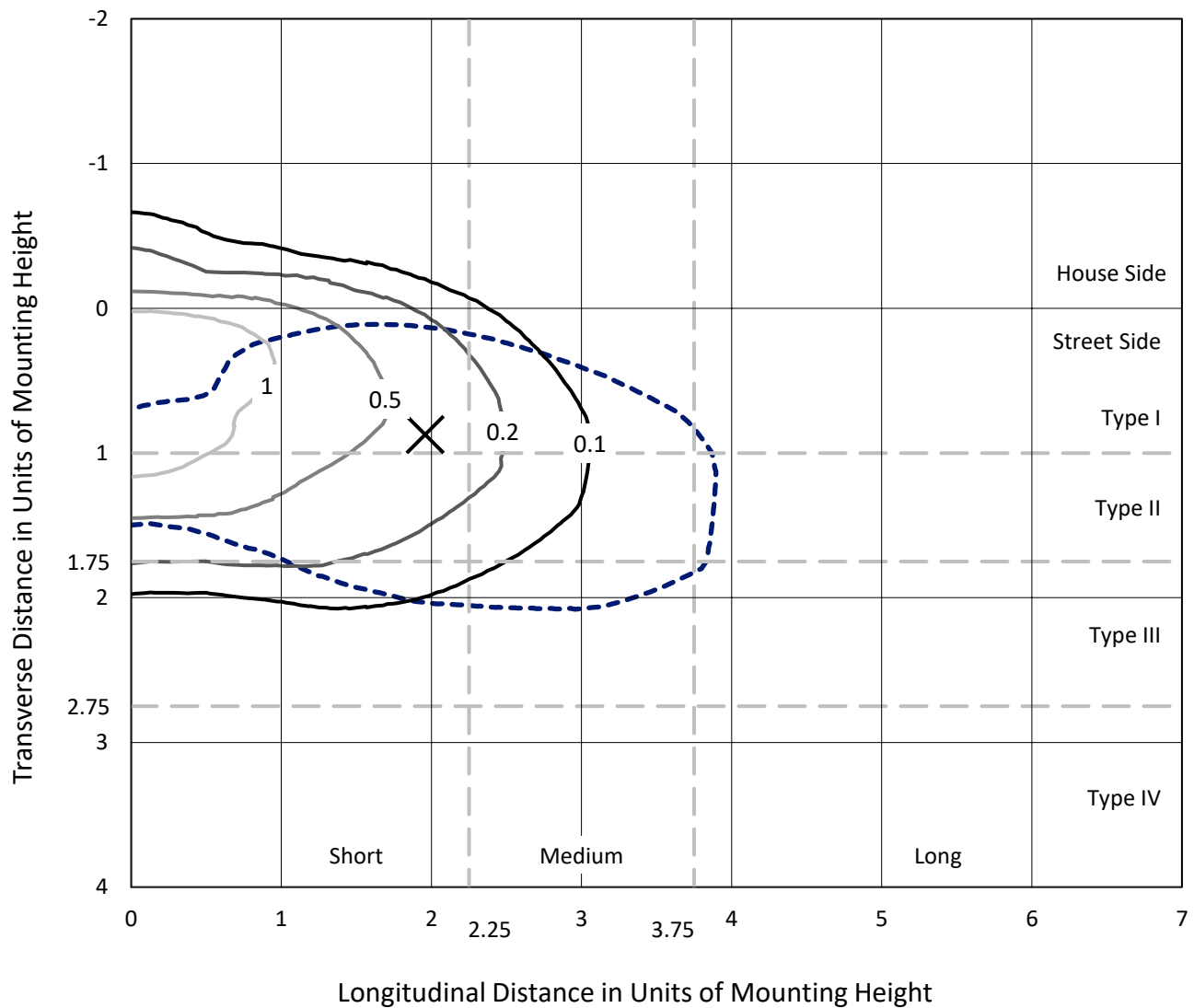


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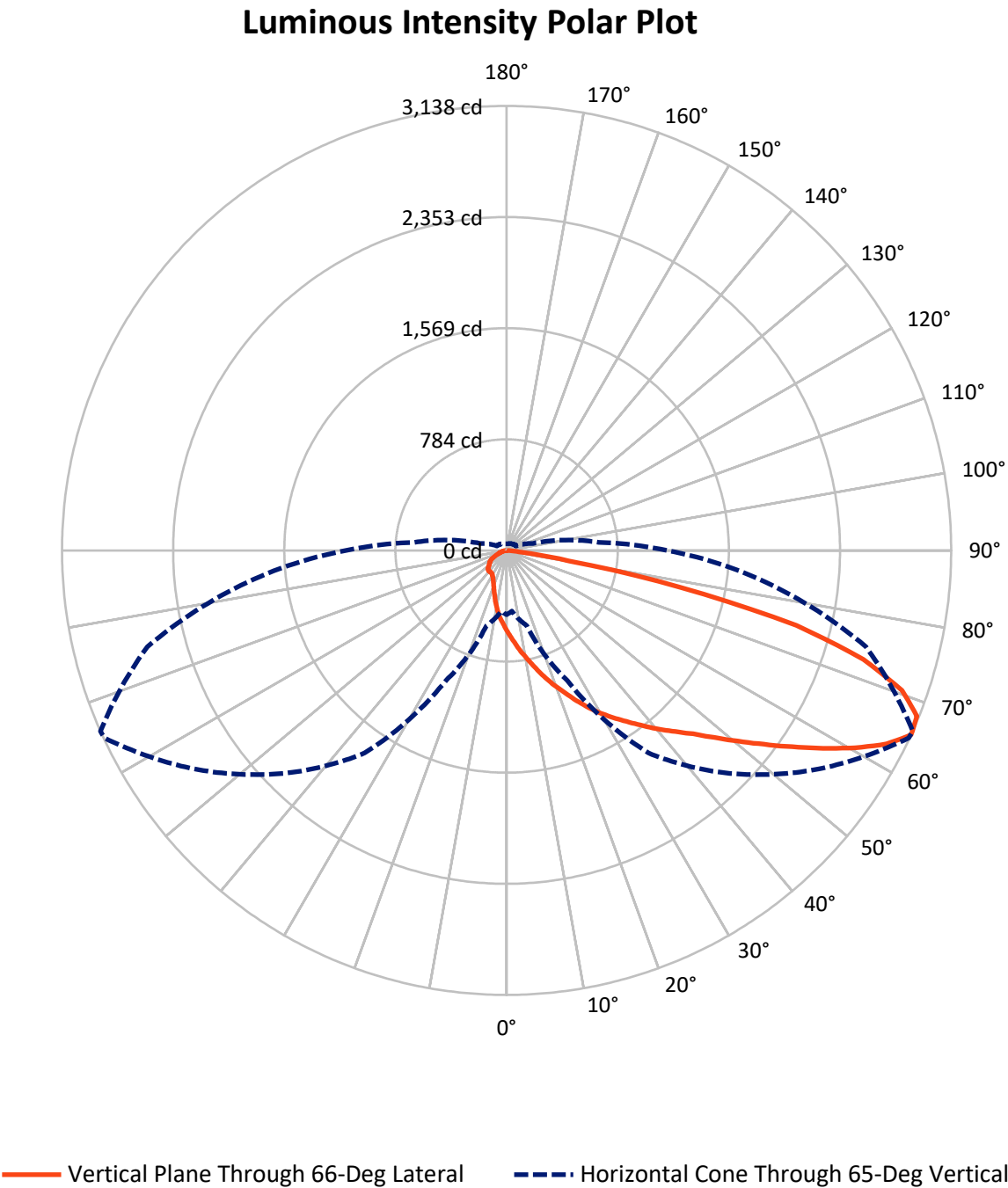
Iso-Footcandle Lines of Horizontal Illumination

✕ 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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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	456.8	0.0	456.8
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	3862.2	0.0	3862.2
	% Fixture	89.4	0.0	89.4
Total	Lumens	4319.0	0.0	4319.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.4	1.3
10°-20°	183.9	4.3
20°-30°	332.7	7.7
30°-40°	520.2	12.0
40°-50°	789.2	18.3
50°-60°	1002.7	23.2
60°-70°	936.9	21.7
70°-80°	465.6	10.8
80°-90°	31.3	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°	4319.0	100.0
0°-180°	4319.0	100.0

Coefficient of Utilization



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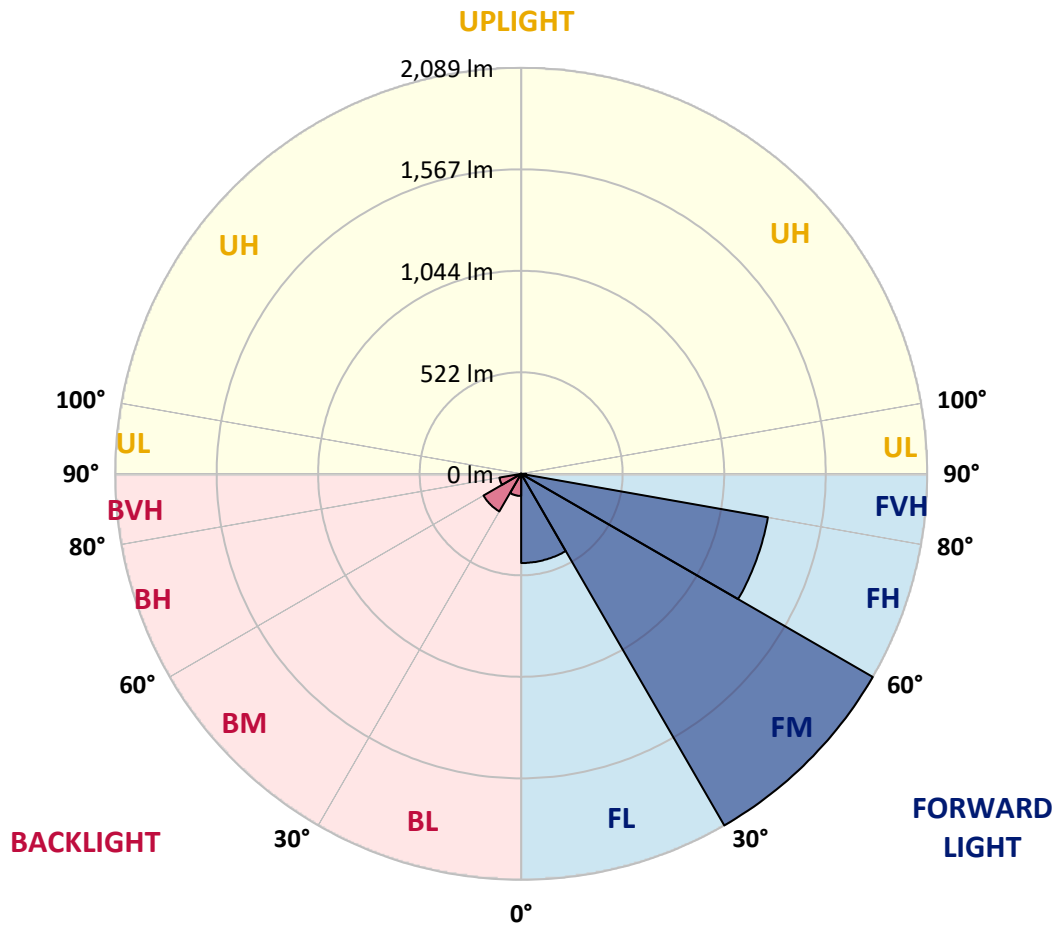
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	458.9	10.6			
FM	(30°-60°)	2088.7	48.4			
FH	(60°-80°)	1288.8	29.8			G1/1800
FVH	(80°-90°)	25.7	0.6			G1/100
BL	(0°-30°)	114.1	2.6	B1/500		
BM	(30°-60°)	223.4	5.2	B1/1000		
BH	(60°-80°)	113.8	2.6	B1/500		G1/500
BVH	(80°-90°)	5.5	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°	571.6	571.6	571.6	571.6	571.6	571.6	571.6	571.6	571.6	571.6	571.6
2.5°	667.6	673.1	675.8	676.7	655.8	646.8	637.7	616.9	612.4	600.6	585.2
5°	785.4	792.6	790.8	787.2	761.8	732.8	709.3	670.3	664.0	635.9	601.5
7.5°	901.3	907.7	905.9	892.3	864.2	823.4	784.5	727.4	718.3	673.1	617.8
10°	998.3	1003.7	1002.8	989.2	955.7	905.9	858.8	782.7	771.8	707.5	631.4
12.5°	1078.0	1085.2	1084.3	1075.3	1045.4	991.0	937.6	846.1	832.5	749.1	650.4
15°	1140.5	1149.5	1149.5	1145.9	1125.1	1079.8	1019.1	915.8	899.5	797.2	674.0
17.5°	1178.5	1185.8	1192.1	1198.4	1184.0	1149.5	1094.3	985.6	968.4	844.3	698.4
20°	1198.4	1205.7	1210.2	1223.8	1226.5	1209.3	1165.8	1054.4	1036.3	897.7	726.5
22.5°	1231.1	1237.4	1238.3	1250.1	1255.5	1260.0	1232.9	1122.4	1107.9	956.6	758.2
25°	1285.4	1292.7	1289.9	1295.4	1296.3	1301.7	1299.0	1200.3	1185.8	1023.6	796.2
27.5°	1355.2	1364.2	1362.4	1357.0	1348.8	1344.3	1356.1	1279.1	1265.5	1090.7	835.2
30°	1430.3	1441.2	1438.5	1427.6	1405.9	1386.9	1403.2	1353.4	1340.7	1159.5	878.7
32.5°	1506.4	1519.1	1518.2	1500.1	1463.0	1430.3	1454.8	1423.1	1414.0	1233.8	925.8
35°	1556.3	1572.6	1570.8	1559.9	1511.9	1483.8	1513.7	1494.7	1488.3	1324.4	993.7
37.5°	1636.9	1654.1	1638.7	1611.5	1556.3	1541.8	1578.0	1575.3	1570.8	1420.4	1065.3
40°	1832.5	1857.9	1817.1	1705.7	1615.1	1602.5	1654.1	1665.0	1660.4	1515.5	1129.6
42.5°	2037.3	2075.3	2011.9	1857.9	1722.0	1675.8	1737.4	1752.8	1747.4	1597.0	1187.6
45°	2161.4	2177.7	2114.3	1994.7	1911.4	1764.6	1826.2	1851.6	1847.0	1694.9	1261.9
47.5°	2262.8	2256.5	2184.0	2103.4	2118.8	1889.6	1926.8	1976.6	1973.0	1802.7	1343.4
50°	2284.6	2270.1	2241.1	2190.4	2231.1	2016.4	2032.7	2118.8	2115.2	1922.2	1425.8
52.5°	2131.5	2112.5	2191.3	2233.8	2220.3	2108.8	2149.6	2274.6	2272.8	2051.8	1504.6
55°	1749.2	1733.8	1945.8	2165.9	2208.5	2174.1	2279.1	2436.8	2446.7	2189.5	1576.2
57.5°	1376.0	1359.7	1568.0	1995.6	2165.0	2233.8	2430.4	2622.5	2635.1	2338.9	1644.1
60°	1097.0	1072.5	1232.0	1727.5	2083.5	2280.0	2576.3	2826.3	2828.1	2475.7	1685.8
62.5°	745.5	718.3	895.0	1387.8	1946.7	2287.3	2688.6	3002.0	3009.3	2578.1	1693.0
65°	452.9	430.3	549.9	1013.7	1744.7	2225.7	2690.4	3131.5	3137.9	2625.2	1649.6
67.5°	262.7	253.6	314.3	631.4	1409.5	2059.9	2577.2	3111.6	3123.4	2605.2	1550.8
70°	153.1	152.2	174.8	312.5	994.6	1731.1	2324.4	2944.0	2961.2	2501.1	1399.5
72.5°	112.3	114.1	123.2	167.6	576.1	1246.5	1968.4	2607.1	2633.3	2297.3	1184.0
75°	88.8	89.7	97.8	114.1	302.6	704.8	1474.7	2092.5	2113.4	1934.0	924.9
77.5°	66.1	67.9	74.3	80.6	140.4	323.4	829.8	1289.0	1254.6	1061.7	446.6
80°	48.0	52.5	55.3	58.0	74.3	125.0	249.1	449.3	445.7	463.8	211.1
82.5°	30.8	34.4	37.1	39.0	44.4	59.8	74.3	100.6	108.7	180.3	84.2
85°	13.6	15.4	17.2	20.8	19.0	20.8	30.8	19.9	17.2	27.2	15.4
87.5°	0.0	0.0	2.7	4.5	3.6	1.8	5.4	3.6	2.7	2.7	2.7
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°	571.6	571.6	571.6	571.6	571.6	571.6	571.6	571.6	571.6	571.6	571.6
2.5°	577.0	567.1	546.2	526.3	514.5	499.1	485.5	472.9	472.0	468.3	462.0
5°	584.3	565.3	526.3	489.2	461.1	431.2	405.8	385.9	378.6	373.2	366.0
7.5°	591.5	561.6	503.7	449.3	404.9	363.2	333.4	306.2	298.0	290.8	286.3
10°	594.2	555.3	477.4	404.9	346.9	302.6	270.9	250.9	243.7	240.1	237.3
12.5°	602.4	551.7	452.9	363.2	296.2	255.5	232.8	221.0	218.3	215.6	212.9
15°	613.3	551.7	428.5	322.5	256.4	223.7	210.2	202.0	200.2	199.3	197.5
17.5°	625.0	551.7	404.9	288.1	227.4	202.9	192.9	188.4	187.5	186.6	185.7
20°	641.3	552.6	379.6	258.2	206.5	187.5	179.4	173.9	173.0	172.1	172.1
22.5°	657.7	554.4	355.1	235.5	192.9	175.7	165.8	160.3	158.5	158.5	158.5
25°	678.5	559.8	332.4	216.5	181.2	164.9	152.2	147.7	146.7	146.7	145.8
27.5°	702.9	566.2	312.5	202.0	169.4	152.2	139.5	135.0	133.2	133.2	132.3
30°	729.2	572.5	296.2	191.1	157.6	139.5	127.7	122.3	120.5	121.4	120.5
32.5°	758.2	581.6	283.5	183.9	146.7	128.6	117.8	111.4	110.5	110.5	109.6
35°	807.1	606.9	281.7	180.3	137.7	120.5	109.6	103.3	102.4	102.4	101.5
37.5°	859.7	635.9	289.9	178.5	130.4	113.2	103.3	96.9	96.0	96.0	96.0
40°	904.0	657.7	298.9	178.5	125.9	106.9	97.8	92.4	92.4	92.4	92.4
42.5°	933.9	659.5	297.1	178.5	122.3	102.4	94.2	88.8	88.8	89.7	88.8
45°	978.3	668.5	289.9	175.7	119.6	98.7	90.6	86.1	85.2	86.1	86.1
47.5°	1030.9	684.8	282.6	164.9	118.7	95.1	87.9	82.4	81.5	82.4	81.5
50°	1080.7	699.3	279.0	150.4	116.9	91.5	84.2	78.8	77.9	78.8	77.9
52.5°	1122.4	705.7	272.7	140.4	112.3	87.9	80.6	75.2	73.4	74.3	74.3
55°	1155.9	703.9	263.6	132.3	104.2	84.2	76.1	71.6	68.8	68.8	67.9
57.5°	1186.7	704.8	255.5	124.1	95.1	78.8	72.5	67.0	63.4	62.5	61.6
60°	1198.4	700.2	241.0	113.2	86.1	74.3	67.9	61.6	58.0	57.1	56.2
62.5°	1182.1	683.9	221.9	94.2	77.9	68.8	63.4	57.1	53.4	52.5	51.6
65°	1135.9	653.1	192.9	74.3	70.7	62.5	58.0	53.4	48.9	47.1	46.2
67.5°	1057.1	608.7	156.7	59.8	62.5	57.1	54.4	48.9	43.5	41.7	40.8
70°	944.8	549.9	117.8	50.7	55.3	50.7	48.9	43.5	39.0	37.1	36.2
72.5°	787.2	454.7	82.4	43.5	48.0	44.4	42.6	39.0	34.4	31.7	31.7
75°	595.1	326.1	54.4	37.1	39.9	38.0	35.3	32.6	29.9	28.1	27.2
77.5°	256.4	126.8	33.5	28.1	32.6	31.7	28.1	26.3	25.4	23.6	23.6
80°	110.5	51.6	20.8	20.8	23.6	22.6	21.7	19.9	19.9	19.0	18.1
82.5°	40.8	20.8	12.7	15.4	17.2	15.4	15.4	15.4	15.4	14.5	14.5
85°	10.0	6.3	6.3	9.1	10.0	9.1	10.0	9.1	9.1	9.1	8.2
87.5°	2.7	2.7	3.6	3.6	3.6	3.6	3.6	2.7	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)