

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: P798962

Luminaire Tested: **ARCH1-50-722-U-T2R-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798962
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-2)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH1-50-722-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1470mA LIGHTSQUARE WITH 10 LEDS AND TYPE II ROADWAY
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4060 lumens
Efficiency: N/A
Efficacy: 76.6 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 53
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

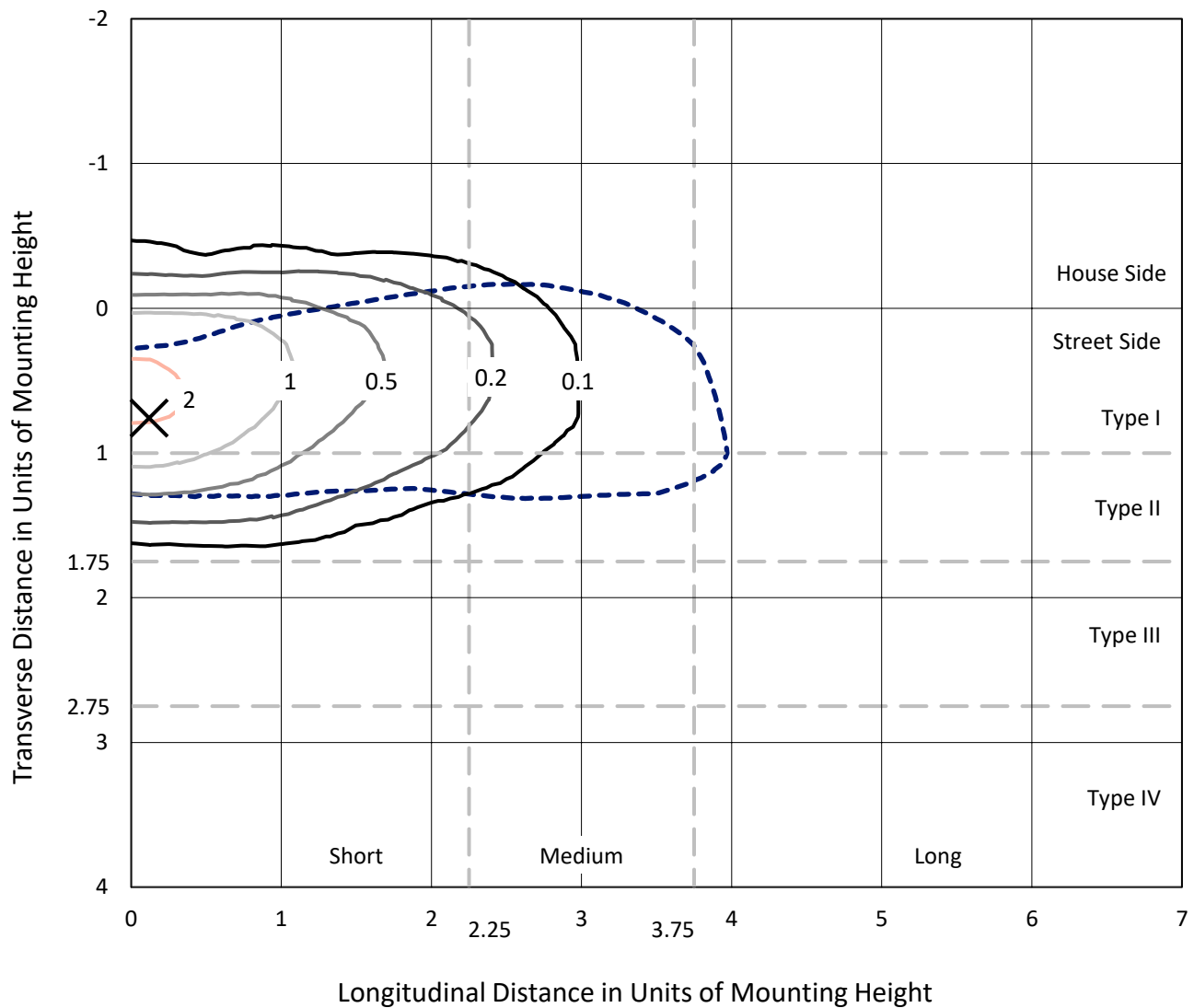


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

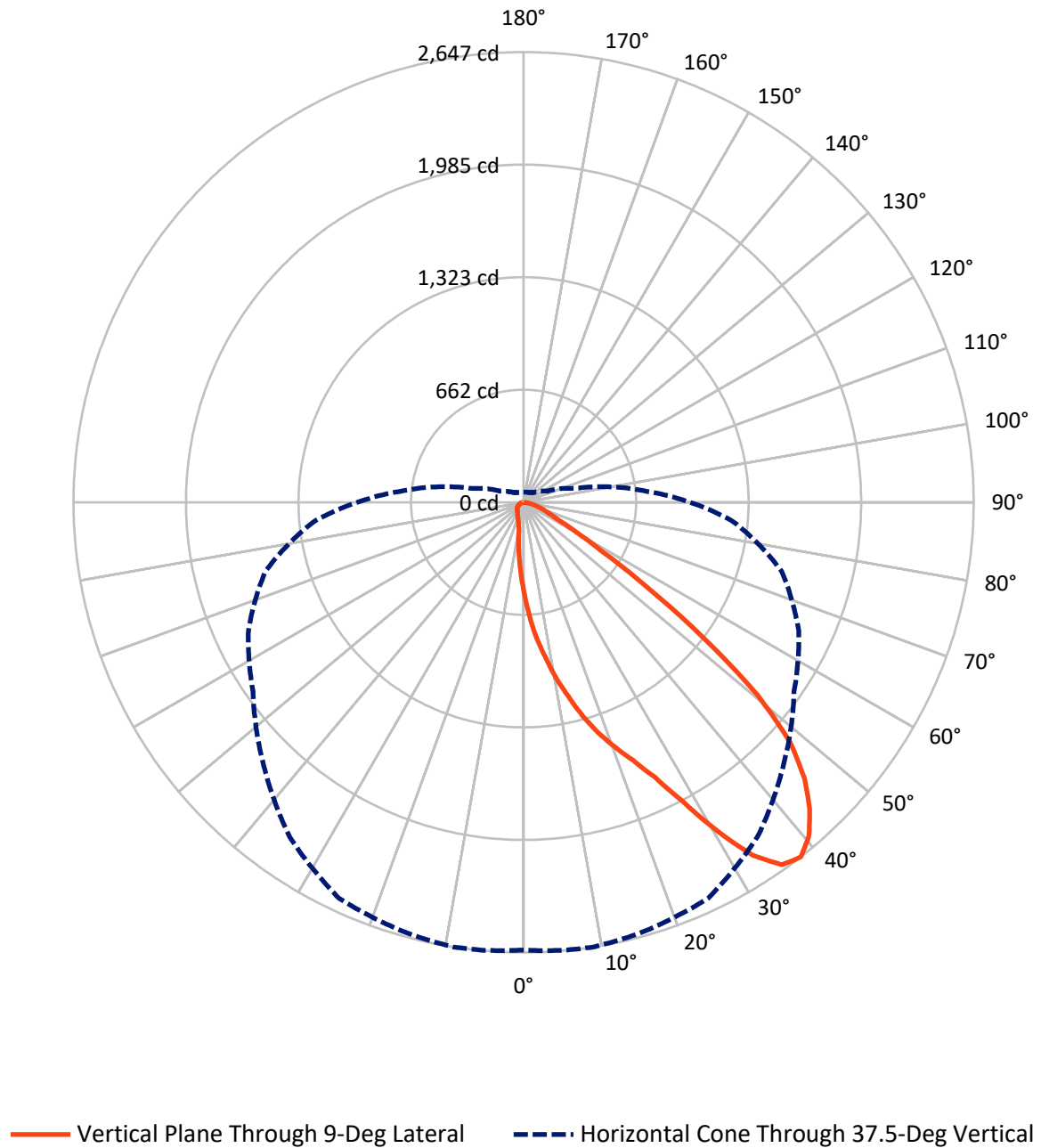


Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	493.8	0.0	493.8
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	3566.2	0.0	3566.2
	% Fixture	87.8	0.0	87.8
Total	Lumens	4060.0	0.0	4060.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.9	1.3
10°-20°	187.5	4.6
20°-30°	385.3	9.5
30°-40°	681.0	16.8
40°-50°	904.6	22.3
50°-60°	858.0	21.1
60°-70°	654.6	16.1
70°-80°	317.3	7.8
80°-90°	17.9	0.4
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°	4060.0	100.0
0°-180°	4060.0	100.0

Coefficient of Utilization



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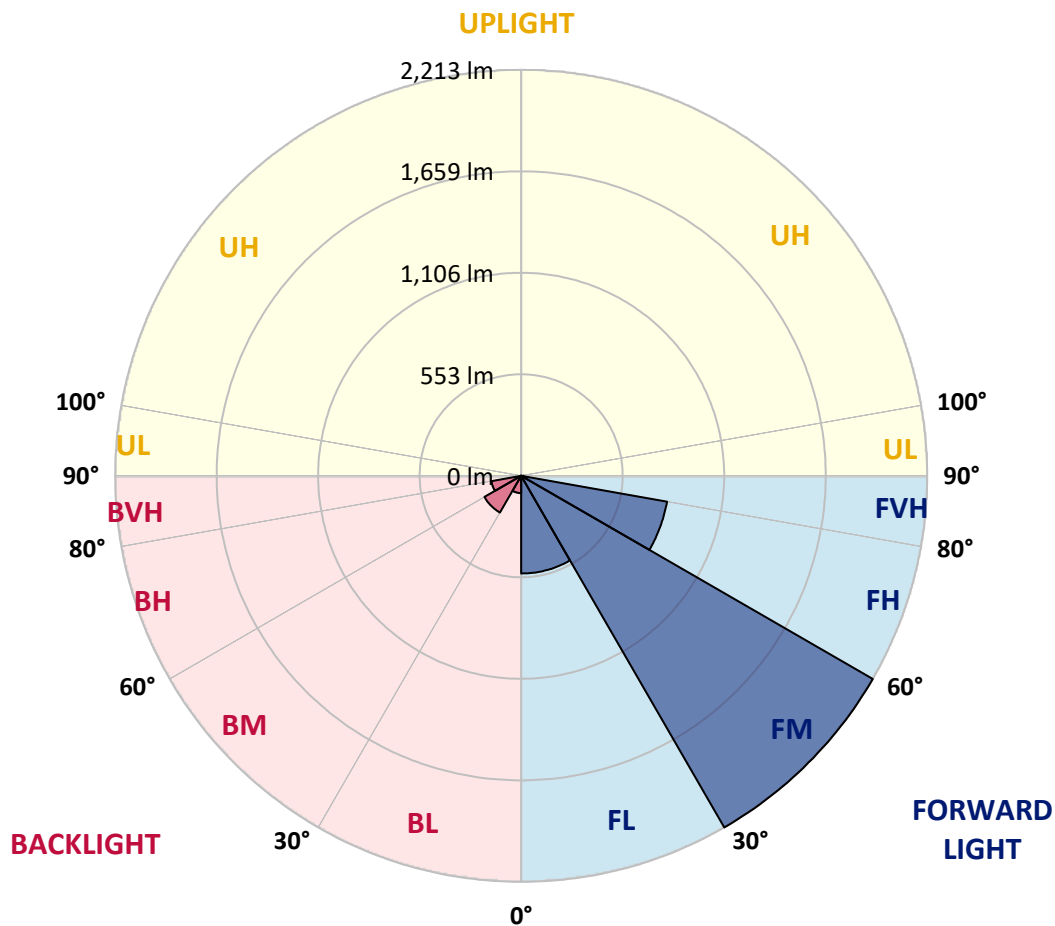
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	532.5	13.1			
FM	(30°-60°)	2212.5	54.5			
FH	(60°-80°)	807.1	19.9			G1/1800
FVH	(80°-90°)	14.1	0.3			G1/100
BL	(0°-30°)	94.2	2.3	B0/110		
BM	(30°-60°)	231.0	5.7	B1/1000		
BH	(60°-80°)	164.8	4.1	B1/500		G1/500
BVH	(80°-90°)	3.7	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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	536.7	536.7	536.7	536.7	536.7	536.7	536.7	536.7	536.7	536.7	536.7
2.5°	665.0	653.4	666.7	665.0	653.4	645.9	622.5	615.0	587.5	567.5	550.0
5°	801.7	790.0	801.7	798.4	781.7	763.4	725.0	700.0	650.9	607.5	568.4
7.5°	915.0	915.0	920.0	920.9	900.9	872.5	825.0	787.5	718.4	651.7	589.2
10°	1037.5	1038.4	1049.2	1041.7	1015.0	976.7	916.7	869.2	785.9	698.4	609.2
12.5°	1168.4	1169.2	1172.5	1169.2	1137.5	1088.4	1015.9	953.4	857.5	751.7	636.7
15°	1299.2	1300.0	1304.2	1298.4	1263.4	1205.9	1123.4	1046.7	933.4	811.7	670.0
17.5°	1421.7	1423.4	1426.7	1419.2	1382.5	1314.2	1230.0	1137.5	1014.2	875.9	707.5
20°	1531.7	1533.4	1535.9	1525.9	1489.2	1420.9	1330.0	1233.4	1096.7	941.7	748.4
22.5°	1642.5	1644.2	1648.4	1635.0	1594.2	1515.9	1426.7	1326.7	1184.2	1014.2	795.9
25°	1784.2	1785.9	1789.2	1770.1	1714.2	1622.5	1528.4	1425.9	1279.2	1095.9	854.2
27.5°	1991.7	1990.1	1990.1	1955.1	1859.2	1740.1	1630.9	1526.7	1381.7	1183.4	918.4
30°	2248.4	2244.2	2241.7	2194.2	2057.6	1872.6	1735.9	1620.9	1480.0	1275.9	987.5
32.5°	2478.4	2478.4	2473.4	2423.4	2278.4	2050.9	1847.6	1712.6	1575.0	1369.2	1059.2
35°	2614.2	2620.1	2617.6	2580.1	2474.2	2242.6	1998.4	1822.6	1675.1	1466.7	1145.0
37.5°	2632.6	2644.2	2646.7	2624.2	2568.4	2399.2	2165.9	1941.7	1785.1	1571.7	1228.4
40°	2558.4	2583.4	2583.4	2580.1	2560.1	2473.4	2306.7	2080.1	1898.4	1680.9	1312.5
42.5°	2444.2	2470.1	2466.7	2479.2	2474.2	2455.9	2385.9	2209.2	2011.7	1793.4	1389.2
45°	2295.1	2321.7	2315.1	2337.6	2347.6	2367.6	2377.6	2299.2	2123.4	1915.9	1475.0
47.5°	2055.9	2100.9	2110.9	2150.9	2192.6	2255.1	2302.6	2331.7	2227.6	2047.6	1568.4
50°	1702.6	1765.9	1785.9	1870.1	1984.2	2113.4	2190.1	2291.7	2300.9	2182.6	1669.2
52.5°	1219.2	1292.5	1323.4	1461.7	1696.7	1921.7	2060.1	2203.4	2329.2	2311.7	1778.4
55°	788.4	850.9	880.9	1010.9	1323.4	1676.7	1906.7	2089.2	2313.4	2430.1	1903.4
57.5°	485.8	521.7	541.7	653.4	940.9	1362.5	1705.9	1984.2	2265.1	2532.6	2033.4
60°	327.5	348.3	358.3	410.8	639.2	1018.4	1430.0	1874.2	2201.7	2601.7	2151.7
62.5°	217.5	224.2	234.2	266.7	421.7	715.0	1098.4	1677.6	2154.2	2605.9	2239.2
65°	168.3	171.7	175.8	190.0	260.0	500.0	772.5	1359.2	2083.4	2517.6	2266.7
67.5°	132.5	135.8	140.8	148.3	188.3	339.2	525.8	995.9	1938.4	2379.2	2221.7
70°	104.2	106.7	110.0	116.7	146.7	245.8	347.5	661.7	1645.9	2247.6	2080.1
72.5°	82.5	85.0	88.3	95.0	119.2	180.0	238.3	412.5	1269.2	2086.7	1807.6
75°	65.0	66.7	69.2	75.8	95.8	140.0	161.7	246.7	862.5	1792.6	1408.4
77.5°	32.5	40.0	45.8	52.5	70.0	96.7	107.5	136.7	364.2	920.0	671.7
80°	19.2	23.3	25.0	29.2	45.8	58.3	58.3	55.0	115.0	353.3	274.2
82.5°	10.8	15.0	15.8	16.7	27.5	33.3	26.7	20.0	23.3	118.3	80.0
85°	3.3	5.0	5.8	6.7	9.2	10.0	9.2	8.3	6.7	11.7	7.5
87.5°	0.0	0.0	0.0	0.0	0.8	1.7	1.7	1.7	2.5	2.5	2.5
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°	536.7	536.7	536.7	536.7	536.7	536.7	536.7	536.7	536.7	536.7	536.7
2.5°	540.0	529.2	508.3	489.2	470.8	457.5	445.0	433.3	425.0	418.3	417.5
5°	547.5	525.8	485.8	448.3	414.2	385.8	361.7	342.5	328.3	318.3	317.5
7.5°	557.5	524.2	463.3	407.5	356.7	315.8	280.8	255.0	236.7	229.2	223.3
10°	565.9	522.5	440.8	366.7	300.0	248.3	206.7	180.8	167.5	162.5	160.0
12.5°	580.0	524.2	421.7	329.2	250.8	190.0	158.3	144.2	138.3	134.2	133.3
15°	600.9	531.7	403.3	292.5	200.8	153.3	135.0	125.8	120.0	119.2	118.3
17.5°	621.7	538.3	386.7	255.0	166.7	133.3	120.8	113.3	109.2	108.3	108.3
20°	645.9	546.7	368.3	219.2	142.5	120.0	110.0	104.2	99.2	98.3	98.3
22.5°	674.2	558.4	350.8	187.5	126.7	110.0	101.7	95.0	90.8	90.0	90.0
25°	712.5	575.9	336.7	164.2	115.8	101.7	94.2	88.3	85.0	83.3	83.3
27.5°	755.0	600.0	326.7	150.0	108.3	95.0	87.5	82.5	79.2	77.5	77.5
30°	802.5	626.7	320.0	144.2	104.2	89.2	82.5	77.5	73.3	72.5	72.5
32.5°	855.0	657.5	315.8	145.0	103.3	85.0	77.5	72.5	69.2	67.5	67.5
35°	913.4	691.7	313.3	150.0	105.0	81.7	73.3	68.3	65.0	63.3	63.3
37.5°	978.4	731.7	313.3	155.0	109.2	80.8	69.2	64.2	61.7	60.0	60.0
40°	1039.2	774.2	316.7	160.8	113.3	80.8	65.8	61.7	58.3	56.7	56.7
42.5°	1086.7	798.4	319.2	166.7	115.8	80.0	62.5	58.3	55.8	54.2	54.2
45°	1140.9	824.2	314.2	169.2	115.8	78.3	60.0	55.8	53.3	51.7	51.7
47.5°	1200.9	855.9	313.3	170.8	113.3	75.0	57.5	53.3	51.7	50.0	50.0
50°	1261.7	890.9	315.0	170.0	110.0	70.0	54.2	51.7	49.2	47.5	47.5
52.5°	1330.9	927.5	318.3	168.3	102.5	64.2	51.7	49.2	46.7	45.0	44.2
55°	1407.5	967.5	325.0	165.0	92.5	58.3	49.2	46.7	43.3	41.7	40.8
57.5°	1495.9	1016.7	332.5	158.3	81.7	53.3	46.7	43.3	38.3	35.8	35.0
60°	1580.0	1072.5	340.8	142.5	70.8	48.3	44.2	39.2	34.2	32.5	31.7
62.5°	1659.2	1127.5	345.0	114.2	60.0	44.2	41.7	35.8	30.8	29.2	28.3
65°	1710.1	1187.5	335.8	77.5	49.2	40.8	38.3	33.3	28.3	25.8	25.8
67.5°	1713.4	1215.9	304.2	50.8	40.0	36.7	35.0	30.0	25.0	23.3	22.5
70°	1629.2	1173.4	232.5	40.0	33.3	31.7	31.7	26.7	21.7	20.0	19.2
72.5°	1435.9	1039.2	148.3	32.5	28.3	26.7	26.7	22.5	19.2	16.7	15.8
75°	1133.4	801.7	79.2	26.7	23.3	22.5	20.8	18.3	15.8	14.2	13.3
77.5°	520.8	353.3	36.7	19.2	17.5	17.5	15.8	13.3	12.5	10.8	10.8
80°	205.8	120.0	18.3	12.5	11.7	11.7	11.7	9.2	9.2	7.5	6.7
82.5°	56.7	25.0	9.2	7.5	7.5	7.5	6.7	5.8	5.8	5.0	5.0
85°	5.8	4.2	4.2	4.2	4.2	3.3	3.3	2.5	1.7	1.7	1.7
87.5°	2.5	2.5	2.5	2.5	2.5	1.7	0.8	0.0	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)