

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: P1209972

Luminaire Tested: **ARCH1-40-722-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1209972
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH1-40-722-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1220mA LIGHTSQUARE WITH 10 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

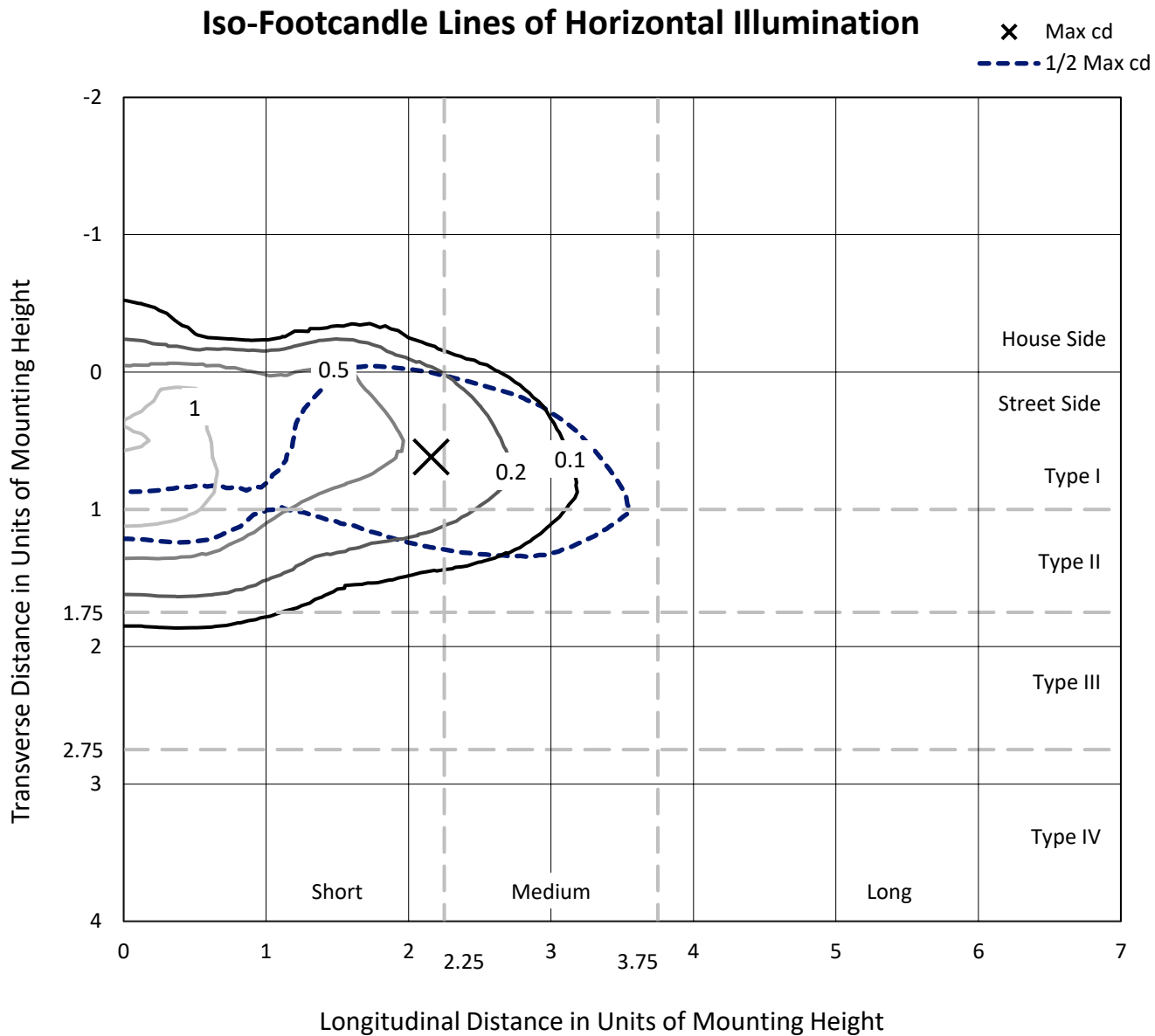
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3590 lumens
Efficiency: N/A
Efficacy: 83.5 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 43
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



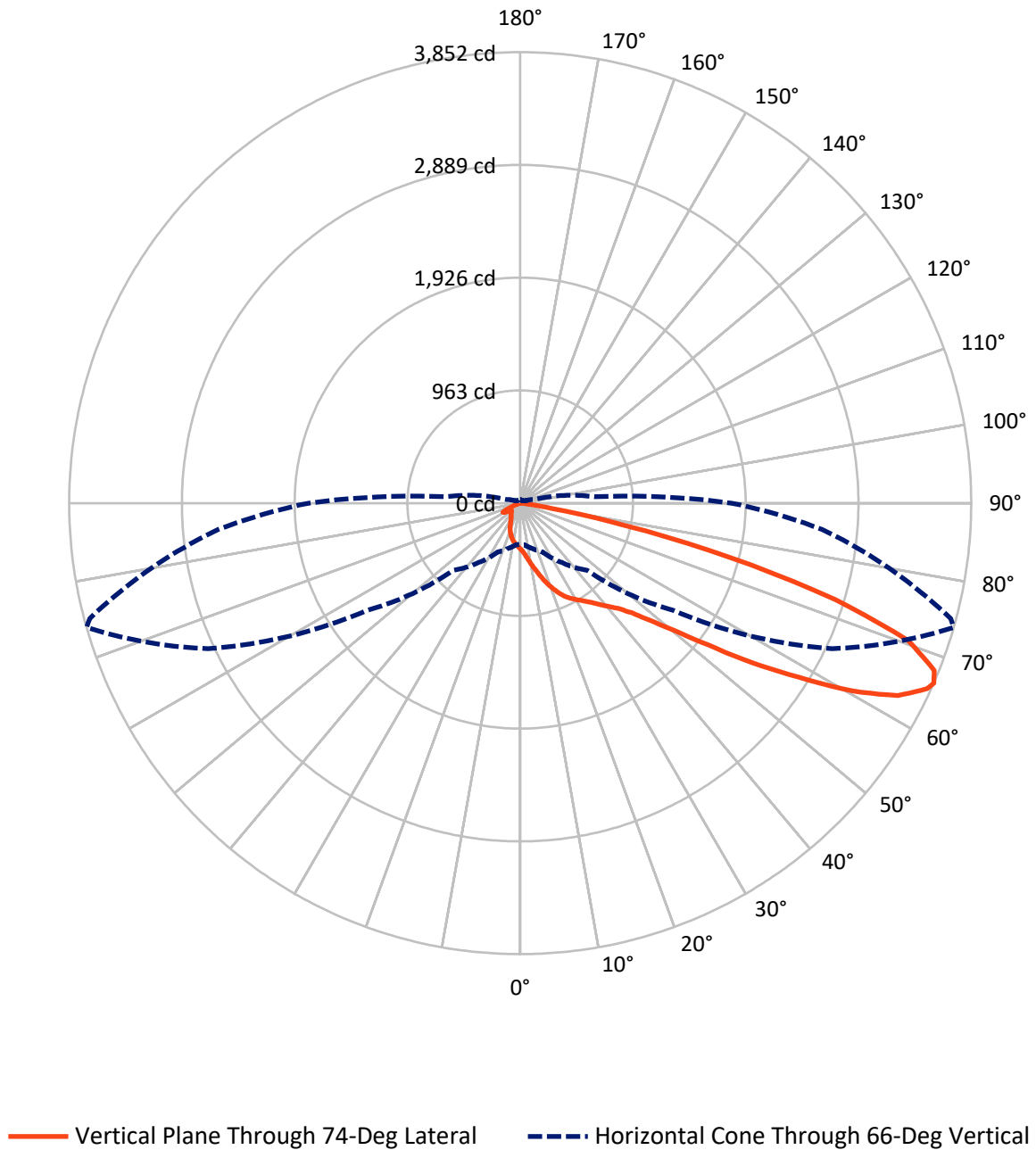
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Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	351.9	0.0	351.9
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	3238.1	0.0	3238.1
	% Fixture	90.2	0.0	90.2
Total	Lumens	3590.0	0.0	3590.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.2	1.1
10°-20°	122.6	3.4
20°-30°	234.0	6.5
30°-40°	410.2	11.4
40°-50°	703.3	19.6
50°-60°	914.8	25.5
60°-70°	828.1	23.1
70°-80°	319.5	8.9
80°-90°	19.2	0.5
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°	3590.0	100.0
0°-180°	3590.0	100.0

Coefficient of Utilization



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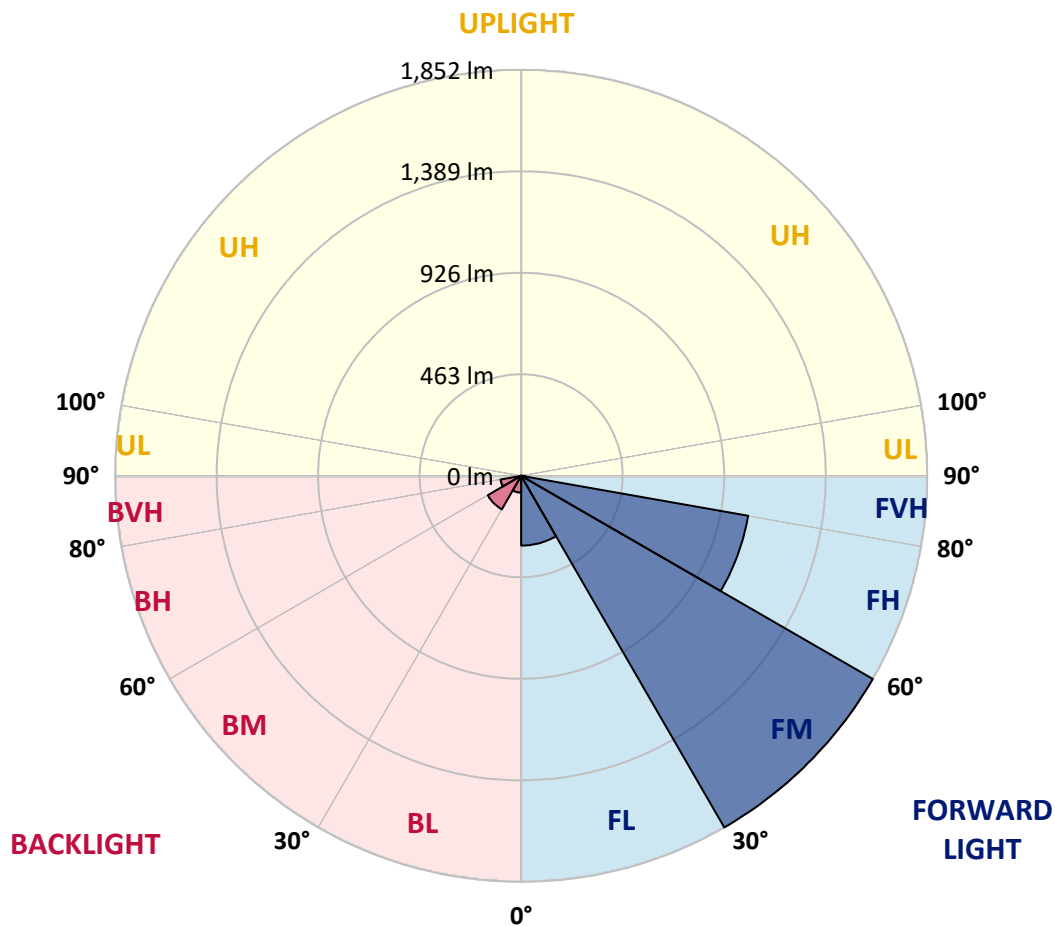
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	318.1	8.9			
FM	(30°-60°)	1851.9	51.6			
FH	(60°-80°)	1051.4	29.3			G1/1800
FVH	(80°-90°)	16.7	0.5			G1/100
BL	(0°-30°)	76.8	2.1	B0/110		
BM	(30°-60°)	176.4	4.9	B0/220		
BH	(60°-80°)	96.2	2.7	B0/110		G0/110
BVH	(80°-90°)	2.6	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	391.9	391.9	391.9	391.9	391.9	391.9	391.9	391.9	391.9	391.9	391.9
2.5°	470.5	466.6	459.6	458.9	453.1	446.0	433.8	420.9	411.9	410.6	399.6
5°	563.3	561.4	554.3	549.8	538.8	522.1	493.7	465.4	441.5	438.9	414.4
7.5°	587.8	589.1	590.4	594.9	591.0	583.3	562.0	522.1	484.7	478.9	436.4
10°	591.7	590.4	590.4	596.2	607.2	618.1	615.5	581.4	533.0	525.9	466.6
12.5°	633.6	635.5	631.0	628.4	626.5	632.3	651.6	636.8	584.0	578.2	503.4
15°	687.7	687.1	680.6	680.6	674.8	665.2	677.4	688.4	645.2	638.1	545.3
17.5°	727.0	729.6	729.0	732.8	730.9	718.0	711.6	734.1	708.3	699.3	593.0
20°	758.6	765.7	768.3	780.5	786.3	777.3	760.6	774.7	768.9	760.6	641.3
22.5°	792.1	797.9	802.5	823.7	839.8	837.9	816.6	813.4	827.6	819.9	689.0
25°	825.7	828.2	841.8	867.5	893.3	899.8	877.9	852.7	880.4	873.3	731.6
27.5°	862.4	863.7	879.8	911.4	947.5	961.0	943.6	897.2	921.0	921.0	770.2
30°	929.4	942.3	948.8	977.1	1008.7	1027.4	1006.8	944.2	957.1	962.9	810.8
32.5°	1073.8	1075.7	1073.8	1086.0	1092.5	1103.5	1079.6	997.1	993.9	1000.3	850.8
35°	1294.2	1286.5	1265.9	1247.8	1210.4	1189.8	1158.9	1064.8	1039.0	1048.0	890.1
37.5°	1561.7	1550.8	1503.7	1448.3	1368.4	1285.9	1247.2	1147.3	1096.4	1108.0	932.6
40°	1817.0	1809.9	1753.8	1685.5	1548.8	1407.7	1325.8	1216.9	1160.2	1164.7	975.8
42.5°	2027.1	2025.8	1978.7	1907.2	1731.9	1539.2	1418.6	1285.2	1227.2	1234.3	1020.9
45°	2186.3	2174.0	2139.2	2087.7	1909.1	1675.8	1530.8	1389.0	1334.8	1343.2	1088.6
47.5°	2186.3	2188.2	2210.8	2205.6	2032.9	1804.1	1653.2	1519.8	1494.0	1501.8	1200.1
50°	2008.4	2026.4	2127.0	2211.4	2097.3	1904.0	1785.4	1683.5	1710.0	1721.6	1394.8
52.5°	1656.5	1686.8	1861.4	2054.1	2049.6	1954.2	1922.0	1891.7	2010.3	2030.9	1682.2
55°	1258.8	1278.8	1506.3	1759.6	1842.1	1913.0	2041.3	2156.0	2408.0	2403.5	1974.2
57.5°	940.4	959.1	1155.0	1436.0	1545.0	1734.5	2102.5	2458.3	2802.5	2819.9	2248.2
60°	691.6	705.8	872.7	1103.5	1260.7	1461.2	2078.0	2756.0	3256.9	3236.9	2489.9
62.5°	511.8	519.5	640.0	790.2	999.0	1190.5	1923.9	2959.7	3619.7	3579.1	2624.6
65°	395.7	398.3	460.8	540.8	726.4	925.6	1694.5	2990.7	3820.2	3777.0	2622.0
66°	352.6	354.5	400.3	462.1	618.1	810.2	1593.9	2941.0	3851.8	3806.0	2589.8
67.5°	295.8	294.6	321.6	362.2	464.1	625.2	1415.4	2796.0	3814.4	3791.2	2486.6
70°	219.1	219.8	233.3	243.0	271.4	346.1	1022.2	2425.4	3515.3	3514.0	2203.7
72.5°	162.4	164.4	174.7	176.6	169.5	187.6	589.1	1929.1	2812.1	2812.8	1647.4
75°	121.8	125.0	128.3	129.6	123.1	118.6	266.2	1298.1	1849.8	1836.3	932.6
77.5°	92.8	94.1	96.7	94.7	93.5	81.9	110.9	632.9	913.3	832.1	302.3
80°	67.7	67.7	70.3	67.7	67.0	58.7	60.6	203.0	268.1	223.0	65.1
82.5°	42.5	41.9	43.8	43.2	41.9	37.4	35.4	56.7	61.9	55.4	31.6
85°	23.8	23.2	22.6	21.9	20.0	16.8	19.3	21.3	28.4	29.0	22.6
87.5°	8.4	8.4	7.7	7.1	5.8	5.8	7.1	7.1	10.3	10.3	11.6
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°	391.9	391.9	391.9	391.9	391.9	391.9	391.9	391.9	391.9	391.9	391.9
2.5°	394.5	387.4	377.1	363.5	353.9	344.2	333.9	328.1	319.7	317.8	320.3
5°	401.5	388.7	362.9	334.5	310.0	288.1	267.5	255.2	243.0	238.5	240.4
7.5°	416.4	394.5	350.6	304.9	264.3	231.4	206.9	192.7	181.8	177.2	178.5
10°	438.3	404.8	339.0	271.4	219.1	184.3	163.7	154.7	148.2	145.7	146.3
12.5°	464.7	419.6	324.2	237.8	180.5	150.2	140.5	138.6	137.3	136.0	136.6
15°	494.4	432.5	306.8	205.0	150.2	133.4	130.2	129.6	128.9	128.9	128.9
17.5°	525.3	444.1	287.5	174.0	130.8	123.1	121.2	121.2	121.2	121.8	121.8
20°	554.3	453.1	264.9	146.3	119.9	113.4	112.1	112.1	112.8	113.4	113.4
22.5°	582.7	457.0	238.5	127.0	110.9	105.1	103.1	103.1	103.1	103.8	103.8
25°	607.2	457.0	212.1	114.7	103.1	97.3	94.7	94.1	94.7	94.7	94.7
27.5°	627.8	455.0	186.3	106.3	95.4	89.6	87.0	86.4	87.7	88.3	88.3
30°	649.7	452.5	165.6	98.6	88.9	83.1	80.6	80.6	82.5	85.1	85.1
32.5°	671.0	454.4	149.5	92.2	82.5	78.0	75.4	76.1	79.9	83.8	83.8
35°	693.5	458.3	139.9	87.7	78.0	73.5	71.5	73.5	77.3	81.2	81.2
37.5°	716.1	462.8	134.1	83.8	74.1	69.6	68.3	70.9	75.4	79.3	79.9
40°	739.9	466.6	127.6	79.9	71.5	66.4	65.7	68.3	74.1	78.0	78.6
42.5°	769.6	474.4	119.9	76.7	69.0	62.5	63.2	65.1	70.9	76.7	77.3
45°	827.6	498.9	112.1	73.5	65.7	60.6	59.3	60.6	67.0	73.5	74.8
47.5°	936.5	554.3	103.8	70.3	62.5	59.3	54.1	55.4	61.2	68.3	69.0
50°	1145.3	672.3	99.3	67.0	59.9	54.8	49.0	49.0	53.5	59.9	59.9
52.5°	1470.8	883.7	101.8	64.5	56.7	50.3	44.5	43.8	46.4	50.9	50.9
55°	1822.1	1115.7	111.5	61.9	52.9	47.7	41.3	38.0	40.0	42.5	42.5
57.5°	2100.6	1232.4	137.9	60.6	48.3	45.8	37.4	32.9	34.8	37.4	37.4
60°	2223.0	1164.0	167.6	61.9	45.1	42.5	33.5	29.0	32.2	34.8	35.4
62.5°	2123.8	958.4	179.8	58.7	40.6	38.0	32.9	27.1	30.9	32.9	33.5
65°	1909.1	728.3	140.5	50.9	37.4	32.9	29.6	25.8	29.0	30.9	30.9
66°	1807.3	634.9	119.9	47.1	36.1	30.9	28.4	25.8	28.4	29.6	30.3
67.5°	1649.4	500.8	88.9	41.3	33.5	28.4	26.4	24.5	27.1	28.4	28.4
70°	1289.7	298.4	53.5	32.2	29.0	25.1	23.8	22.6	24.5	25.1	25.1
72.5°	807.6	141.8	34.2	23.8	24.5	23.8	20.0	21.3	21.9	22.6	22.6
75°	391.2	56.1	23.2	17.4	20.0	22.6	16.1	18.7	19.3	20.6	20.0
77.5°	108.9	27.1	14.8	12.9	17.4	17.4	12.2	14.8	17.4	21.9	20.0
80°	31.6	17.4	9.7	9.7	12.2	12.2	8.4	10.3	11.6	12.9	13.5
82.5°	21.9	11.6	6.4	7.1	7.1	7.7	5.2	5.2	6.4	6.4	7.1
85°	17.4	5.2	3.9	4.5	3.2	3.9	2.6	2.6	3.2	2.6	2.6
87.5°	7.1	2.6	2.6	2.6	1.9	1.9	1.3	0.6	0.6	0.6	0.6
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)