

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: P1210164

Luminaire Tested: **ARCH2-40-722-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210164
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: ARCH2-40-722-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 335mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4117 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - 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



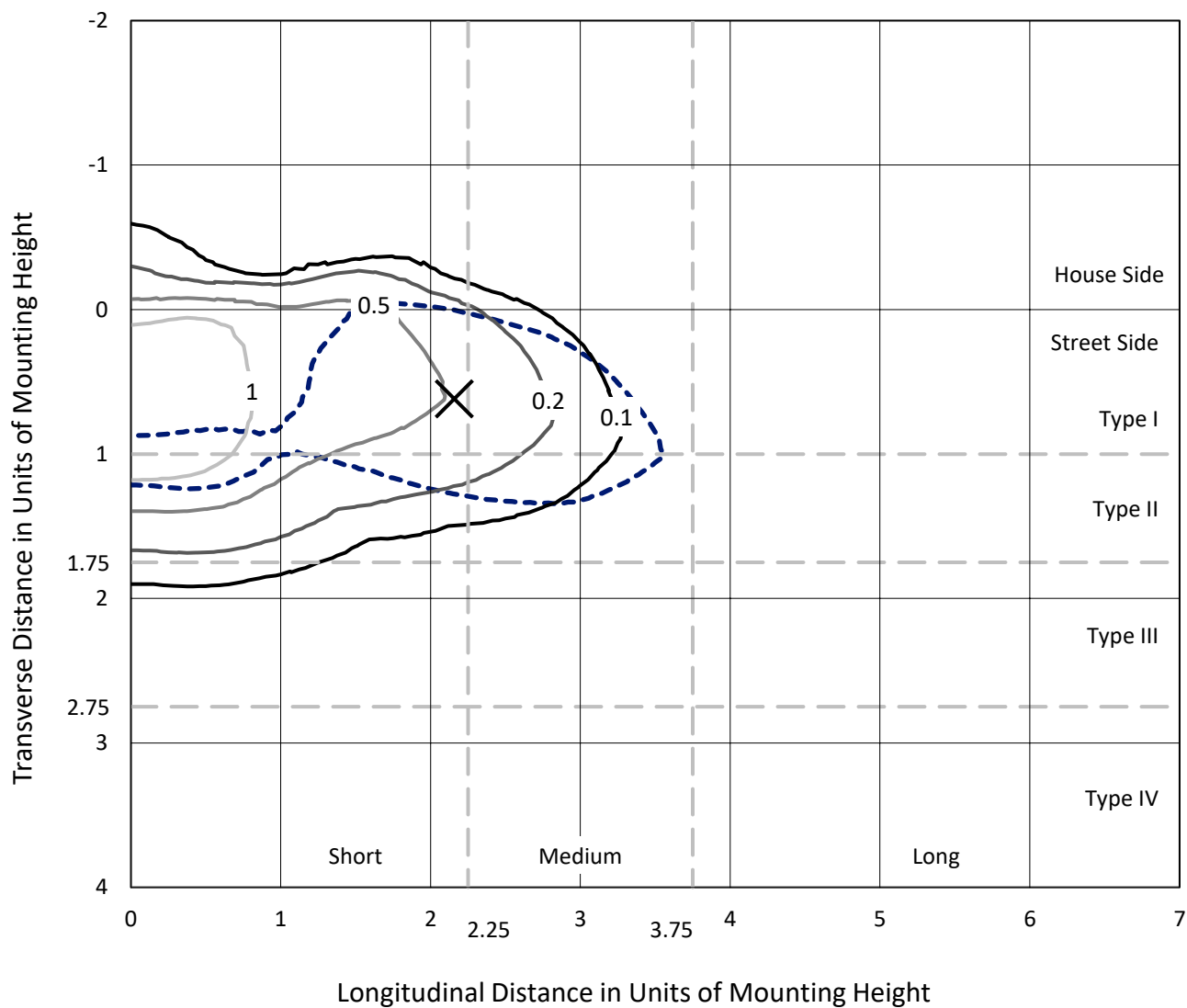
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

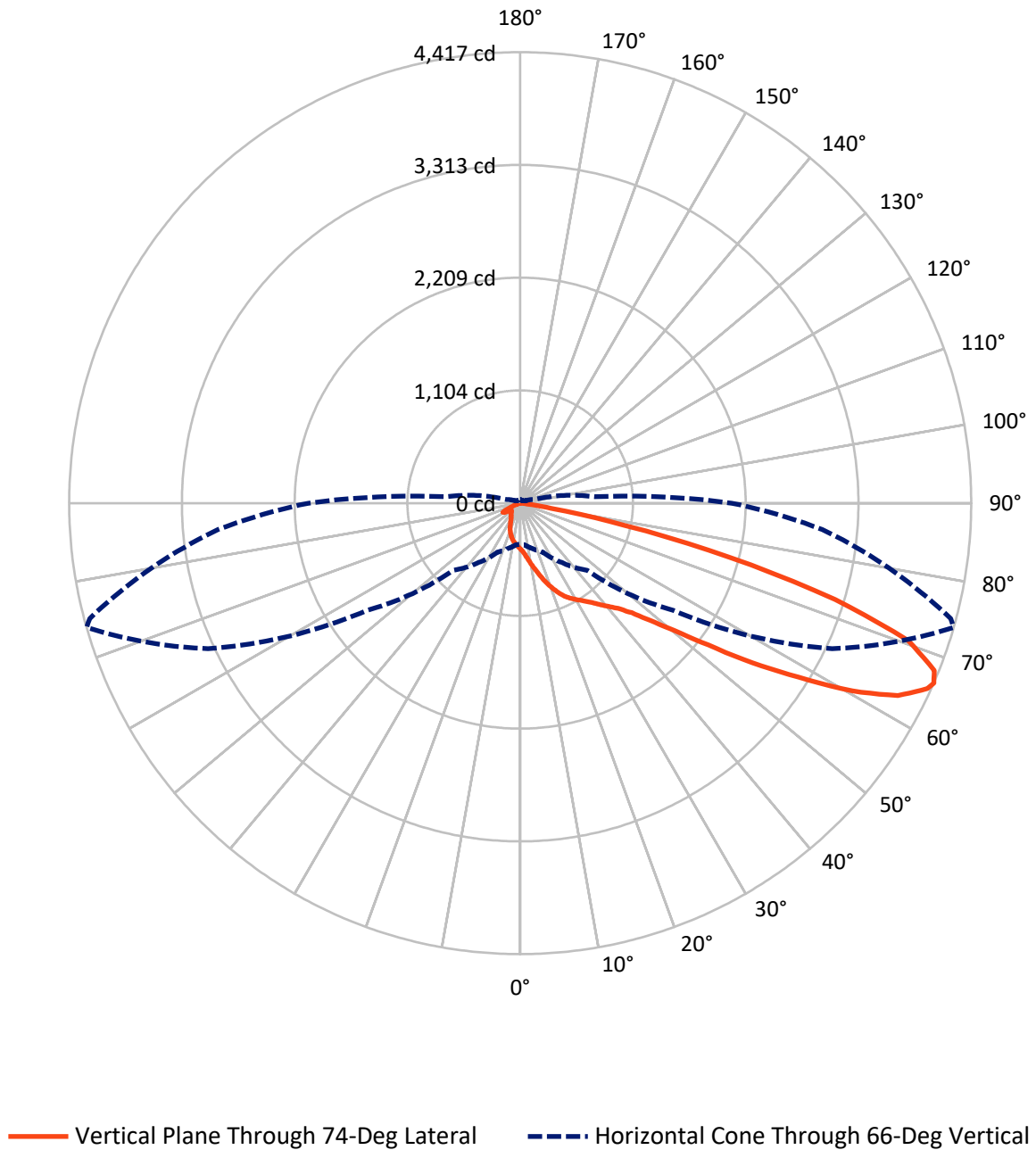
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 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	403.6	0.0	403.6
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	3713.4	0.0	3713.4
	% Fixture	90.2	0.0	90.2
Total	Lumens	4117.0	0.0	4117.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.9	1.1
10°-20°	140.6	3.4
20°-30°	268.4	6.5
30°-40°	470.4	11.4
40°-50°	806.6	19.6
50°-60°	1049.0	25.5
60°-70°	949.6	23.1
70°-80°	366.4	8.9
80°-90°	22.1	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°	4117.0	100.0
0°-180°	4117.0	100.0

Coefficient of Utilization



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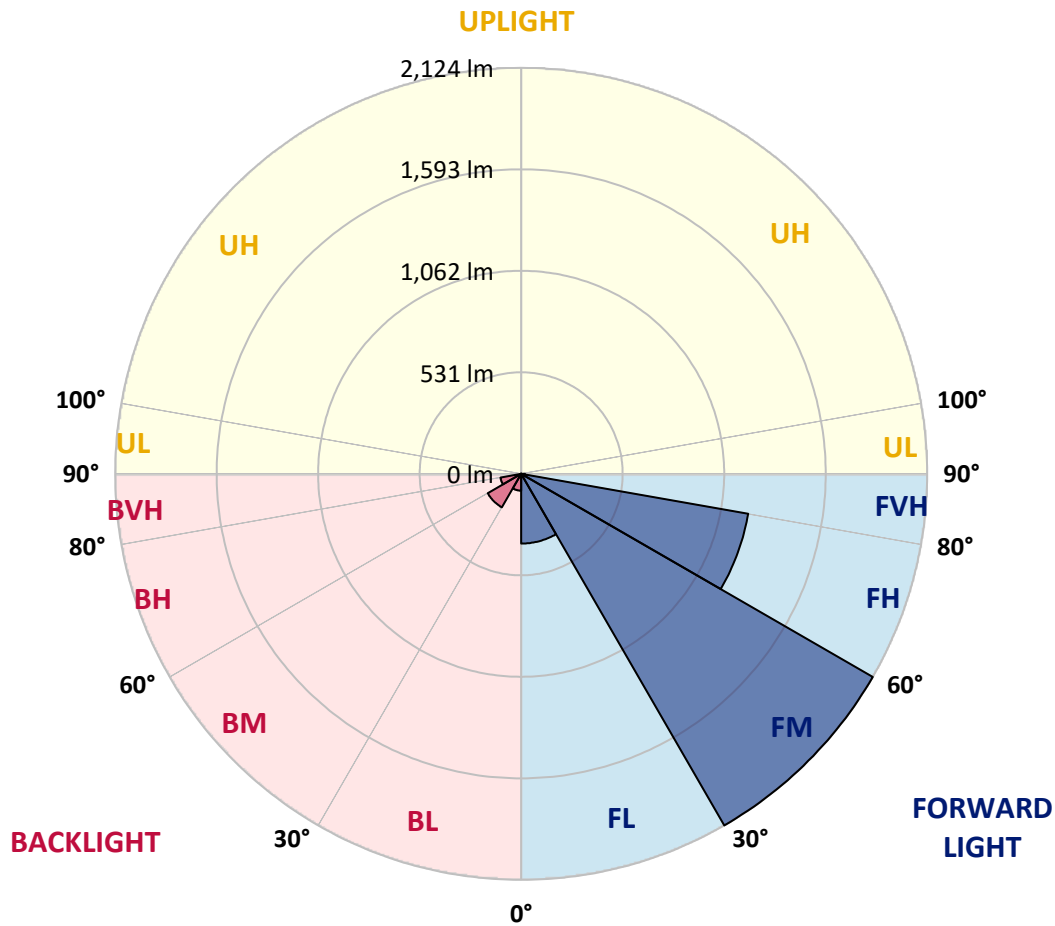
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	364.8	8.9			
FM	(30°-60°)	2123.8	51.6			
FH	(60°-80°)	1205.7	29.3			G1/1800
FVH	(80°-90°)	19.1	0.5			G1/100
BL	(0°-30°)	88.0	2.1	B0/110		
BM	(30°-60°)	202.3	4.9	B0/220		
BH	(60°-80°)	110.3	2.7	B1/500		G1/500
BVH	(80°-90°)	3.0	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°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	449.4	449.4	449.4	449.4	449.4	449.4	449.4	449.4	449.4	449.4	449.4
2.5°	539.6	535.1	527.0	526.3	519.6	511.5	497.5	482.7	472.3	470.8	458.3
5°	646.0	643.8	635.7	630.5	617.9	598.7	566.2	533.7	506.3	503.4	475.3
7.5°	674.1	675.6	677.1	682.2	677.8	668.9	644.5	598.7	555.8	549.2	500.4
10°	678.5	677.1	677.1	683.7	696.3	708.8	705.9	666.7	611.3	603.2	535.1
12.5°	726.6	728.8	723.6	720.7	718.5	725.1	747.3	730.3	669.7	663.0	577.3
15°	788.7	787.9	780.5	780.5	773.9	762.8	776.9	789.4	739.9	731.8	625.3
17.5°	833.8	836.7	836.0	840.4	838.2	823.4	816.0	841.9	812.3	802.0	680.0
20°	870.0	878.1	881.1	895.1	901.8	891.4	872.2	888.5	881.8	872.2	735.5
22.5°	908.4	915.1	920.2	944.6	963.1	960.9	936.5	932.8	949.1	940.2	790.2
25°	946.9	949.8	965.3	994.9	1024.5	1031.9	1006.7	977.9	1009.7	1001.6	838.9
27.5°	989.0	990.5	1008.9	1045.2	1086.6	1102.1	1082.1	1028.9	1056.3	1056.3	883.3
30°	1065.9	1080.6	1088.0	1120.6	1156.8	1178.2	1154.6	1082.9	1097.6	1104.3	929.9
32.5°	1231.4	1233.6	1231.4	1245.5	1252.9	1265.4	1238.1	1143.5	1139.8	1147.2	975.7
35°	1484.2	1475.4	1451.7	1431.0	1388.1	1364.5	1329.0	1221.1	1191.5	1201.9	1020.8
37.5°	1791.0	1778.4	1724.4	1660.9	1569.2	1474.6	1430.3	1315.7	1257.3	1270.6	1069.6
40°	2083.7	2075.5	2011.2	1932.9	1776.2	1614.3	1520.4	1395.5	1330.5	1335.7	1119.1
42.5°	2324.6	2323.2	2269.2	2187.2	1986.1	1765.1	1626.9	1473.9	1407.4	1415.5	1170.8
45°	2507.2	2493.2	2453.3	2394.1	2189.4	1921.8	1755.5	1592.9	1530.8	1540.4	1248.4
47.5°	2507.2	2509.4	2535.3	2529.4	2331.3	2068.9	1895.9	1742.9	1713.4	1722.2	1376.3
50°	2303.2	2323.9	2439.2	2536.0	2405.2	2183.5	2047.5	1930.7	1961.0	1974.3	1599.5
52.5°	1899.6	1934.4	2134.7	2355.7	2350.5	2241.1	2204.2	2169.4	2305.4	2329.1	1929.2
55°	1443.6	1466.5	1727.4	2017.9	2112.5	2193.8	2340.9	2472.5	2761.5	2756.3	2264.0
57.5°	1078.4	1099.9	1324.6	1646.8	1771.8	1989.1	2411.1	2819.1	3213.8	3233.8	2578.2
60°	793.1	809.4	1000.8	1265.4	1445.8	1675.7	2383.0	3160.6	3734.9	3712.0	2855.4
62.5°	586.9	595.8	734.0	906.2	1145.7	1365.2	2206.4	3394.2	4151.1	4104.5	3009.8
65°	453.8	456.8	528.5	620.2	833.0	1061.4	1943.2	3429.7	4381.0	4331.4	3006.9
66°	404.3	406.5	459.0	530.0	708.8	929.1	1827.9	3372.8	4417.2	4364.7	2969.9
67.5°	339.3	337.8	368.8	415.4	532.2	717.0	1623.2	3206.5	4374.3	4347.7	2851.7
70°	251.3	252.1	267.6	278.7	311.2	396.9	1172.3	2781.4	4031.4	4029.9	2527.2
72.5°	186.3	188.5	200.3	202.5	194.4	215.1	675.6	2212.3	3224.9	3225.7	1889.3
75°	139.7	143.4	147.1	148.6	141.2	136.0	305.3	1488.7	2121.4	2105.9	1069.6
77.5°	106.4	107.9	110.9	108.7	107.2	93.9	127.1	725.9	1047.4	954.2	346.7
80°	77.6	77.6	80.6	77.6	76.9	67.3	69.5	232.8	307.5	255.7	74.7
82.5°	48.8	48.0	50.3	49.5	48.0	42.9	40.7	65.0	71.0	63.6	36.2
85°	27.3	26.6	25.9	25.1	22.9	19.2	22.2	24.4	32.5	33.3	25.9
87.5°	9.6	9.6	8.9	8.1	6.7	6.7	8.1	8.1	11.8	11.8	13.3
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°	449.4	449.4	449.4	449.4	449.4	449.4	449.4	449.4	449.4	449.4	449.4
2.5°	452.4	444.2	432.4	416.9	405.8	394.7	382.9	376.2	366.6	364.4	367.4
5°	460.5	445.7	416.1	383.6	355.5	330.4	306.7	292.7	278.7	273.5	275.7
7.5°	477.5	452.4	402.1	349.6	303.1	265.4	237.3	221.0	208.4	203.3	204.7
10°	502.6	464.2	388.8	311.2	251.3	211.4	187.7	177.4	170.0	167.0	167.8
12.5°	532.9	481.2	371.8	272.7	207.0	172.2	161.1	158.9	157.4	156.0	156.7
15°	566.9	496.0	351.8	235.1	172.2	153.0	149.3	148.6	147.8	147.8	147.8
17.5°	602.4	509.3	329.7	199.6	150.0	141.2	139.0	139.0	139.0	139.7	139.7
20°	635.7	519.6	303.8	167.8	137.5	130.1	128.6	128.6	129.4	130.1	130.1
22.5°	668.2	524.1	273.5	145.6	127.1	120.5	118.3	118.3	118.3	119.0	119.0
25°	696.3	524.1	243.2	131.6	118.3	111.6	108.7	107.9	108.7	108.7	108.7
27.5°	719.9	521.8	213.6	122.0	109.4	102.7	99.8	99.0	100.5	101.3	101.3
30°	745.1	518.9	190.0	113.1	102.0	95.4	92.4	92.4	94.6	97.6	97.6
32.5°	769.5	521.1	171.5	105.7	94.6	89.4	86.5	87.2	91.7	96.1	96.1
35°	795.3	525.5	160.4	100.5	89.4	84.3	82.0	84.3	88.7	93.1	93.1
37.5°	821.2	530.7	153.7	96.1	85.0	79.8	78.4	81.3	86.5	90.9	91.7
40°	848.5	535.1	146.4	91.7	82.0	76.1	75.4	78.4	85.0	89.4	90.2
42.5°	882.6	544.0	137.5	88.0	79.1	71.7	72.4	74.7	81.3	88.0	88.7
45°	949.1	572.1	128.6	84.3	75.4	69.5	68.0	69.5	76.9	84.3	85.7
47.5°	1074.0	635.7	119.0	80.6	71.7	68.0	62.1	63.6	70.2	78.4	79.1
50°	1313.5	770.9	113.8	76.9	68.7	62.8	56.2	56.2	61.3	68.7	68.7
52.5°	1686.8	1013.4	116.8	73.9	65.0	57.7	51.0	50.3	53.2	58.4	58.4
55°	2089.6	1279.5	127.9	71.0	60.6	54.7	47.3	43.6	45.8	48.8	48.8
57.5°	2408.9	1413.3	158.2	69.5	55.4	52.5	42.9	37.7	39.9	42.9	42.9
60°	2549.3	1334.9	192.2	71.0	51.7	48.8	38.4	33.3	37.0	39.9	40.7
62.5°	2435.5	1099.1	206.2	67.3	46.6	43.6	37.7	31.0	35.5	37.7	38.4
65°	2189.4	835.2	161.1	58.4	42.9	37.7	34.0	29.6	33.3	35.5	35.5
66°	2072.6	728.1	137.5	54.0	41.4	35.5	32.5	29.6	32.5	34.0	34.7
67.5°	1891.5	574.3	102.0	47.3	38.4	32.5	30.3	28.1	31.0	32.5	32.5
70°	1479.0	342.2	61.3	37.0	33.3	28.8	27.3	25.9	28.1	28.8	28.8
72.5°	926.2	162.6	39.2	27.3	28.1	27.3	22.9	24.4	25.1	25.9	25.9
75°	448.7	64.3	26.6	20.0	22.9	25.9	18.5	21.4	22.2	23.7	22.9
77.5°	124.9	31.0	17.0	14.8	20.0	20.0	14.0	17.0	20.0	25.1	22.9
80°	36.2	20.0	11.1	11.1	14.0	14.0	9.6	11.8	13.3	14.8	15.5
82.5°	25.1	13.3	7.4	8.1	8.1	8.9	5.9	5.9	7.4	7.4	8.1
85°	20.0	5.9	4.4	5.2	3.7	4.4	3.0	3.0	3.7	3.0	3.0
87.5°	8.1	3.0	3.0	3.0	2.2	2.2	1.5	0.7	0.7	0.7	0.7
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)