

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: P1210166

Luminaire Tested: **ARCH2-40-722-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210166
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-40-722-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 335mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4046 lumens
Efficiency: N/A
Efficacy: 91.7 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

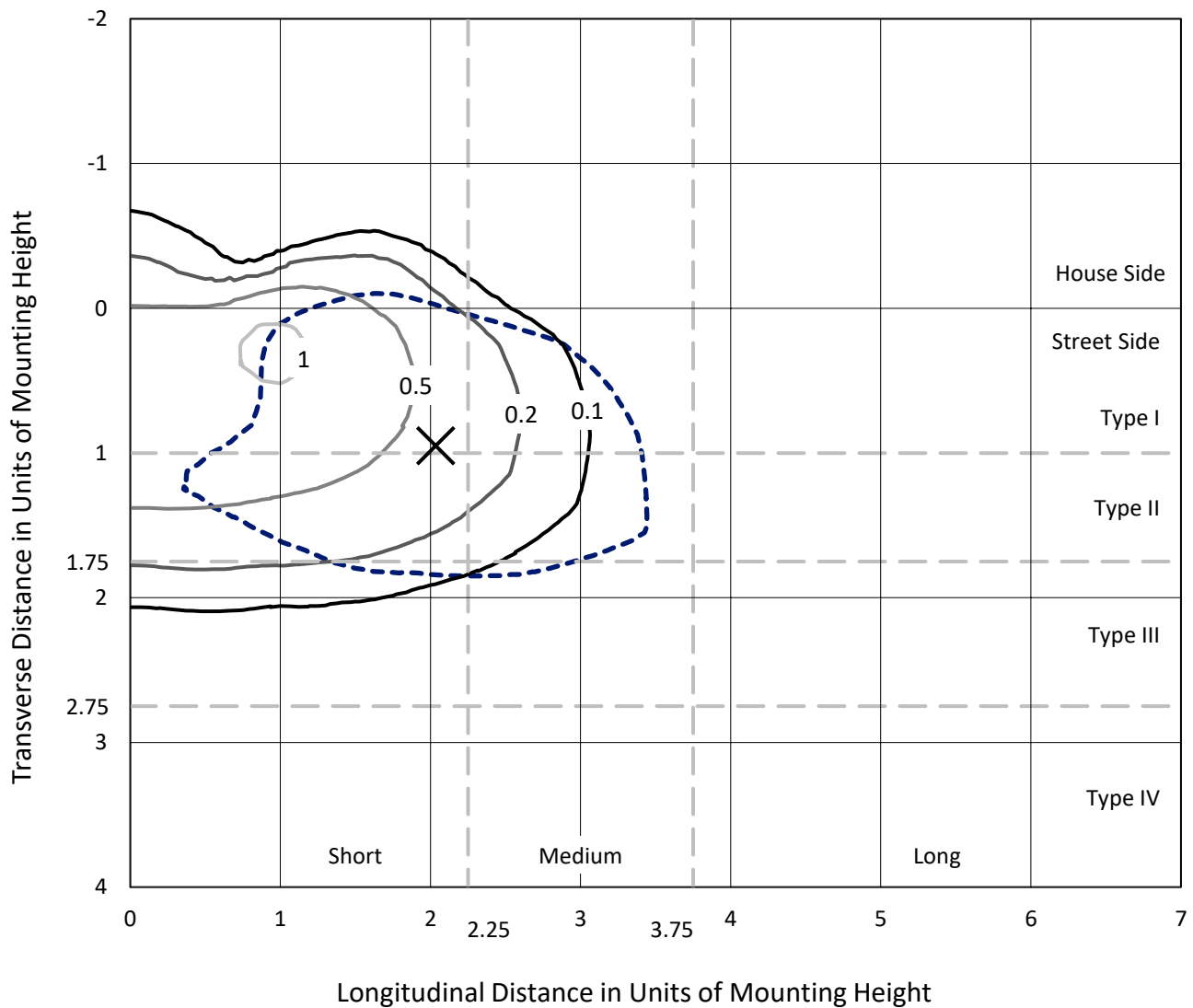
Input Watts (W): 44.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P1210166
 CATALOG NUMBER: ARCH2-40-722-U-T3RE-HSS

Iso-Footcandle Lines of Horizontal Illumination

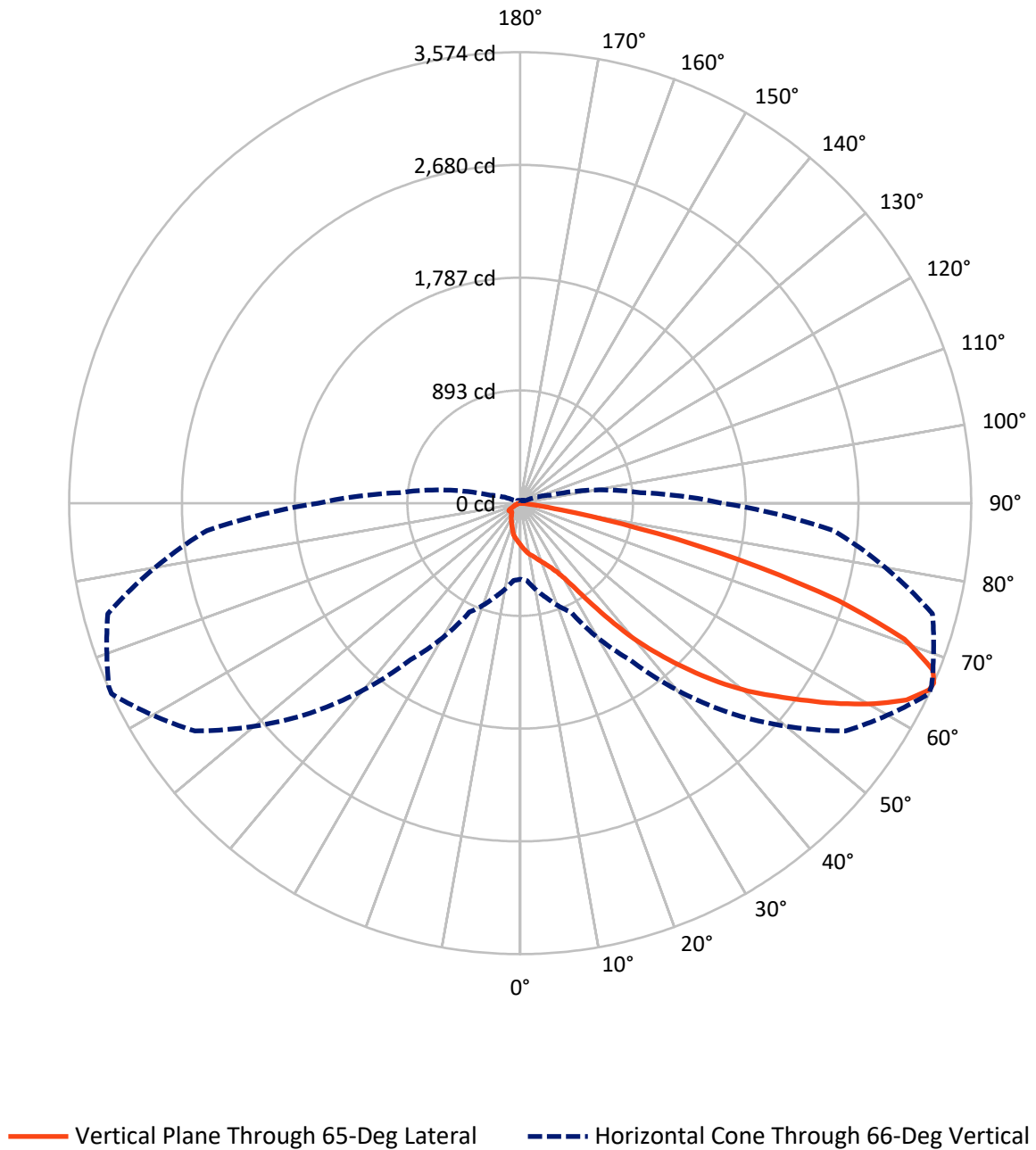
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type III - Short - N/A

REPORT NUMBER: P1210166
CATALOG NUMBER: ARCH2-40-722-U-T3RE-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P1210166

CATALOG NUMBER: ARCH2-40-722-U-T3RE-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	477.5	0.0	477.5
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	3568.5	0.0	3568.5
	% Fixture	88.2	0.0	88.2
Total	Lumens	4046.0	0.0	4046.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.3	0.8
10°-20°	92.5	2.3
20°-30°	169.3	4.2
30°-40°	344.1	8.5
40°-50°	726.6	18.0
50°-60°	1116.9	27.6
60°-70°	1124.3	27.8
70°-80°	420.1	10.4
80°-90°	21.0	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°	4046.0	100.0
0°-180°	4046.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1210166

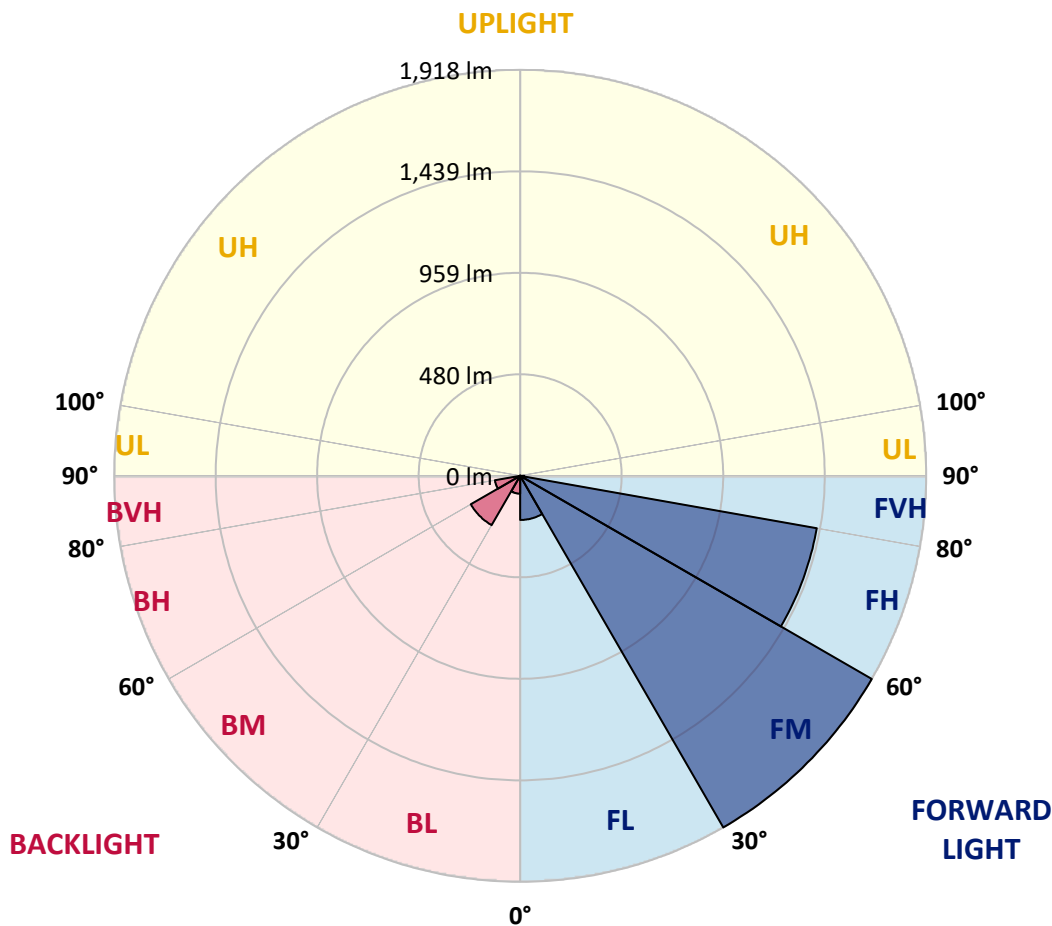
CATALOG NUMBER: ARCH2-40-722-U-T3RE-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	208.6	5.2			
FM	(30°-60°)	1918.3	47.4			
FH	(60°-80°)	1423.1	35.2			G1/1800
FVH	(80°-90°)	18.5	0.5			G1/100
BL	(0°-30°)	84.5	2.1	B0/110		
BM	(30°-60°)	269.2	6.7	B1/1000		
BH	(60°-80°)	121.3	3.0	B1/500		G1/500
BVH	(80°-90°)	2.5	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



REPORT NUMBER: P1210166

CATALOG NUMBER: ARCH2-40-722-U-T3RE-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	329.6	329.6	329.6	329.6	329.6	329.6	329.6	329.6	329.6	329.6	329.6
2.5°	375.9	376.6	375.2	372.2	369.3	365.6	359.7	350.2	348.7	342.1	334.8
5°	401.6	403.1	400.8	400.1	398.6	393.5	385.4	371.5	370.0	356.8	339.9
7.5°	410.4	412.6	411.1	411.1	411.1	408.9	405.3	392.8	390.6	373.7	348.0
10°	417.0	418.5	417.7	420.7	422.9	421.4	419.2	411.9	409.7	392.8	359.0
12.5°	427.3	428.0	428.7	430.2	433.9	435.4	434.6	428.0	426.5	414.8	373.0
15°	436.8	436.8	437.6	444.2	449.3	452.2	453.0	447.8	446.4	436.8	390.6
17.5°	445.6	446.4	448.6	455.9	464.7	470.6	474.3	472.1	469.9	462.5	411.1
20°	458.8	460.3	462.5	472.8	481.6	491.1	498.5	497.8	497.0	491.9	435.4
22.5°	481.6	483.1	486.7	496.3	505.1	516.8	529.3	528.6	526.4	522.7	464.0
25°	516.1	516.1	518.3	526.4	537.4	551.3	563.1	565.3	563.1	560.9	500.0
27.5°	559.4	560.2	560.2	569.0	579.2	596.9	611.6	613.8	613.8	611.6	548.4
30°	619.6	617.4	616.0	623.3	634.3	660.0	685.7	690.1	687.9	691.6	616.7
32.5°	723.1	719.5	707.0	708.5	715.1	750.3	793.6	809.0	808.3	814.9	726.8
35°	866.3	859.0	840.6	825.2	824.5	862.6	928.7	986.7	986.0	1008.7	894.2
37.5°	1027.8	1037.4	1002.9	976.4	968.3	998.4	1083.6	1209.2	1215.8	1255.4	1113.7
40°	1243.7	1249.5	1205.5	1168.0	1129.9	1140.9	1253.2	1448.5	1460.2	1504.3	1333.2
42.5°	1431.6	1437.5	1411.8	1366.3	1317.8	1297.3	1424.3	1665.8	1675.3	1736.3	1559.3
45°	1559.3	1563.7	1572.6	1577.0	1521.9	1479.3	1633.5	1889.0	1900.7	1971.2	1780.3
47.5°	1659.2	1662.9	1680.5	1724.5	1713.5	1679.7	1846.4	2121.0	2123.9	2202.5	1995.4
50°	1705.4	1714.2	1757.6	1825.1	1873.6	1883.1	2077.7	2340.5	2348.6	2423.4	2198.8
52.5°	1654.0	1657.0	1766.4	1893.4	1991.0	2087.9	2309.6	2543.8	2567.3	2623.1	2381.6
55°	1480.8	1502.1	1668.0	1891.2	2083.5	2282.5	2557.8	2763.4	2784.6	2819.9	2542.4
57.5°	1279.6	1303.1	1505.0	1796.5	2123.2	2462.4	2787.6	2996.8	3011.5	3021.0	2689.9
60°	1105.6	1127.7	1335.4	1615.1	2083.5	2589.4	3001.2	3228.8	3241.3	3215.6	2764.1
62.5°	892.0	914.0	1123.3	1375.1	1927.9	2615.1	3159.8	3435.1	3440.2	3370.5	2718.6
65°	672.5	687.2	861.9	1077.7	1655.5	2478.5	3195.8	3563.6	3558.4	3415.3	2582.0
66°	602.7	615.2	769.4	952.9	1513.8	2353.7	3147.3	3573.9	3568.7	3382.2	2492.5
67.5°	519.8	523.5	650.5	779.7	1266.4	2088.7	2999.8	3526.9	3531.3	3291.2	2328.7
70°	406.0	405.3	478.7	542.5	864.8	1485.9	2502.0	3231.0	3252.3	2947.6	1985.9
72.5°	259.9	251.1	293.7	331.8	503.6	862.6	1824.4	2633.4	2669.4	2315.5	1479.3
75°	154.9	146.1	156.4	165.9	241.5	414.8	1072.6	1792.1	1826.6	1484.5	880.3
77.5°	116.0	112.3	113.1	105.0	107.2	155.6	489.7	947.1	972.0	607.9	334.0
80°	88.8	79.3	74.1	77.8	70.5	61.7	182.1	326.0	341.4	143.9	69.7
82.5°	59.5	51.4	47.7	52.1	44.8	34.5	44.0	63.1	61.7	38.9	27.2
85°	30.8	26.4	26.4	26.4	22.8	16.9	19.1	25.7	25.7	20.6	16.2
87.5°	8.8	8.1	9.5	8.8	6.6	6.6	7.3	8.8	8.8	8.1	7.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1210166

CATALOG NUMBER: ARCH2-40-722-U-T3RE-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	329.6	329.6	329.6	329.6	329.6	329.6	329.6	329.6	329.6	329.6	329.6
2.5°	328.9	326.0	317.9	312.0	306.1	301.0	295.1	293.7	290.7	291.5	290.0
5°	331.1	323.0	309.1	295.9	285.6	276.8	265.8	261.4	255.5	253.3	251.8
7.5°	334.0	322.3	301.7	283.4	265.8	248.1	230.5	220.2	213.6	210.7	208.5
10°	340.6	325.2	298.1	269.4	239.3	214.4	196.8	189.4	185.0	184.3	183.5
12.5°	349.5	329.6	294.4	251.8	212.2	188.7	177.7	175.5	174.7	174.7	174.0
15°	362.7	337.0	288.5	231.3	190.9	174.7	169.6	165.9	164.5	164.5	164.5
17.5°	375.9	345.8	279.7	210.0	176.2	165.9	160.8	158.6	157.1	157.8	157.1
20°	392.8	356.1	268.0	191.6	166.7	158.6	153.4	151.2	150.5	150.5	150.5
22.5°	411.9	367.8	253.3	177.7	158.6	151.2	146.1	143.9	142.4	143.2	143.2
25°	437.6	382.5	237.9	163.7	150.5	143.9	138.0	135.1	135.1	135.8	136.6
27.5°	470.6	400.1	222.4	154.9	143.2	136.6	129.9	127.0	127.7	129.2	129.2
30°	519.0	424.3	207.0	145.4	135.1	127.7	121.9	118.9	120.4	123.3	123.3
32.5°	588.1	464.0	193.8	134.4	123.3	115.3	109.4	107.2	110.9	116.7	116.7
35°	711.4	536.7	185.7	123.3	110.9	101.3	94.0	91.8	96.9	104.2	104.2
37.5°	876.6	653.4	188.7	113.8	100.6	89.6	81.5	78.6	82.2	88.8	91.0
40°	1060.9	794.4	214.4	105.7	91.0	80.0	71.9	69.0	71.2	74.1	74.9
42.5°	1245.1	944.1	262.8	99.8	83.7	71.9	64.6	62.4	63.9	64.6	65.3
45°	1428.7	1092.4	323.8	96.2	77.1	65.3	58.0	58.0	58.7	58.7	58.7
47.5°	1602.7	1237.0	387.6	95.4	71.2	58.7	52.9	53.6	53.6	54.3	54.3
50°	1767.1	1366.3	452.2	97.6	66.1	52.9	48.5	48.5	48.5	49.2	48.5
52.5°	1904.4	1479.3	519.8	101.3	60.9	48.5	44.0	44.0	44.0	44.8	44.0
55°	2034.3	1582.1	588.8	106.5	56.5	44.8	40.4	38.9	38.9	39.6	38.9
57.5°	2140.1	1650.4	654.1	107.2	52.9	41.1	37.4	35.2	35.2	35.2	35.2
60°	2144.5	1610.7	673.2	94.0	48.5	37.4	33.8	30.8	31.6	31.6	31.6
62.5°	2004.2	1402.2	541.1	70.5	43.3	33.8	30.8	27.9	27.9	27.9	27.9
65°	1728.9	1091.0	317.2	55.8	37.4	30.1	27.2	25.0	25.0	25.0	24.2
66°	1599.7	956.6	243.0	50.7	35.2	29.4	26.4	24.2	23.5	22.8	22.8
67.5°	1389.0	756.2	152.0	44.8	32.3	27.2	24.2	22.0	21.3	20.6	20.6
70°	1046.2	480.1	74.1	34.5	27.9	23.5	21.3	19.1	18.4	17.6	16.9
72.5°	734.2	281.2	38.9	26.4	22.8	20.6	18.4	16.2	15.4	14.7	14.7
75°	414.8	135.8	25.7	19.1	18.4	16.9	15.4	13.2	12.5	12.5	12.5
77.5°	157.1	47.0	17.6	13.9	14.7	13.2	11.0	11.0	10.3	11.0	10.3
80°	41.1	20.6	11.0	10.3	11.0	9.5	8.1	8.8	8.8	8.8	8.8
82.5°	22.0	11.7	6.6	7.3	6.6	6.6	5.1	5.9	6.6	5.9	6.6
85°	15.4	5.9	3.7	3.7	2.9	2.9	2.2	2.9	3.7	2.9	2.9
87.5°	8.1	2.2	2.2	2.2	2.2	1.5	0.7	0.0	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)