

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: P1209946

Luminaire Tested: **ARCH1-30-727-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1209946
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: ARCH1-30-727-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 950mA LIGHTSQUARE WITH 10 LEDS AND TYPE III ROADWAY
ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

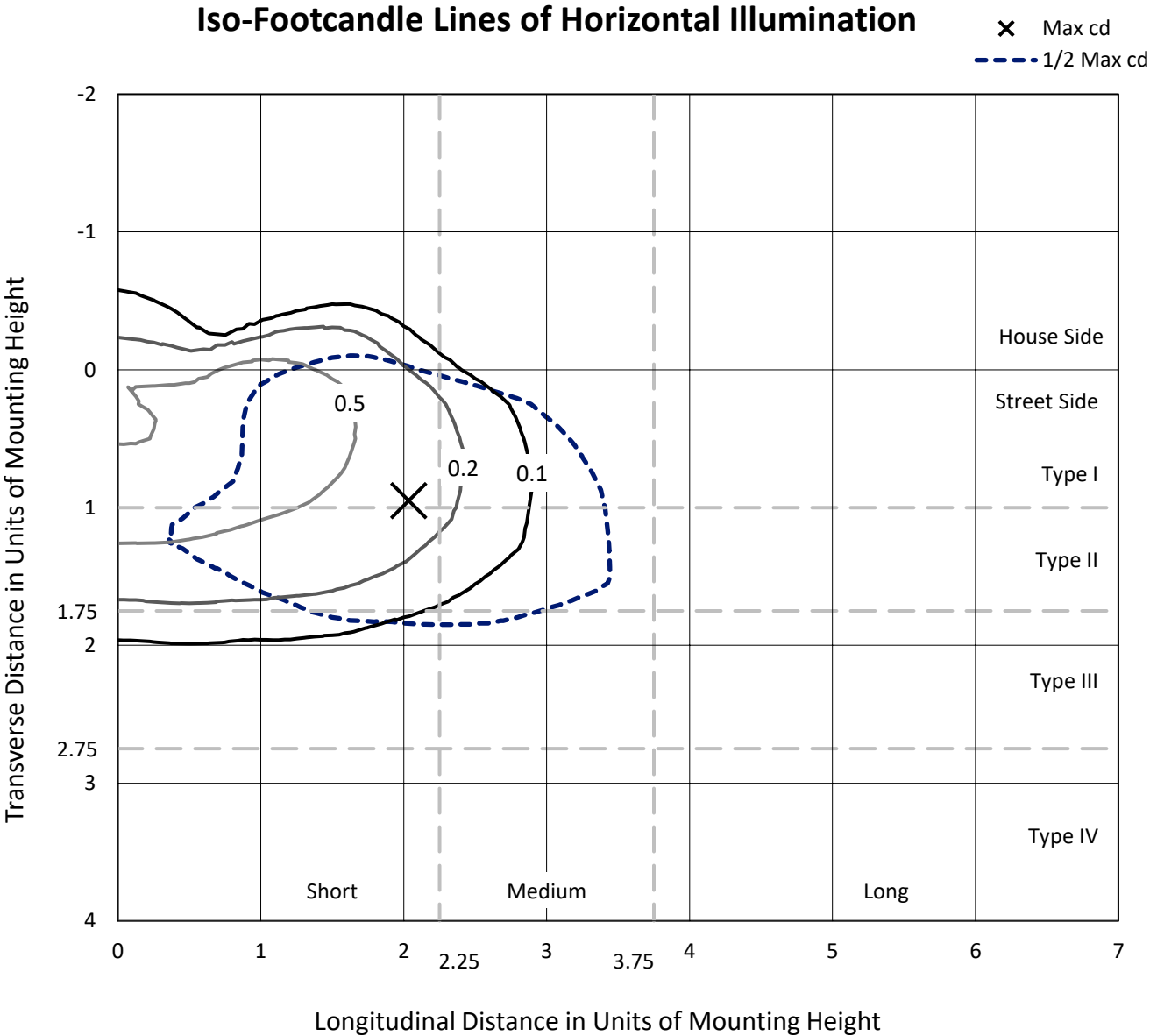
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3151 lumens
Efficiency: N/A
Efficacy: 95.5 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 33
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



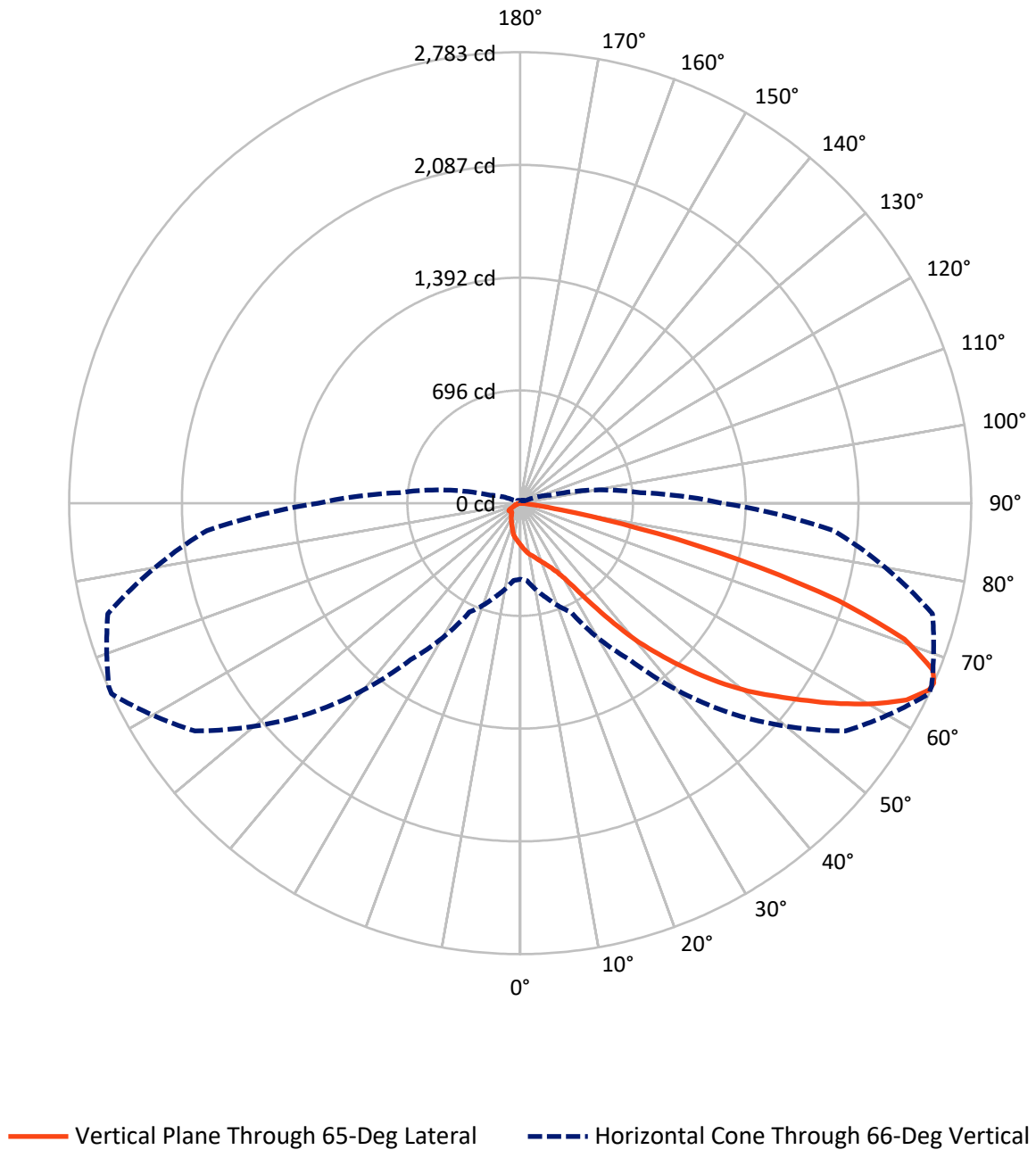
REPORT NUMBER: P1209946
CATALOG NUMBER: ARCH1-30-727-U-T3RE-HSS



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
Type III - Short - N/A

REPORT NUMBER: P1209946
CATALOG NUMBER: ARCH1-30-727-U-T3RE-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P1209946

CATALOG NUMBER: ARCH1-30-727-U-T3RE-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	371.9	0.0	371.9
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	2779.1	0.0	2779.1
	% Fixture	88.2	0.0	88.2
Total	Lumens	3151.0	0.0	3151.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.3	0.8
10°-20°	72.0	2.3
20°-30°	131.9	4.2
30°-40°	267.9	8.5
40°-50°	565.8	18.0
50°-60°	869.9	27.6
60°-70°	875.6	27.8
70°-80°	327.2	10.4
80°-90°	16.3	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°	3151.0	100.0
0°-180°	3151.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1209946

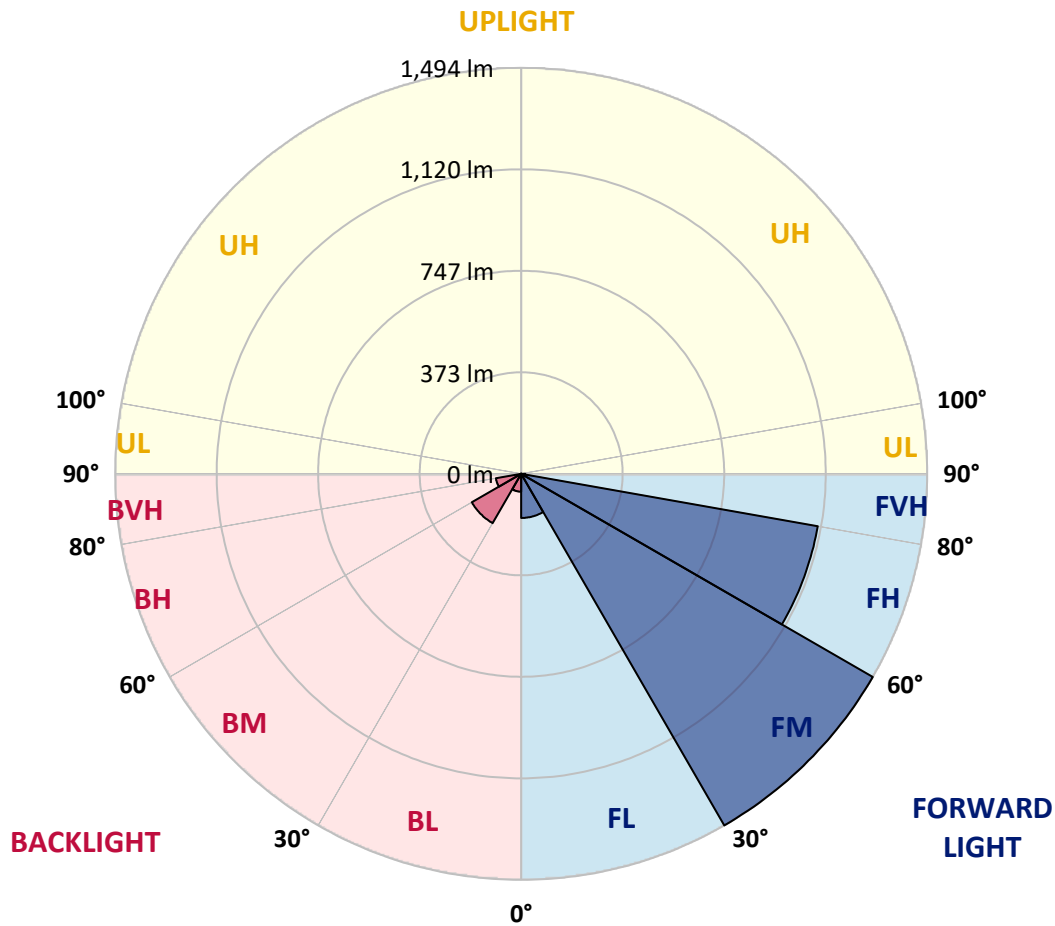
CATALOG NUMBER: ARCH1-30-727-U-T3RE-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	162.4	5.2			
FM	(30°-60°)	1494.0	47.4			
FH	(60°-80°)	1108.3	35.2			G1/1800
FVH	(80°-90°)	14.4	0.5			G1/100
BL	(0°-30°)	65.8	2.1	B0/110		
BM	(30°-60°)	209.7	6.7	B0/220		
BH	(60°-80°)	94.5	3.0	B0/110		G0/110
BVH	(80°-90°)	1.9	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 III Short



REPORT NUMBER: P1209946

CATALOG NUMBER: ARCH1-30-727-U-T3RE-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	256.7	256.7	256.7	256.7	256.7	256.7	256.7	256.7	256.7	256.7	256.7
2.5°	292.7	293.3	292.2	289.9	287.6	284.7	280.2	272.7	271.6	266.4	260.7
5°	312.7	313.9	312.2	311.6	310.5	306.5	300.2	289.3	288.2	277.9	264.7
7.5°	319.6	321.3	320.2	320.2	320.2	318.5	315.6	305.9	304.2	291.0	271.0
10°	324.8	325.9	325.3	327.6	329.3	328.2	326.5	320.8	319.0	305.9	279.6
12.5°	332.8	333.3	333.9	335.0	337.9	339.1	338.5	333.3	332.2	323.0	290.5
15°	340.2	340.2	340.8	345.9	349.9	352.2	352.8	348.8	347.6	340.2	304.2
17.5°	347.1	347.6	349.3	355.1	361.9	366.5	369.4	367.6	365.9	360.2	320.2
20°	357.3	358.5	360.2	368.2	375.1	382.5	388.2	387.6	387.1	383.1	339.1
22.5°	375.1	376.2	379.1	386.5	393.4	402.5	412.2	411.7	409.9	407.1	361.3
25°	401.9	401.9	403.7	409.9	418.5	429.4	438.5	440.3	438.5	436.8	389.4
27.5°	435.7	436.2	436.2	443.1	451.1	464.8	476.3	478.0	478.0	476.3	427.1
30°	482.6	480.8	479.7	485.4	494.0	514.0	534.0	537.4	535.7	538.6	480.3
32.5°	563.2	560.3	550.6	551.7	556.9	584.3	618.1	630.1	629.5	634.6	566.0
35°	674.7	669.0	654.7	642.7	642.1	671.8	723.3	768.4	767.9	785.6	696.4
37.5°	800.5	807.9	781.0	760.4	754.1	777.6	843.9	941.7	946.8	977.7	867.4
40°	968.6	973.1	938.8	909.7	879.9	888.5	976.0	1128.1	1137.2	1171.5	1038.3
42.5°	1114.9	1119.5	1099.5	1064.0	1026.3	1010.3	1109.2	1297.3	1304.7	1352.2	1214.4
45°	1214.4	1217.8	1224.7	1228.1	1185.2	1152.1	1272.2	1471.1	1480.3	1535.2	1386.5
47.5°	1292.2	1295.0	1308.7	1343.1	1334.5	1308.2	1438.0	1651.8	1654.1	1715.3	1554.0
50°	1328.2	1335.0	1368.8	1421.4	1459.1	1466.6	1618.1	1822.8	1829.0	1887.4	1712.4
52.5°	1288.2	1290.5	1375.6	1474.6	1550.6	1626.1	1798.7	1981.1	1999.4	2042.9	1854.8
55°	1153.2	1169.8	1299.0	1472.8	1622.6	1777.6	1992.0	2152.1	2168.7	2196.1	1980.0
57.5°	996.6	1014.9	1172.1	1399.1	1653.5	1917.7	2171.0	2333.9	2345.3	2352.8	2094.9
60°	861.1	878.2	1040.0	1257.9	1622.6	2016.6	2337.3	2514.6	2524.3	2504.3	2152.7
62.5°	694.7	711.8	874.8	1070.9	1501.4	2036.6	2460.8	2675.2	2679.2	2624.9	2117.2
65°	523.7	535.2	671.2	839.3	1289.3	1930.2	2488.8	2775.3	2771.3	2659.8	2010.9
66°	469.4	479.1	599.2	742.1	1179.0	1833.0	2451.1	2783.3	2779.3	2634.1	1941.1
67.5°	404.8	407.7	506.6	607.2	986.3	1626.6	2336.2	2746.7	2750.1	2563.2	1813.6
70°	316.2	315.6	372.8	422.5	673.5	1157.2	1948.5	2516.3	2532.9	2295.6	1546.6
72.5°	202.4	195.5	228.7	258.4	392.2	671.8	1420.8	2050.9	2078.9	1803.3	1152.1
75°	120.6	113.8	121.8	129.2	188.1	323.0	835.3	1395.7	1422.5	1156.1	685.5
77.5°	90.3	87.5	88.1	81.8	83.5	121.2	381.4	737.6	757.0	473.4	260.1
80°	69.2	61.7	57.7	60.6	54.9	48.0	141.8	253.9	265.9	112.1	54.3
82.5°	46.3	40.0	37.2	40.6	34.9	26.9	34.3	49.2	48.0	30.3	21.2
85°	24.0	20.6	20.6	20.6	17.7	13.2	14.9	20.0	20.0	16.0	12.6
87.5°	6.9	6.3	7.4	6.9	5.1	5.1	5.7	6.9	6.9	6.3	5.7
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: P1209946

CATALOG NUMBER: ARCH1-30-727-U-T3RE-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	256.7	256.7	256.7	256.7	256.7	256.7	256.7	256.7	256.7	256.7	256.7
2.5°	256.1	253.9	247.6	243.0	238.4	234.4	229.8	228.7	226.4	227.0	225.8
5°	257.9	251.6	240.7	230.4	222.4	215.6	207.0	203.5	199.0	197.3	196.1
7.5°	260.1	251.0	235.0	220.7	207.0	193.3	179.5	171.5	166.4	164.1	162.4
10°	265.3	253.3	232.1	209.8	186.4	167.0	153.2	147.5	144.1	143.5	142.9
12.5°	272.2	256.7	229.3	196.1	165.2	146.9	138.4	136.6	136.1	136.1	135.5
15°	282.4	262.4	224.7	180.1	148.7	136.1	132.1	129.2	128.1	128.1	128.1
17.5°	292.7	269.3	217.8	163.5	137.2	129.2	125.2	123.5	122.4	122.9	122.4
20°	305.9	277.3	208.7	149.2	129.8	123.5	119.5	117.8	117.2	117.2	117.2
22.5°	320.8	286.4	197.3	138.4	123.5	117.8	113.8	112.1	110.9	111.5	111.5
25°	340.8	297.9	185.2	127.5	117.2	112.1	107.5	105.2	105.2	105.8	106.3
27.5°	366.5	311.6	173.2	120.6	111.5	106.3	101.2	98.9	99.5	100.6	100.6
30°	404.2	330.5	161.2	113.2	105.2	99.5	94.9	92.6	93.8	96.1	96.1
32.5°	458.0	361.3	150.9	104.6	96.1	89.8	85.2	83.5	86.3	90.9	90.9
35°	554.0	418.0	144.7	96.1	86.3	78.9	73.2	71.5	75.5	81.2	81.2
37.5°	682.7	508.9	146.9	88.6	78.3	69.8	63.5	61.2	64.0	69.2	70.9
40°	826.2	618.6	167.0	82.3	70.9	62.3	56.0	53.7	55.5	57.7	58.3
42.5°	969.7	735.3	204.7	77.8	65.2	56.0	50.3	48.6	49.7	50.3	50.9
45°	1112.6	850.8	252.1	74.9	60.0	50.9	45.2	45.2	45.7	45.7	45.7
47.5°	1248.1	963.4	301.9	74.3	55.5	45.7	41.2	41.7	41.7	42.3	42.3
50°	1376.2	1064.0	352.2	76.0	51.5	41.2	37.7	37.7	37.7	38.3	37.7
52.5°	1483.1	1152.1	404.8	78.9	47.5	37.7	34.3	34.3	34.3	34.9	34.3
55°	1584.3	1232.1	458.5	82.9	44.0	34.9	31.4	30.3	30.3	30.9	30.3
57.5°	1666.7	1285.3	509.4	83.5	41.2	32.0	29.2	27.4	27.4	27.4	27.4
60°	1670.1	1254.4	524.3	73.2	37.7	29.2	26.3	24.0	24.6	24.6	24.6
62.5°	1560.9	1092.1	421.4	54.9	33.7	26.3	24.0	21.7	21.7	21.7	21.7
65°	1346.5	849.6	247.0	43.5	29.2	23.4	21.2	19.4	19.4	19.4	18.9
66°	1245.9	745.0	189.3	39.5	27.4	22.9	20.6	18.9	18.3	17.7	17.7
67.5°	1081.8	588.9	118.4	34.9	25.2	21.2	18.9	17.2	16.6	16.0	16.0
70°	814.8	373.9	57.7	26.9	21.7	18.3	16.6	14.9	14.3	13.7	13.2
72.5°	571.8	219.0	30.3	20.6	17.7	16.0	14.3	12.6	12.0	11.4	11.4
75°	323.0	105.8	20.0	14.9	14.3	13.2	12.0	10.3	9.7	9.7	9.7
77.5°	122.4	36.6	13.7	10.9	11.4	10.3	8.6	8.6	8.0	8.6	8.0
80°	32.0	16.0	8.6	8.0	8.6	7.4	6.3	6.9	6.9	6.9	6.9
82.5°	17.2	9.1	5.1	5.7	5.1	5.1	4.0	4.6	5.1	4.6	5.1
85°	12.0	4.6	2.9	2.9	2.3	2.3	1.7	2.3	2.9	2.3	2.3
87.5°	6.3	1.7	1.7	1.7	1.7	1.1	0.6	0.0	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)