

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: P1210212

Luminaire Tested: **ARCH2-50-740-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210212
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: ARCH2-50-740-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 410mA 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: 5916 lumens
Efficiency: N/A
Efficacy: 109.6 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): 54
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

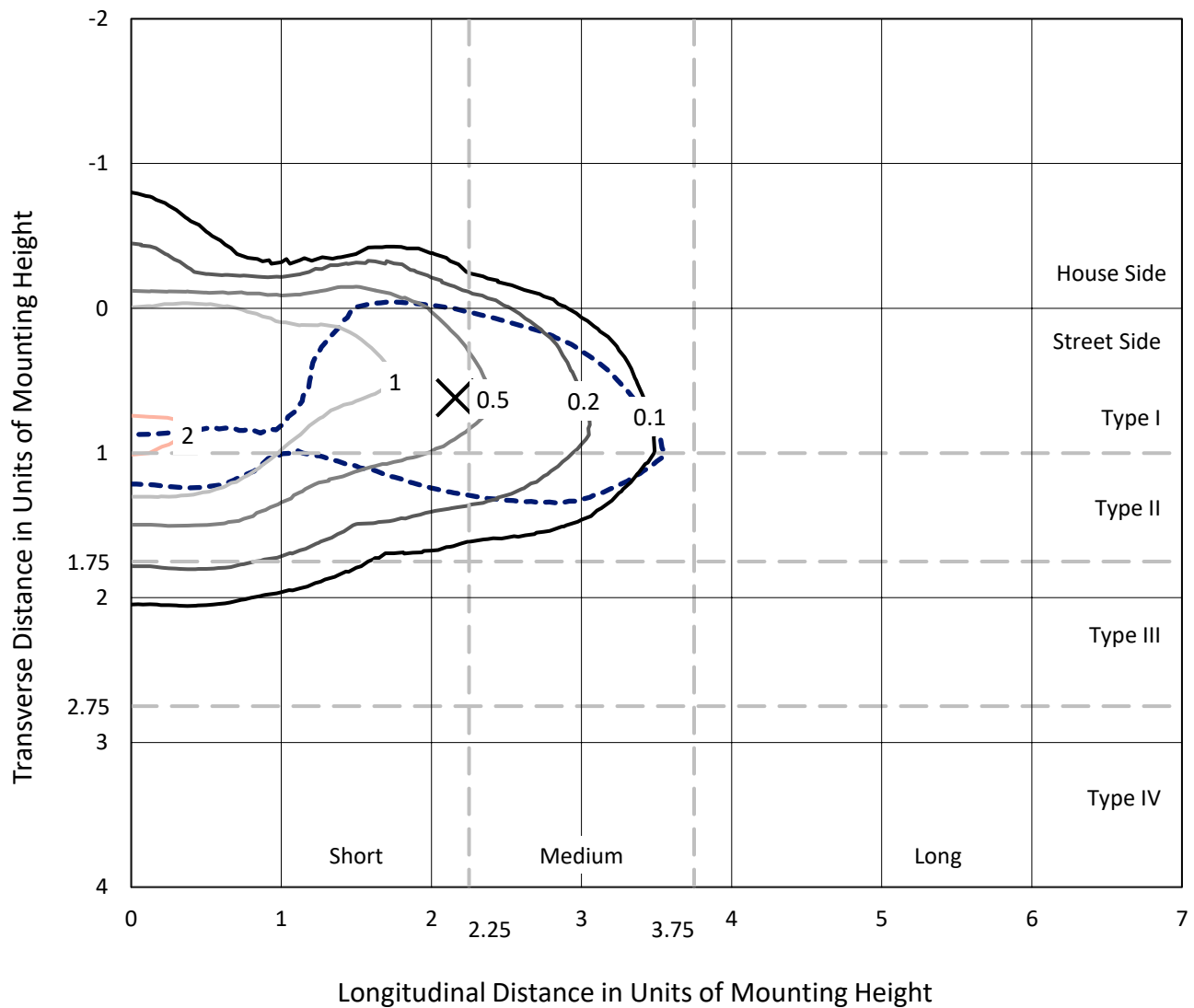


REPORT NUMBER: P1210212

CATALOG NUMBER: ARCH2-50-740-U-T2RE-HSS

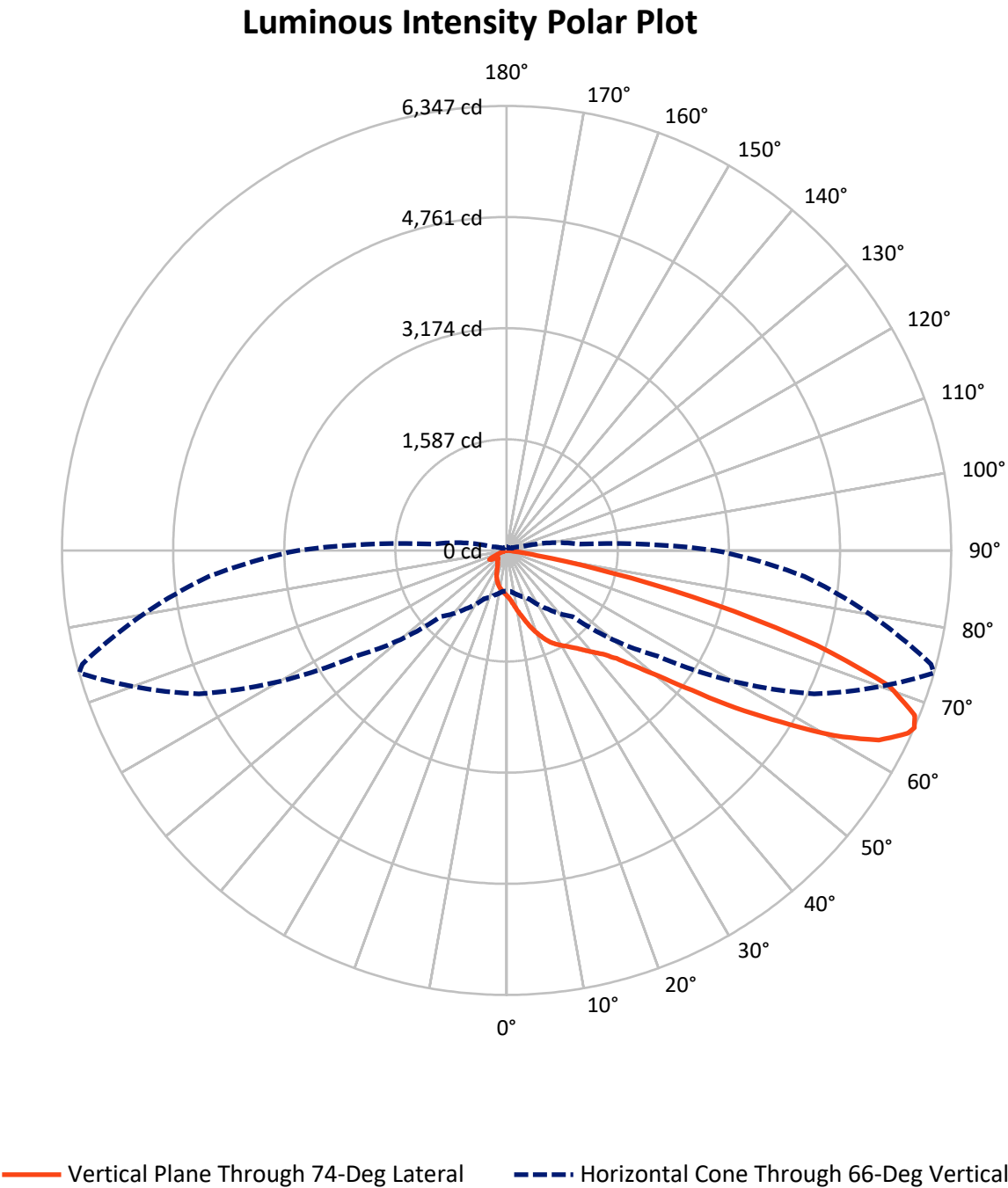
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
Type II - Short - N/A

REPORT NUMBER: P1210212
CATALOG NUMBER: ARCH2-50-740-U-T2RE-HSS



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CATALOG NUMBER: ARCH2-50-740-U-T2RE-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	580.0	0.0	580.0
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	5336.0	0.0	5336.0
	% Fixture	90.2	0.0	90.2
Total	Lumens	5916.0	0.0	5916.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.0	1.1
10°-20°	202.1	3.4
20°-30°	385.6	6.5
30°-40°	675.9	11.4
40°-50°	1159.1	19.6
50°-60°	1507.4	25.5
60°-70°	1364.6	23.1
70°-80°	526.5	8.9
80°-90°	31.7	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°	5916.0	100.0
0°-180°	5916.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1210212

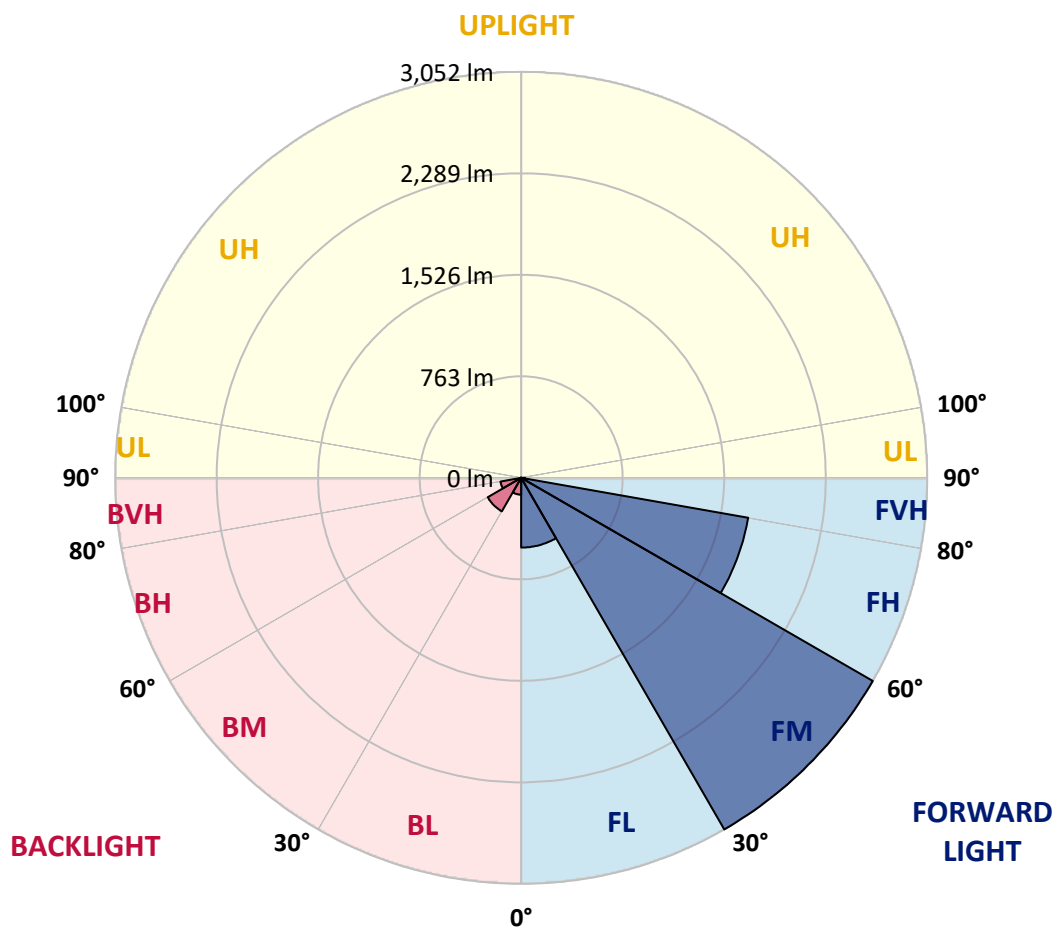
CATALOG NUMBER: ARCH2-50-740-U-T2RE-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	524.2	8.9			
FM	(30°-60°)	3051.8	51.6			
FH	(60°-80°)	1732.6	29.3			G1/1800
FVH	(80°-90°)	27.4	0.5			G1/100
BL	(0°-30°)	126.5	2.1	B1/500		
BM	(30°-60°)	290.7	4.9	B1/1000		
BH	(60°-80°)	158.6	2.7	B1/500		G1/500
BVH	(80°-90°)	4.2	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



REPORT NUMBER: P1210212

CATALOG NUMBER: ARCH2-50-740-U-T2RE-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	645.8	645.8	645.8	645.8	645.8	645.8	645.8	645.8	645.8	645.8	645.8
2.5°	775.4	769.0	757.3	756.2	746.7	735.0	714.8	693.6	678.7	676.6	658.5
5°	928.3	925.1	913.4	906.0	888.0	860.3	813.6	766.9	727.6	723.3	683.0
7.5°	968.7	970.8	972.9	980.4	974.0	961.2	926.2	860.3	798.7	789.2	719.1
10°	975.0	972.9	972.9	982.5	1000.5	1018.6	1014.3	958.1	878.4	866.7	769.0
12.5°	1044.1	1047.3	1039.8	1035.6	1032.4	1042.0	1073.8	1049.4	962.3	952.7	829.5
15°	1133.3	1132.2	1121.6	1121.6	1112.1	1096.1	1116.3	1134.4	1063.2	1051.5	898.6
17.5°	1198.1	1202.3	1201.3	1207.7	1204.5	1183.2	1172.6	1209.8	1167.3	1152.4	977.2
20°	1250.1	1261.8	1266.1	1286.3	1295.8	1280.9	1253.3	1276.7	1267.1	1253.3	1056.8
22.5°	1305.4	1314.9	1322.4	1357.4	1384.0	1380.8	1345.7	1340.4	1363.8	1351.0	1135.4
25°	1360.6	1364.9	1387.2	1429.6	1472.1	1482.8	1446.6	1405.2	1450.9	1439.2	1205.5
27.5°	1421.1	1423.3	1449.8	1501.9	1561.3	1583.7	1555.0	1478.5	1517.8	1517.8	1269.3
30°	1531.6	1552.9	1563.5	1610.2	1662.3	1693.1	1659.1	1556.0	1577.3	1586.8	1336.2
32.5°	1769.5	1772.7	1769.5	1789.7	1800.3	1818.4	1779.1	1643.1	1637.8	1648.4	1402.0
35°	2132.8	2120.0	2086.0	2056.3	1994.7	1960.7	1909.7	1754.7	1712.2	1727.0	1466.8
37.5°	2573.6	2555.5	2478.0	2386.6	2254.9	2119.0	2055.2	1890.6	1806.7	1825.8	1536.9
40°	2994.2	2982.5	2890.1	2777.5	2552.3	2319.7	2184.8	2005.3	1911.9	1919.3	1608.1
42.5°	3340.4	3338.3	3260.8	3142.9	2854.0	2536.4	2337.8	2117.9	2022.3	2034.0	1682.4
45°	3602.8	3582.6	3525.3	3440.3	3146.1	2761.6	2522.6	2288.9	2199.7	2213.5	1794.0
47.5°	3602.8	3606.0	3643.1	3634.7	3350.0	2972.9	2724.4	2504.5	2462.0	2474.8	1977.7
50°	3309.6	3339.4	3505.1	3644.2	3456.2	3137.6	2942.1	2774.3	2817.9	2837.0	2298.5
52.5°	2729.7	2779.6	3067.5	3385.0	3377.6	3220.4	3167.3	3117.4	3312.8	3346.8	2772.2
55°	2074.4	2107.3	2482.2	2899.6	3035.6	3152.4	3363.8	3552.9	3968.2	3960.7	3253.3
57.5°	1549.7	1580.5	1903.4	2366.5	2546.0	2858.2	3464.7	4051.0	4618.2	4646.9	3704.8
60°	1139.7	1163.0	1438.1	1818.4	2077.6	2407.9	3424.3	4541.7	5367.0	5334.1	4103.1
62.5°	843.3	856.1	1054.7	1302.2	1646.3	1961.8	3170.5	4877.4	5965.0	5898.1	4325.0
65°	652.2	656.4	759.4	891.1	1197.0	1525.2	2792.4	4928.3	6295.3	6224.2	4320.8
66°	581.0	584.2	659.6	761.6	1018.6	1335.1	2626.7	4846.6	6347.4	6272.0	4267.7
67.5°	487.5	485.4	530.0	596.9	764.7	1030.3	2332.5	4607.6	6285.8	6247.5	4097.7
70°	361.1	362.2	384.5	400.4	447.2	570.4	1684.6	3996.8	5792.9	5790.8	3631.5
72.5°	267.7	270.8	287.8	291.0	279.3	309.1	970.8	3179.0	4634.1	4635.2	2714.8
75°	200.7	206.1	211.4	213.5	202.9	195.4	438.7	2139.2	3048.3	3026.0	1536.9
77.5°	152.9	155.1	159.3	156.1	154.0	134.9	182.7	1043.0	1505.1	1371.2	498.1
80°	111.5	111.5	115.8	111.5	110.5	96.7	99.8	334.6	441.9	367.5	107.3
82.5°	70.1	69.0	72.2	71.2	69.0	61.6	58.4	93.5	102.0	91.3	52.0
85°	39.3	38.2	37.2	36.1	32.9	27.6	31.9	35.1	46.7	47.8	37.2
87.5°	13.8	13.8	12.7	11.7	9.6	9.6	11.7	11.7	17.0	17.0	19.1
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: P1210212

CATALOG NUMBER: ARCH2-50-740-U-T2RE-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	645.8	645.8	645.8	645.8	645.8	645.8	645.8	645.8	645.8	645.8	645.8
2.5°	650.0	638.3	621.4	599.0	583.1	567.2	550.2	540.6	526.8	523.6	527.9
5°	661.7	640.5	598.0	551.3	510.9	474.8	440.8	420.6	400.4	393.0	396.2
7.5°	686.1	650.0	577.8	502.4	435.5	381.3	340.9	317.6	299.5	292.1	294.2
10°	722.3	667.0	558.7	447.2	361.1	303.8	269.8	254.9	244.3	240.0	241.1
12.5°	765.8	691.5	534.3	391.9	297.4	247.5	231.5	228.4	226.2	224.1	225.2
15°	814.7	712.7	505.6	337.8	247.5	219.9	214.6	213.5	212.4	212.4	212.4
17.5°	865.6	731.8	473.7	286.8	215.6	202.9	199.7	199.7	199.7	200.7	200.7
20°	913.4	746.7	436.5	241.1	197.6	186.9	184.8	184.8	185.9	186.9	186.9
22.5°	960.2	753.1	393.0	209.2	182.7	173.1	169.9	169.9	169.9	171.0	171.0
25°	1000.5	753.1	349.4	189.1	169.9	160.4	156.1	155.1	156.1	156.1	156.1
27.5°	1034.5	749.9	307.0	175.3	157.2	147.6	143.4	142.3	144.5	145.5	145.5
30°	1070.6	745.6	273.0	162.5	146.6	137.0	132.8	132.8	136.0	140.2	140.2
32.5°	1105.7	748.8	246.4	151.9	136.0	128.5	124.3	125.3	131.7	138.1	138.1
35°	1142.9	755.2	230.5	144.5	128.5	121.1	117.9	121.1	127.5	133.8	133.8
37.5°	1180.0	762.6	220.9	138.1	122.1	114.7	112.6	116.8	124.3	130.6	131.7
40°	1219.3	769.0	210.3	131.7	117.9	109.4	108.3	112.6	122.1	128.5	129.6
42.5°	1268.2	781.7	197.6	126.4	113.6	103.0	104.1	107.3	116.8	126.4	127.5
45°	1363.8	822.1	184.8	121.1	108.3	99.8	97.7	99.8	110.5	121.1	123.2
47.5°	1543.3	913.4	171.0	115.8	103.0	97.7	89.2	91.3	100.9	112.6	113.6
50°	1887.4	1107.8	163.6	110.5	98.8	90.3	80.7	80.7	88.2	98.8	98.8
52.5°	2423.8	1456.2	167.8	106.2	93.5	82.8	73.3	72.2	76.5	83.9	83.9
55°	3002.7	1838.6	183.8	102.0	87.1	78.6	68.0	62.7	65.9	70.1	70.1
57.5°	3461.5	2030.8	227.3	99.8	79.7	75.4	61.6	54.2	57.4	61.6	61.6
60°	3663.3	1918.2	276.2	102.0	74.3	70.1	55.2	47.8	53.1	57.4	58.4
62.5°	3499.8	1579.4	296.3	96.7	66.9	62.7	54.2	44.6	51.0	54.2	55.2
65°	3146.1	1200.2	231.5	83.9	61.6	54.2	48.9	42.5	47.8	51.0	51.0
66°	2978.2	1046.2	197.6	77.5	59.5	51.0	46.7	42.5	46.7	48.9	49.9
67.5°	2718.0	825.3	146.6	68.0	55.2	46.7	43.5	40.4	44.6	46.7	46.7
70°	2125.3	491.8	88.2	53.1	47.8	41.4	39.3	37.2	40.4	41.4	41.4
72.5°	1330.9	233.7	56.3	39.3	40.4	39.3	32.9	35.1	36.1	37.2	37.2
75°	644.7	92.4	38.2	28.7	32.9	37.2	26.6	30.8	31.9	34.0	32.9
77.5°	179.5	44.6	24.4	21.2	28.7	28.7	20.2	24.4	28.7	36.1	32.9
80°	52.0	28.7	15.9	15.9	20.2	20.2	13.8	17.0	19.1	21.2	22.3
82.5°	36.1	19.1	10.6	11.7	11.7	12.7	8.5	8.5	10.6	10.6	11.7
85°	28.7	8.5	6.4	7.4	5.3	6.4	4.2	4.2	5.3	4.2	4.2
87.5°	11.7	4.2	4.2	4.2	3.2	3.2	2.1	1.1	1.1	1.1	1.1
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)