

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: P1211540

Luminaire Tested: **ARCH4-40-722-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211540
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: ARCH4-40-722-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 355mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4642 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

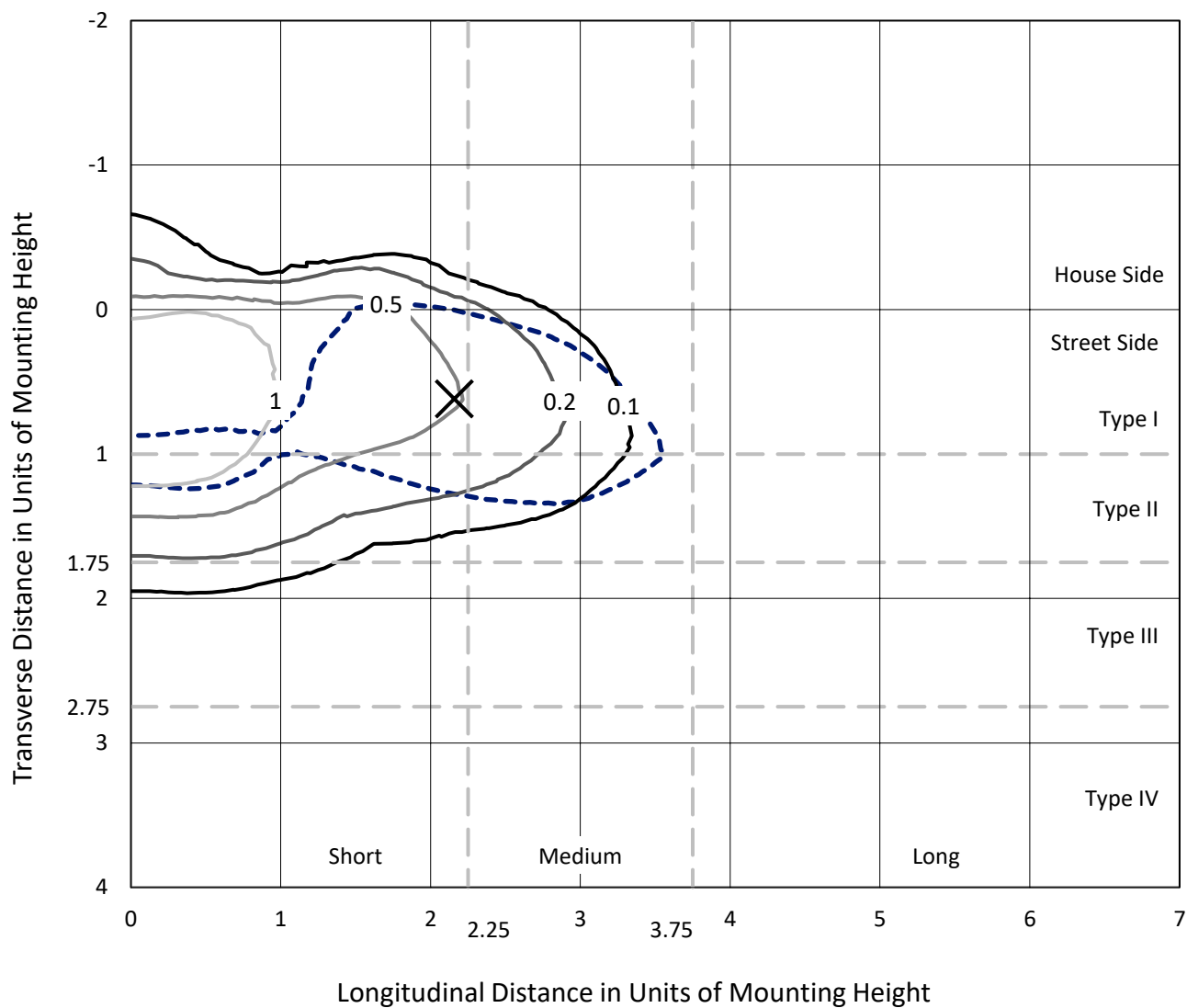
Input Watts (W): 43.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P1211540
 CATALOG NUMBER: ARCH4-40-722-U-T2RE-HSS

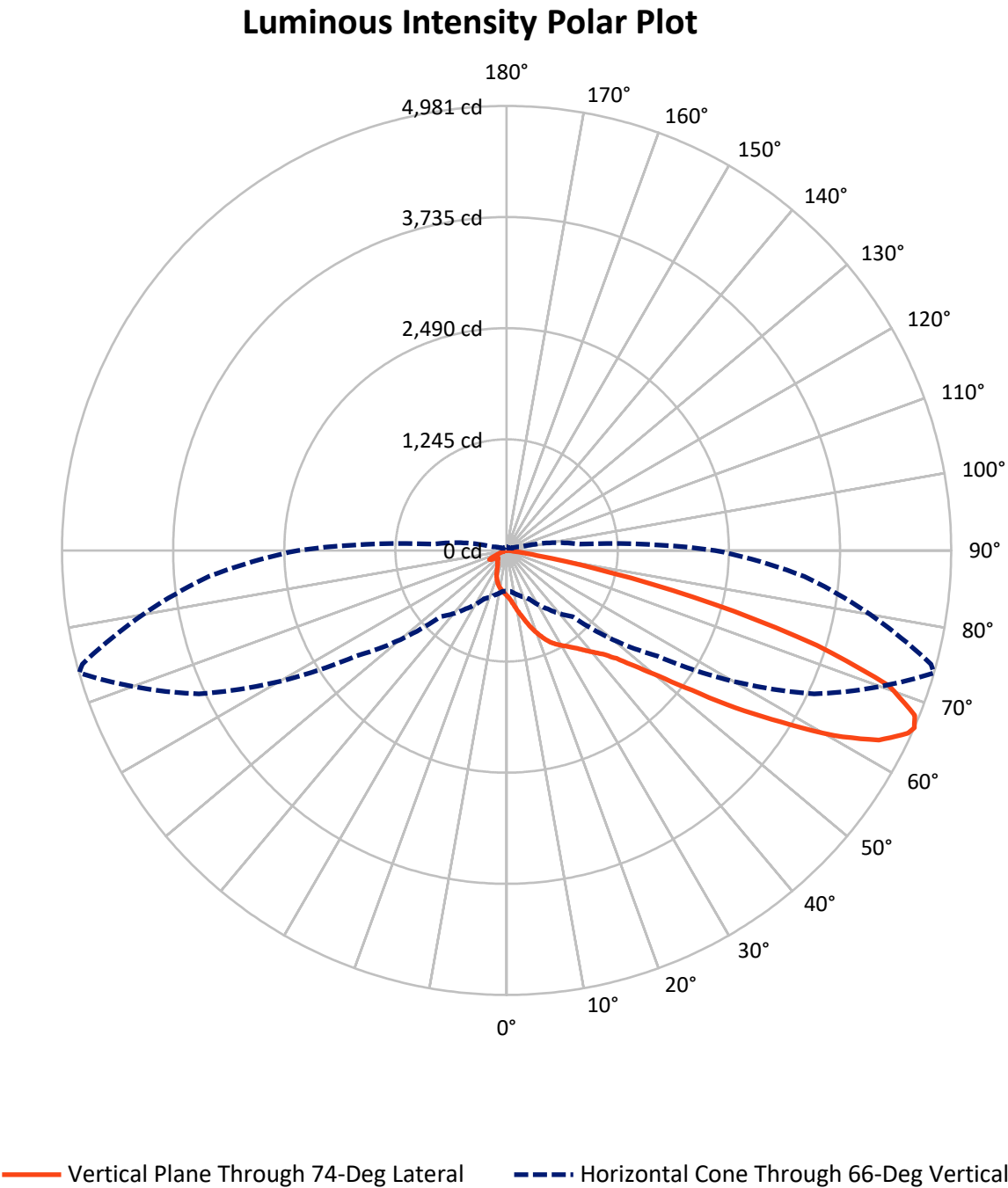
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type II - Short - N/A

REPORT NUMBER: P1211540
CATALOG NUMBER: ARCH4-40-722-U-T2RE-HSS



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	455.0	0.0	455.0
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	4186.9	0.0	4186.9
	% Fixture	90.2	0.0	90.2
Total	Lumens	4642.0	0.0	4642.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.5	1.1
10°-20°	158.6	3.4
20°-30°	302.6	6.5
30°-40°	530.4	11.4
40°-50°	909.5	19.6
50°-60°	1182.8	25.5
60°-70°	1070.7	23.1
70°-80°	413.1	8.9
80°-90°	24.9	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°	4642.0	100.0
0°-180°	4642.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1211540

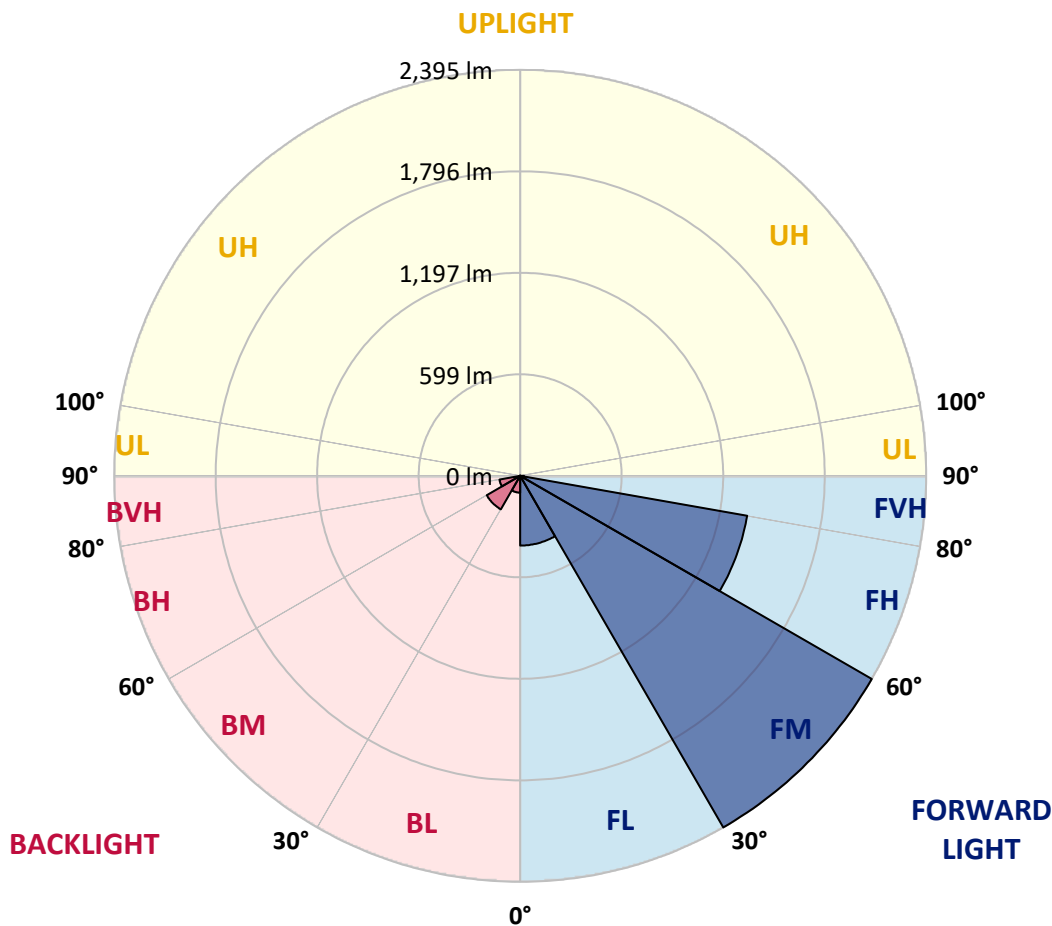
CATALOG NUMBER: ARCH4-40-722-U-T2RE-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	411.3	8.9			
FM	(30°-60°)	2394.6	51.6			
FH	(60°-80°)	1359.5	29.3			G1/1800
FVH	(80°-90°)	21.5	0.5			G1/100
BL	(0°-30°)	99.3	2.1	B0/110		
BM	(30°-60°)	228.1	4.9	B1/1000		
BH	(60°-80°)	124.4	2.7	B1/500		G1/500
BVH	(80°-90°)	3.3	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: P1211540

CATALOG NUMBER: ARCH4-40-722-U-T2RE-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	506.7	506.7	506.7	506.7	506.7	506.7	506.7	506.7	506.7	506.7	506.7
2.5°	608.4	603.4	594.2	593.4	585.9	576.7	560.9	544.2	532.6	530.9	516.7
5°	728.4	725.9	716.7	710.9	696.7	675.1	638.4	601.7	570.9	567.6	535.9
7.5°	760.1	761.7	763.4	769.2	764.2	754.2	726.7	675.1	626.7	619.2	564.2
10°	765.1	763.4	763.4	770.9	785.1	799.2	795.9	751.7	689.2	680.1	603.4
12.5°	819.2	821.7	815.9	812.6	810.1	817.6	842.6	823.4	755.1	747.6	650.9
15°	889.3	888.4	880.1	880.1	872.6	860.1	875.9	890.1	834.2	825.1	705.1
17.5°	940.1	943.4	942.6	947.6	945.1	928.4	920.1	949.3	915.9	904.3	766.7
20°	980.9	990.1	993.4	1009.3	1016.8	1005.1	983.4	1001.8	994.3	983.4	829.2
22.5°	1024.3	1031.8	1037.6	1065.1	1085.9	1083.4	1055.9	1051.8	1070.1	1060.1	890.9
25°	1067.6	1070.9	1088.4	1121.8	1155.1	1163.4	1135.1	1102.6	1138.4	1129.3	945.9
27.5°	1115.1	1116.8	1137.6	1178.4	1225.1	1242.6	1220.1	1160.1	1190.9	1190.9	995.9
30°	1201.8	1218.4	1226.8	1263.5	1304.3	1328.5	1301.8	1220.9	1237.6	1245.1	1048.4
32.5°	1388.5	1391.0	1388.5	1404.3	1412.6	1426.8	1396.0	1289.3	1285.1	1293.5	1100.1
35°	1673.5	1663.5	1636.8	1613.5	1565.1	1538.5	1498.5	1376.8	1343.5	1355.1	1150.9
37.5°	2019.4	2005.2	1944.3	1872.7	1769.3	1662.7	1612.7	1483.5	1417.6	1432.6	1205.9
40°	2349.4	2340.2	2267.7	2179.4	2002.7	1820.2	1714.3	1573.5	1500.1	1506.0	1261.8
42.5°	2621.1	2619.4	2558.6	2466.1	2239.4	1990.2	1834.3	1661.8	1586.8	1596.0	1320.1
45°	2826.9	2811.1	2766.1	2699.4	2468.6	2166.9	1979.4	1796.0	1726.0	1736.8	1407.6
47.5°	2826.9	2829.4	2858.6	2851.9	2628.6	2332.7	2137.7	1965.2	1931.8	1941.8	1551.8
50°	2596.9	2620.2	2750.3	2859.4	2711.9	2461.9	2308.6	2176.9	2211.0	2226.0	1803.5
52.5°	2141.9	2181.0	2406.9	2656.1	2650.2	2526.9	2485.2	2446.1	2599.4	2626.1	2175.2
55°	1627.7	1653.5	1947.7	2275.2	2381.9	2473.6	2639.4	2787.8	3113.6	3107.8	2552.7
57.5°	1215.9	1240.1	1493.5	1856.8	1997.7	2242.7	2718.6	3178.6	3623.7	3646.2	2906.9
60°	894.3	912.6	1128.4	1426.8	1630.2	1889.3	2686.9	3563.7	4211.2	4185.4	3219.5
62.5°	661.7	671.7	827.6	1021.8	1291.8	1539.3	2487.7	3827.0	4680.4	4627.9	3393.7
65°	511.7	515.0	595.9	699.2	939.3	1196.8	2191.0	3867.0	4939.6	4883.8	3390.3
66°	455.9	458.4	517.5	597.6	799.2	1047.6	2061.0	3802.9	4980.5	4921.3	3348.6
67.5°	382.5	380.9	415.9	468.4	600.1	808.4	1830.2	3615.3	4932.1	4902.1	3215.3
70°	283.4	284.2	301.7	314.2	350.9	447.5	1321.8	3136.1	4545.4	4543.8	2849.4
72.5°	210.0	212.5	225.9	228.4	219.2	242.5	761.7	2494.4	3636.2	3637.0	2130.2
75°	157.5	161.7	165.8	167.5	159.2	153.3	344.2	1678.5	2391.9	2374.4	1205.9
77.5°	120.0	121.7	125.0	122.5	120.8	105.8	143.3	818.4	1180.9	1075.9	390.9
80°	87.5	87.5	90.8	87.5	86.7	75.8	78.3	262.5	346.7	288.4	84.2
82.5°	55.0	54.2	56.7	55.8	54.2	48.3	45.8	73.3	80.0	71.7	40.8
85°	30.8	30.0	29.2	28.3	25.8	21.7	25.0	27.5	36.7	37.5	29.2
87.5°	10.8	10.8	10.0	9.2	7.5	7.5	9.2	9.2	13.3	13.3	15.0
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: P1211540

CATALOG NUMBER: ARCH4-40-722-U-T2RE-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	506.7	506.7	506.7	506.7	506.7	506.7	506.7	506.7	506.7	506.7	506.7
2.5°	510.0	500.9	487.5	470.0	457.5	445.0	431.7	424.2	413.4	410.9	414.2
5°	519.2	502.5	469.2	432.5	400.9	372.5	345.9	330.0	314.2	308.4	310.9
7.5°	538.4	510.0	453.4	394.2	341.7	299.2	267.5	249.2	235.0	229.2	230.9
10°	566.7	523.4	438.4	350.9	283.4	238.4	211.7	200.0	191.7	188.4	189.2
12.5°	600.9	542.6	419.2	307.5	233.4	194.2	181.7	179.2	177.5	175.8	176.7
15°	639.2	559.2	396.7	265.0	194.2	172.5	168.3	167.5	166.7	166.7	166.7
17.5°	679.2	574.2	371.7	225.0	169.2	159.2	156.7	156.7	156.7	157.5	157.5
20°	716.7	585.9	342.5	189.2	155.0	146.7	145.0	145.0	145.8	146.7	146.7
22.5°	753.4	590.9	308.4	164.2	143.3	135.8	133.3	133.3	133.3	134.2	134.2
25°	785.1	590.9	274.2	148.3	133.3	125.8	122.5	121.7	122.5	122.5	122.5
27.5°	811.7	588.4	240.9	137.5	123.3	115.8	112.5	111.7	113.3	114.2	114.2
30°	840.1	585.1	214.2	127.5	115.0	107.5	104.2	104.2	106.7	110.0	110.0
32.5°	867.6	587.6	193.4	119.2	106.7	100.8	97.5	98.3	103.3	108.3	108.3
35°	896.8	592.6	180.9	113.3	100.8	95.0	92.5	95.0	100.0	105.0	105.0
37.5°	925.9	598.4	173.3	108.3	95.8	90.0	88.3	91.7	97.5	102.5	103.3
40°	956.8	603.4	165.0	103.3	92.5	85.8	85.0	88.3	95.8	100.8	101.7
42.5°	995.1	613.4	155.0	99.2	89.2	80.8	81.7	84.2	91.7	99.2	100.0
45°	1070.1	645.1	145.0	95.0	85.0	78.3	76.7	78.3	86.7	95.0	96.7
47.5°	1210.9	716.7	134.2	90.8	80.8	76.7	70.0	71.7	79.2	88.3	89.2
50°	1481.0	869.2	128.3	86.7	77.5	70.8	63.3	63.3	69.2	77.5	77.5
52.5°	1901.8	1142.6	131.7	83.3	73.3	65.0	57.5	56.7	60.0	65.8	65.8
55°	2356.1	1442.6	144.2	80.0	68.3	61.7	53.3	49.2	51.7	55.0	55.0
57.5°	2716.1	1593.5	178.4	78.3	62.5	59.2	48.3	42.5	45.0	48.3	48.3
60°	2874.4	1505.1	216.7	80.0	58.3	55.0	43.3	37.5	41.7	45.0	45.8
62.5°	2746.1	1239.3	232.5	75.8	52.5	49.2	42.5	35.0	40.0	42.5	43.3
65°	2468.6	941.8	181.7	65.8	48.3	42.5	38.3	33.3	37.5	40.0	40.0
66°	2336.9	820.9	155.0	60.8	46.7	40.0	36.7	33.3	36.7	38.3	39.2
67.5°	2132.7	647.6	115.0	53.3	43.3	36.7	34.2	31.7	35.0	36.7	36.7
70°	1667.7	385.9	69.2	41.7	37.5	32.5	30.8	29.2	31.7	32.5	32.5
72.5°	1044.3	183.4	44.2	30.8	31.7	30.8	25.8	27.5	28.3	29.2	29.2
75°	505.9	72.5	30.0	22.5	25.8	29.2	20.8	24.2	25.0	26.7	25.8
77.5°	140.8	35.0	19.2	16.7	22.5	22.5	15.8	19.2	22.5	28.3	25.8
80°	40.8	22.5	12.5	12.5	15.8	15.8	10.8	13.3	15.0	16.7	17.5
82.5°	28.3	15.0	8.3	9.2	9.2	10.0	6.7	6.7	8.3	8.3	9.2
85°	22.5	6.7	5.0	5.8	4.2	5.0	3.3	3.3	4.2	3.3	3.3
87.5°	9.2	3.3	3.3	3.3	2.5	2.5	1.7	0.8	0.8	0.8	0.8
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)