

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: P1210198

Luminaire Tested: **ARCH2-50-722-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210198
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: ARCH2-50-722-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 410mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

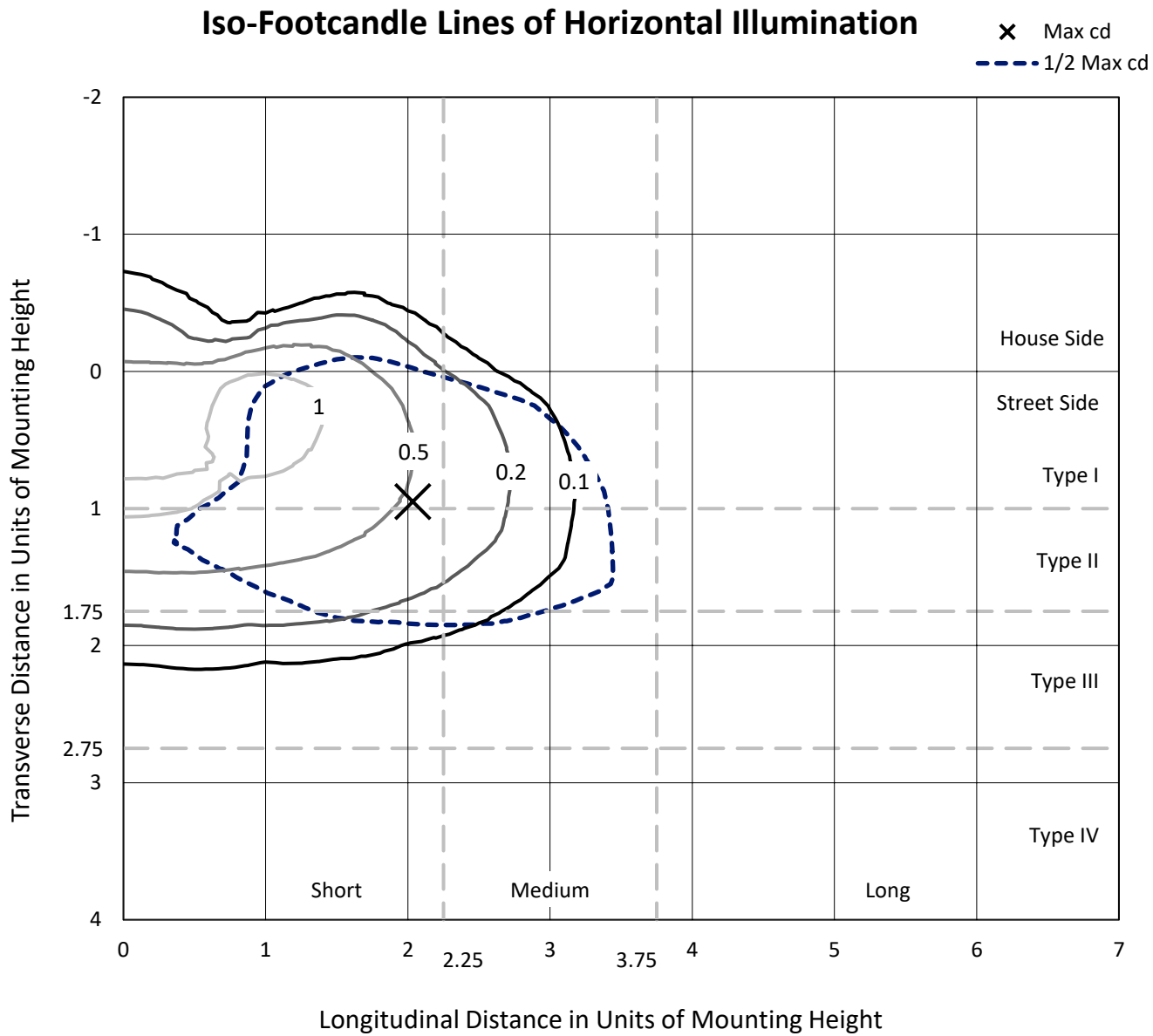
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4846 lumens
Efficiency: N/A
Efficacy: 89.7 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): 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



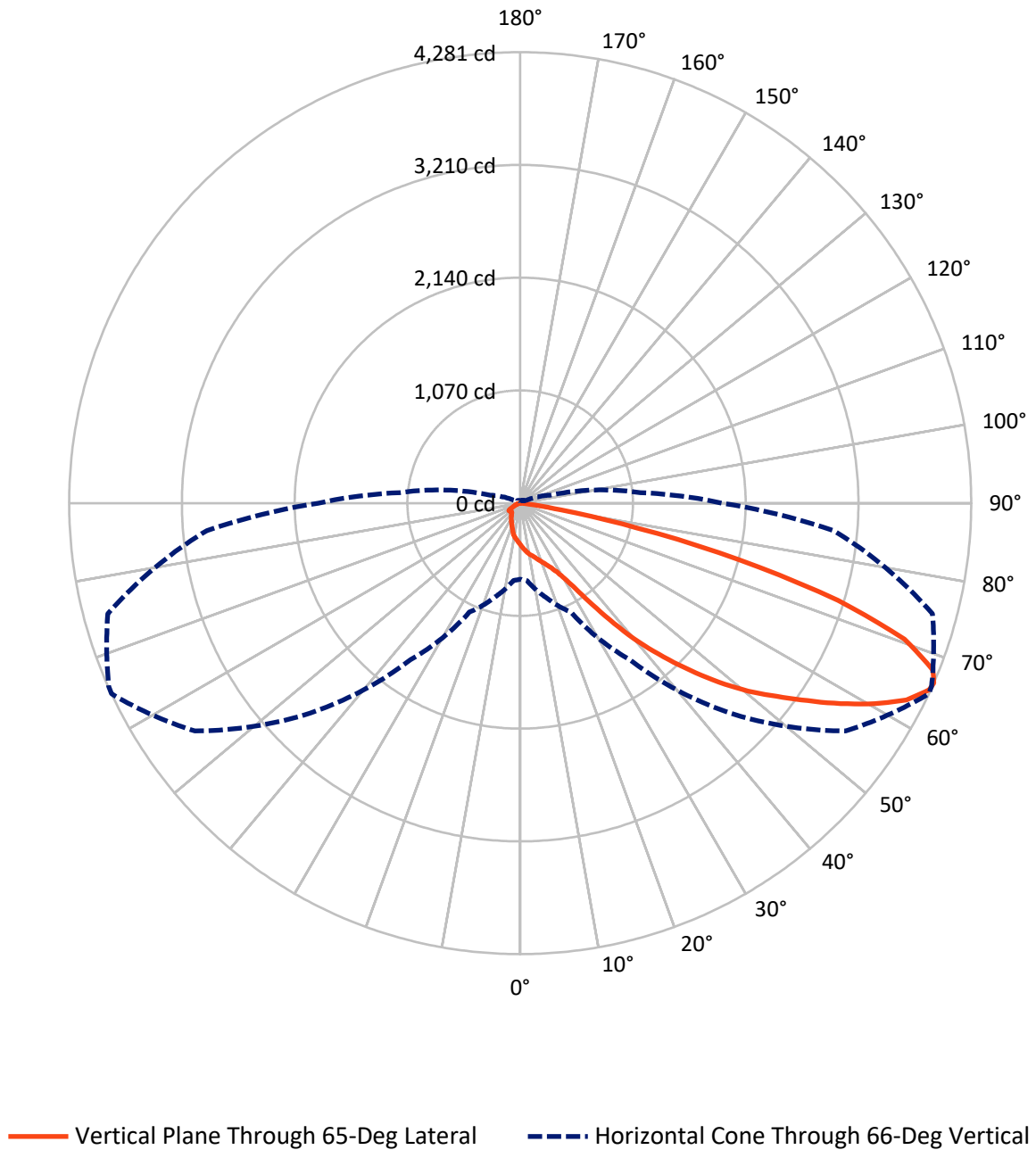
REPORT NUMBER: P1210198
CATALOG NUMBER: ARCH2-50-722-U-T3RE-HSS



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
Type III - Short - N/A

REPORT NUMBER: P1210198
CATALOG NUMBER: ARCH2-50-722-U-T3RE-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P1210198

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	571.9	0.0	571.9
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	4274.1	0.0	4274.1
	% Fixture	88.2	0.0	88.2
Total	Lumens	4846.0	0.0	4846.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.4	0.8
10°-20°	110.8	2.3
20°-30°	202.8	4.2
30°-40°	412.1	8.5
40°-50°	870.2	18.0
50°-60°	1337.8	27.6
60°-70°	1346.6	27.8
70°-80°	503.2	10.4
80°-90°	25.1	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°	4846.0	100.0
0°-180°	4846.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1210198

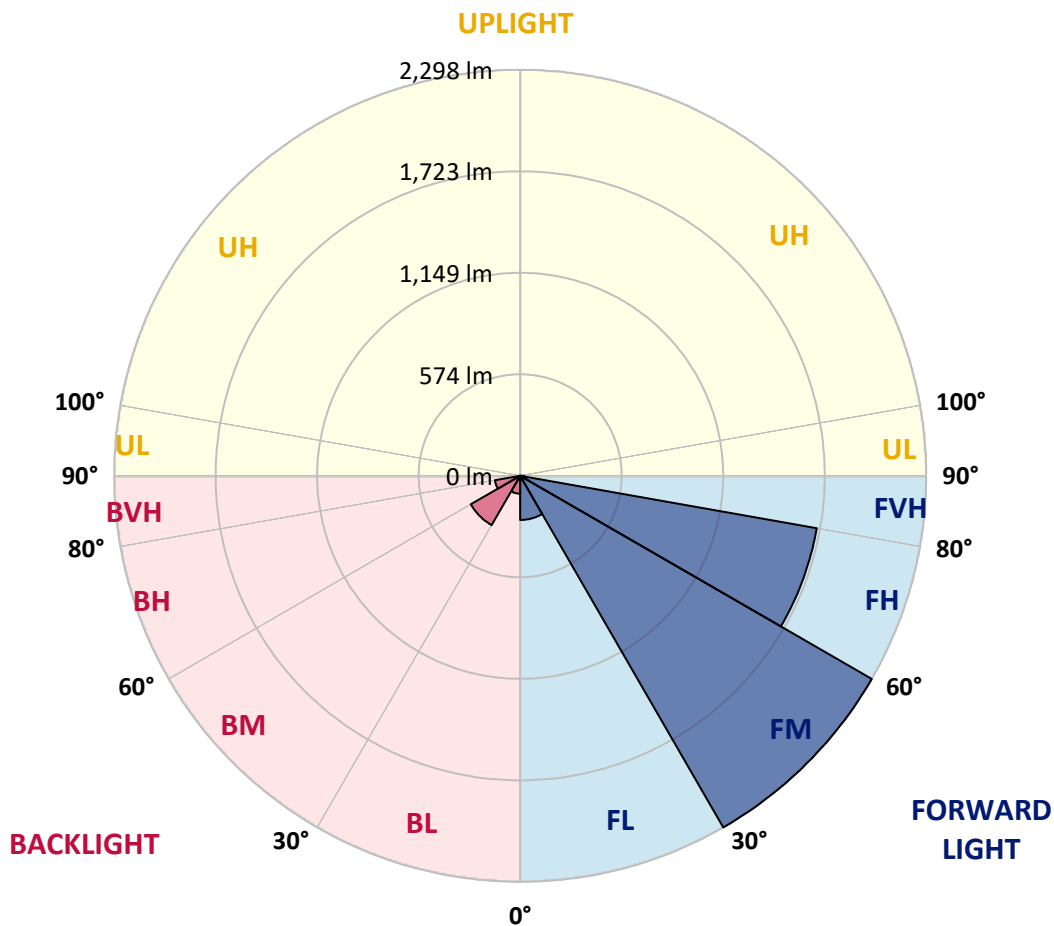
CATALOG NUMBER: ARCH2-50-722-U-T3RE-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	249.8	5.2			
FM	(30°-60°)	2297.6	47.4			
FH	(60°-80°)	1704.5	35.2			G1/1800
FVH	(80°-90°)	22.2	0.5			G1/100
BL	(0°-30°)	101.2	2.1	B0/110		
BM	(30°-60°)	322.5	6.7	B1/1000		
BH	(60°-80°)	145.3	3.0	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 III Short



REPORT NUMBER: P1210198

CATALOG NUMBER: ARCH2-50-722-U-T3RE-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	394.8	394.8	394.8	394.8	394.8	394.8	394.8	394.8	394.8	394.8	394.8
2.5°	450.2	451.1	449.3	445.8	442.3	437.9	430.9	419.4	417.7	409.8	401.0
5°	481.0	482.7	480.1	479.2	477.5	471.3	461.6	444.9	443.2	427.3	407.1
7.5°	491.5	494.2	492.4	492.4	492.4	489.8	485.4	470.4	467.8	447.6	416.8
10°	499.5	501.2	500.3	503.8	506.5	504.7	502.1	493.3	490.7	470.4	430.0
12.5°	511.8	512.6	513.5	515.3	519.7	521.4	520.6	512.6	510.9	496.8	446.7
15°	523.2	523.2	524.1	532.0	538.1	541.7	542.5	536.4	534.6	523.2	467.8
17.5°	533.7	534.6	537.3	546.1	556.6	563.6	568.0	565.4	562.8	554.0	492.4
20°	549.6	551.3	554.0	566.3	576.8	588.3	597.1	596.2	595.3	589.1	521.4
22.5°	576.8	578.6	583.0	594.4	605.0	619.0	634.0	633.1	630.5	626.1	555.7
25°	618.2	618.2	620.8	630.5	643.7	660.4	674.4	677.1	674.4	671.8	598.8
27.5°	670.0	670.9	670.9	681.5	693.8	714.9	732.5	735.1	735.1	732.5	656.8
30°	742.1	739.5	737.7	746.5	759.7	790.5	821.3	826.6	823.9	828.3	738.6
32.5°	866.1	861.7	846.8	848.5	856.5	898.7	950.5	969.0	968.1	976.0	870.5
35°	1037.6	1028.8	1006.8	988.4	987.5	1033.2	1112.3	1181.8	1180.9	1208.2	1071.0
37.5°	1231.0	1242.5	1201.1	1169.5	1159.8	1195.9	1297.9	1448.2	1456.1	1503.6	1333.9
40°	1489.6	1496.6	1443.8	1399.0	1353.3	1366.5	1501.0	1734.9	1749.0	1801.7	1596.8
42.5°	1714.7	1721.7	1690.9	1636.4	1578.4	1553.8	1705.9	1995.2	2006.6	2079.6	1867.7
45°	1867.7	1872.9	1883.5	1888.8	1822.8	1771.8	1956.5	2262.5	2276.5	2361.0	2132.3
47.5°	1987.3	1991.6	2012.8	2065.5	2052.3	2011.9	2211.5	2540.3	2543.9	2637.9	2390.0
50°	2042.6	2053.2	2105.1	2186.0	2244.0	2255.4	2488.5	2803.3	2812.9	2902.6	2633.5
52.5°	1981.1	1984.6	2115.6	2267.8	2384.7	2500.8	2766.3	3046.8	3075.0	3141.8	2852.5
55°	1773.6	1799.1	1997.8	2265.1	2495.5	2733.8	3063.5	3309.7	3335.2	3377.5	3045.1
57.5°	1532.6	1560.8	1802.6	2151.7	2543.0	2949.2	3338.8	3589.4	3607.0	3618.4	3221.8
60°	1324.2	1350.6	1599.5	1934.5	2495.5	3101.3	3594.6	3867.2	3882.2	3851.4	3310.6
62.5°	1068.4	1094.7	1345.4	1647.0	2309.1	3132.1	3784.6	4114.3	4120.5	4036.9	3256.1
65°	805.5	823.0	1032.3	1290.8	1982.9	2968.6	3827.7	4268.2	4262.0	4090.6	3092.6
66°	721.9	736.9	921.5	1141.4	1813.1	2819.1	3769.6	4280.5	4274.4	4051.0	2985.3
67.5°	622.6	627.0	779.1	933.8	1516.8	2501.7	3592.9	4224.2	4229.5	3942.0	2789.2
70°	486.3	485.4	573.3	649.8	1035.8	1779.7	2996.7	3869.9	3895.4	3530.5	2378.5
72.5°	311.3	300.7	351.7	397.5	603.2	1033.2	2185.1	3154.1	3197.2	2773.4	1771.8
75°	185.5	175.0	187.3	198.7	289.3	496.8	1284.7	2146.4	2187.7	1778.0	1054.3
77.5°	138.9	134.5	135.4	125.7	128.4	186.4	586.5	1134.3	1164.2	728.1	400.1
80°	106.4	95.0	88.8	93.2	84.4	73.9	218.1	390.4	408.9	172.3	83.5
82.5°	71.2	61.6	57.2	62.4	53.6	41.3	52.8	75.6	73.9	46.6	32.5
85°	36.9	31.7	31.7	31.7	27.3	20.2	22.9	30.8	30.8	24.6	19.3
87.5°	10.6	9.7	11.4	10.6	7.9	7.9	8.8	10.6	10.6	9.7	8.8
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: P1210198

CATALOG NUMBER: ARCH2-50-722-U-T3RE-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	394.8	394.8	394.8	394.8	394.8	394.8	394.8	394.8	394.8	394.8	394.8
2.5°	393.9	390.4	380.7	373.7	366.7	360.5	353.5	351.7	348.2	349.1	347.3
5°	396.6	386.9	370.2	354.4	342.1	331.5	318.3	313.0	306.0	303.4	301.6
7.5°	400.1	386.0	361.4	339.4	318.3	297.2	276.1	263.8	255.9	252.4	249.7
10°	408.0	389.5	357.0	322.7	286.7	256.8	235.7	226.9	221.6	220.7	219.8
12.5°	418.6	394.8	352.6	301.6	254.1	226.0	212.8	210.2	209.3	209.3	208.4
15°	434.4	403.6	345.6	277.0	228.6	209.3	203.1	198.7	197.0	197.0	197.0
17.5°	450.2	414.2	335.0	251.5	211.0	198.7	192.6	189.9	188.2	189.1	188.2
20°	470.4	426.5	321.0	229.5	199.6	189.9	183.8	181.1	180.3	180.3	180.3
22.5°	493.3	440.5	303.4	212.8	189.9	181.1	175.0	172.3	170.6	171.5	171.5
25°	524.1	458.1	284.9	196.1	180.3	172.3	165.3	161.8	161.8	162.7	163.6
27.5°	563.6	479.2	266.4	185.5	171.5	163.6	155.6	152.1	153.0	154.8	154.8
30°	621.7	508.2	248.0	174.1	161.8	153.0	146.0	142.4	144.2	147.7	147.7
32.5°	704.3	555.7	232.1	160.9	147.7	138.1	131.0	128.4	132.8	139.8	139.8
35°	852.1	642.8	222.5	147.7	132.8	121.3	112.6	109.9	116.1	124.9	124.9
37.5°	1049.9	782.6	226.0	136.3	120.5	107.3	97.6	94.1	98.5	106.4	109.0
40°	1270.6	951.4	256.8	126.6	109.0	95.8	86.2	82.7	85.3	88.8	89.7
42.5°	1491.3	1130.8	314.8	119.6	100.2	86.2	77.4	74.7	76.5	77.4	78.3
45°	1711.1	1308.4	387.8	115.2	92.3	78.3	69.5	69.5	70.3	70.3	70.3
47.5°	1919.5	1481.6	464.3	114.3	85.3	70.3	63.3	64.2	64.2	65.1	65.1
50°	2116.5	1636.4	541.7	116.9	79.1	63.3	58.0	58.0	58.0	58.9	58.0
52.5°	2280.9	1771.8	622.6	121.3	73.0	58.0	52.8	52.8	52.8	53.6	52.8
55°	2436.6	1894.9	705.2	127.5	67.7	53.6	48.4	46.6	46.6	47.5	46.6
57.5°	2563.2	1976.7	783.5	128.4	63.3	49.2	44.8	42.2	42.2	42.2	42.2
60°	2568.5	1929.2	806.3	112.6	58.0	44.8	40.4	36.9	37.8	37.8	37.8
62.5°	2400.5	1679.5	648.1	84.4	51.9	40.4	36.9	33.4	33.4	33.4	33.4
65°	2070.8	1306.7	379.9	66.8	44.8	36.1	32.5	29.9	29.9	29.9	29.0
66°	1916.0	1145.7	291.1	60.7	42.2	35.2	31.7	29.0	28.1	27.3	27.3
67.5°	1663.7	905.7	182.0	53.6	38.7	32.5	29.0	26.4	25.5	24.6	24.6
70°	1253.0	575.1	88.8	41.3	33.4	28.1	25.5	22.9	22.0	21.1	20.2
72.5°	879.3	336.8	46.6	31.7	27.3	24.6	22.0	19.3	18.5	17.6	17.6
75°	496.8	162.7	30.8	22.9	22.0	20.2	18.5	15.8	14.9	14.9	14.9
77.5°	188.2	56.3	21.1	16.7	17.6	15.8	13.2	13.2	12.3	13.2	12.3
80°	49.2	24.6	13.2	12.3	13.2	11.4	9.7	10.6	10.6	10.6	10.6
82.5°	26.4	14.1	7.9	8.8	7.9	7.9	6.2	7.0	7.9	7.0	7.9
85°	18.5	7.0	4.4	4.4	3.5	3.5	2.6	3.5	4.4	3.5	3.5
87.5°	9.7	2.6	2.6	2.6	2.6	1.8	0.9	0.0	0.9	0.9	0.9
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)