

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: P1210710

Luminaire Tested: **ARCH3-50-722-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210710
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: ARCH3-50-722-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 425mA LIGHTSQUARE WITH 40 LEDS AND TYPE III ROADWAY
ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5349 lumens
Efficiency: N/A
Efficacy: 99.8 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

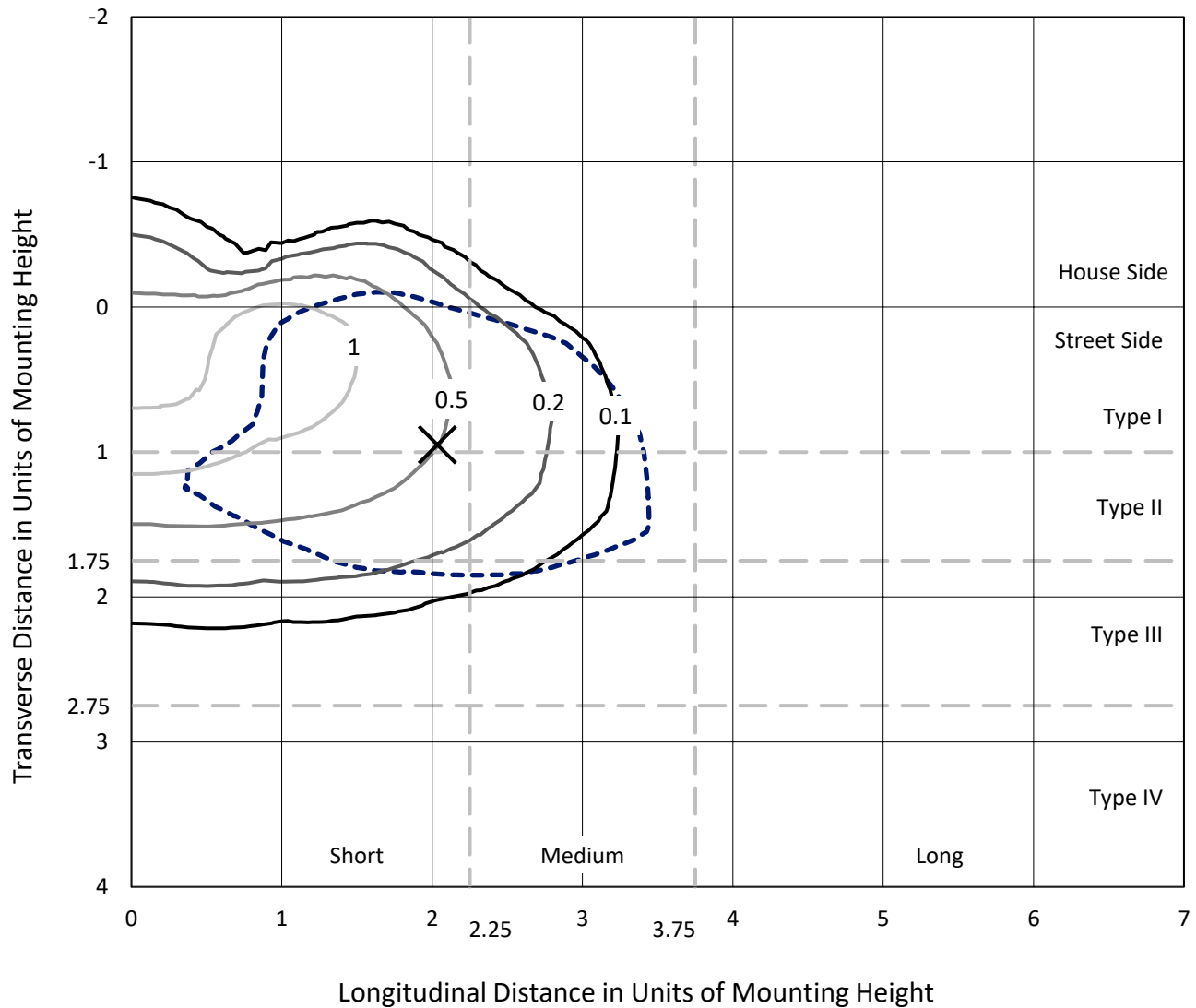
Input Watts (W): 53.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

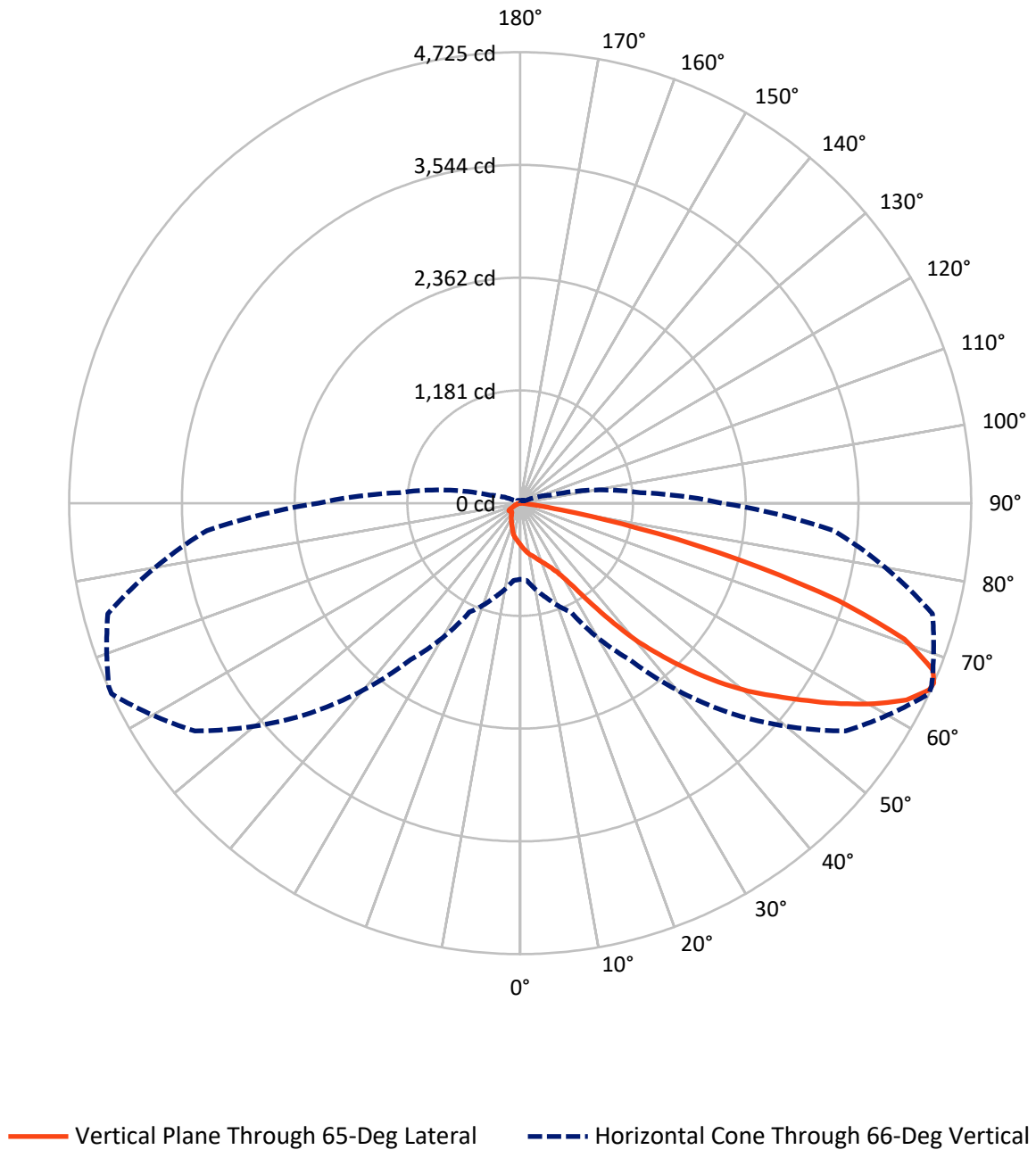
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	631.3	0.0	631.3
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	4717.7	0.0	4717.7
	% Fixture	88.2	0.0	88.2
Total	Lumens	5349.0	0.0	5349.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.3	0.8
10°-20°	122.3	2.3
20°-30°	223.9	4.2
30°-40°	454.9	8.5
40°-50°	960.5	18.0
50°-60°	1476.7	27.6
60°-70°	1486.4	27.8
70°-80°	555.4	10.4
80°-90°	27.7	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°	5349.0	100.0
0°-180°	5349.0	100.0

Coefficient of Utilization



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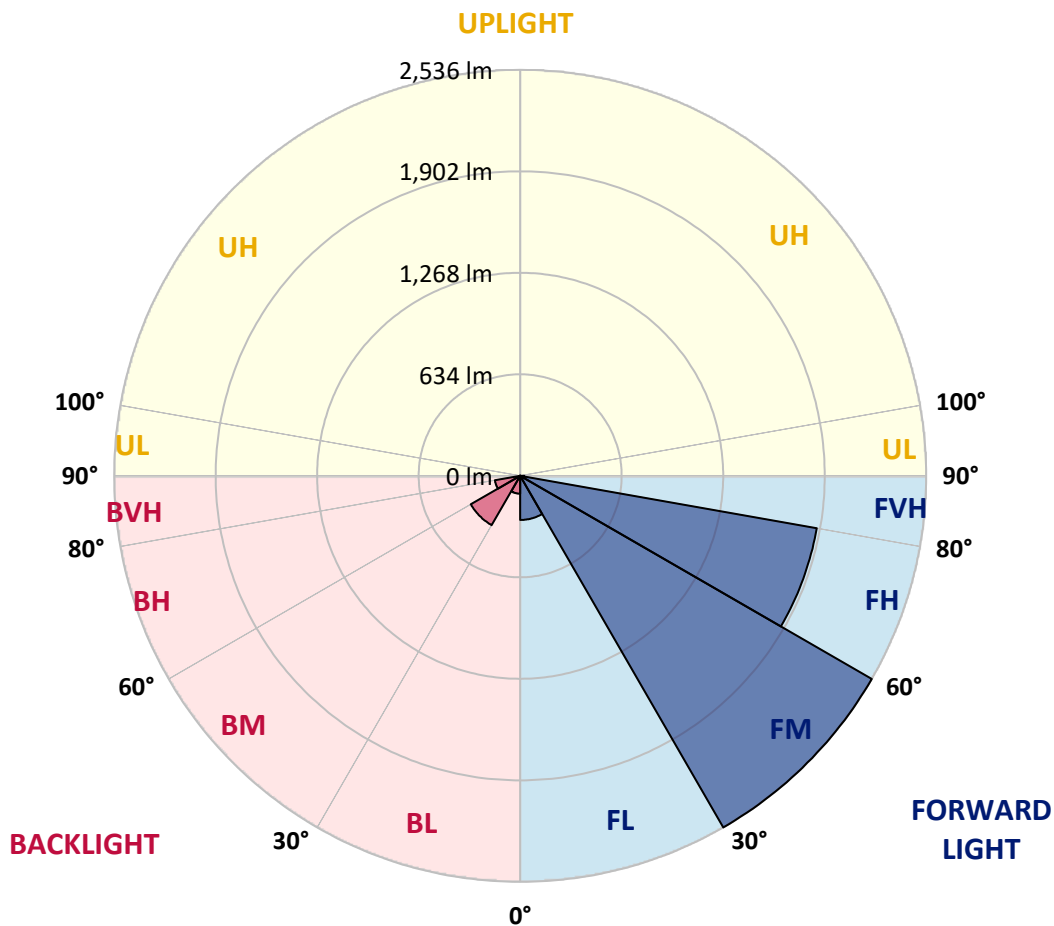
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	275.7	5.2			
FM	(30°-60°)	2536.1	47.4			
FH	(60°-80°)	1881.4	35.2			G2/5000
FVH	(80°-90°)	24.5	0.5			G1/100
BL	(0°-30°)	111.7	2.1	B1/500		
BM	(30°-60°)	355.9	6.7	B1/1000		
BH	(60°-80°)	160.4	3.0	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-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	435.8	435.8	435.8	435.8	435.8	435.8	435.8	435.8	435.8	435.8	435.8
2.5°	496.9	497.9	496.0	492.1	488.2	483.4	475.6	463.0	461.0	452.3	442.6
5°	530.9	532.9	529.9	529.0	527.0	520.2	509.6	491.1	489.2	471.7	449.4
7.5°	542.6	545.5	543.5	543.5	543.5	540.6	535.8	519.3	516.4	494.0	460.1
10°	551.3	553.2	552.3	556.1	559.1	557.1	554.2	544.5	541.6	519.3	474.6
12.5°	564.9	565.9	566.8	568.8	573.6	575.6	574.6	565.9	563.9	548.4	493.1
15°	577.5	577.5	578.5	587.2	594.0	597.9	598.9	592.1	590.1	577.5	516.4
17.5°	589.1	590.1	593.0	602.7	614.4	622.1	627.0	624.1	621.2	611.5	543.5
20°	606.6	608.6	611.5	625.1	636.7	649.3	659.0	658.1	657.1	650.3	575.6
22.5°	636.7	638.6	643.5	656.1	667.8	683.3	699.8	698.8	695.9	691.1	613.4
25°	682.3	682.3	685.2	695.9	710.5	728.9	744.4	747.4	744.4	741.5	661.0
27.5°	739.6	740.6	740.6	752.2	765.8	789.1	808.5	811.4	811.4	808.5	725.0
30°	819.2	816.3	814.3	824.0	838.6	872.6	906.5	912.4	909.4	914.3	815.3
32.5°	956.0	951.2	934.7	936.6	945.4	991.9	1049.2	1069.6	1068.6	1077.4	960.9
35°	1145.3	1135.6	1111.3	1090.9	1090.0	1140.4	1227.8	1304.5	1303.5	1333.6	1182.2
37.5°	1358.8	1371.4	1325.8	1290.9	1280.2	1320.0	1432.6	1598.6	1607.3	1659.7	1472.4
40°	1644.2	1651.9	1593.7	1544.2	1493.7	1508.3	1656.8	1915.0	1930.5	1988.7	1762.6
42.5°	1892.6	1900.4	1866.4	1806.3	1742.2	1715.0	1882.9	2202.3	2214.9	2295.4	2061.5
45°	2061.5	2067.3	2079.0	2084.8	2012.0	1955.7	2159.6	2497.3	2512.8	2606.0	2353.7
47.5°	2193.5	2198.4	2221.7	2279.9	2265.3	2220.7	2441.0	2804.0	2807.9	2911.8	2638.1
50°	2254.7	2266.3	2323.6	2412.9	2476.9	2489.6	2746.8	3094.2	3104.9	3203.9	2906.9
52.5°	2186.7	2190.6	2335.2	2503.1	2632.2	2760.3	3053.5	3363.1	3394.1	3467.9	3148.6
55°	1957.7	1985.8	2205.2	2500.2	2754.5	3017.6	3381.5	3653.3	3681.4	3728.0	3361.1
57.5°	1691.7	1722.8	1989.7	2375.0	2806.9	3255.3	3685.3	3961.9	3981.3	3994.0	3556.2
60°	1461.7	1490.8	1765.5	2135.3	2754.5	3423.3	3967.8	4268.6	4285.1	4251.2	3654.3
62.5°	1179.3	1208.4	1485.0	1817.9	2548.8	3457.2	4177.4	4541.4	4548.2	4456.0	3594.1
65°	889.1	908.5	1139.5	1424.8	2188.7	3276.7	4225.0	4711.2	4704.4	4515.2	3413.6
66°	796.9	813.4	1017.2	1259.8	2001.3	3111.7	4160.9	4724.8	4718.0	4471.5	3295.1
67.5°	687.2	692.0	859.9	1030.8	1674.3	2761.3	3965.8	4662.7	4668.5	4351.1	3078.7
70°	536.7	535.8	632.8	717.3	1143.4	1964.5	3307.8	4271.5	4299.7	3896.9	2625.4
72.5°	343.6	331.9	388.2	438.7	665.8	1140.4	2411.9	3481.5	3529.0	3061.2	1955.7
75°	204.8	193.1	206.7	219.4	319.3	548.4	1418.0	2369.2	2414.8	1962.5	1163.7
77.5°	153.4	148.5	149.5	138.8	141.7	205.8	647.4	1252.1	1285.1	803.6	441.6
80°	117.4	104.8	98.0	102.9	93.2	81.5	240.7	430.9	451.3	190.2	92.2
82.5°	78.6	67.9	63.1	68.9	59.2	45.6	58.2	83.5	81.5	51.4	35.9
85°	40.8	34.9	34.9	34.9	30.1	22.3	25.2	34.0	34.0	27.2	21.4
87.5°	11.6	10.7	12.6	11.6	8.7	8.7	9.7	11.6	11.6	10.7	9.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	435.8	435.8	435.8	435.8	435.8	435.8	435.8	435.8	435.8	435.8	435.8
2.5°	434.8	430.9	420.3	412.5	404.7	397.9	390.2	388.2	384.4	385.3	383.4
5°	437.7	427.1	408.6	391.1	377.6	365.9	351.4	345.5	337.8	334.9	332.9
7.5°	441.6	426.1	398.9	374.6	351.4	328.1	304.8	291.2	282.4	278.6	275.6
10°	450.4	430.0	394.1	356.2	316.4	283.4	260.1	250.4	244.6	243.6	242.6
12.5°	462.0	435.8	389.2	332.9	280.5	249.4	234.9	232.0	231.0	231.0	230.0
15°	479.5	445.5	381.4	305.7	252.4	231.0	224.2	219.4	217.4	217.4	217.4
17.5°	496.9	457.1	369.8	277.6	232.9	219.4	212.6	209.6	207.7	208.7	207.7
20°	519.3	470.7	354.3	253.3	220.3	209.6	202.9	199.9	199.0	199.0	199.0
22.5°	544.5	486.3	334.9	234.9	209.6	199.9	193.1	190.2	188.3	189.3	189.3
25°	578.5	505.7	314.5	216.4	199.0	190.2	182.5	178.6	178.6	179.6	180.5
27.5°	622.1	529.0	294.1	204.8	189.3	180.5	171.8	167.9	168.9	170.8	170.8
30°	686.2	561.0	273.7	192.2	178.6	168.9	161.1	157.2	159.2	163.1	163.1
32.5°	777.4	613.4	256.2	177.6	163.1	152.4	144.6	141.7	146.6	154.3	154.3
35°	940.5	709.5	245.6	163.1	146.6	133.9	124.2	121.3	128.1	137.8	137.8
37.5°	1158.9	863.8	249.4	150.4	133.0	118.4	107.7	103.9	108.7	117.4	120.4
40°	1402.5	1050.2	283.4	139.8	120.4	105.8	95.1	91.2	94.1	98.0	99.0
42.5°	1646.1	1248.2	347.5	132.0	110.6	95.1	85.4	82.5	84.4	85.4	86.4
45°	1888.8	1444.2	428.0	127.1	101.9	86.4	76.7	76.7	77.6	77.6	77.6
47.5°	2118.8	1635.4	512.5	126.2	94.1	77.6	69.9	70.9	70.9	71.8	71.8
50°	2336.2	1806.3	597.9	129.1	87.4	69.9	64.1	64.1	64.1	65.0	64.1
52.5°	2517.7	1955.7	687.2	133.9	80.6	64.1	58.2	58.2	58.2	59.2	58.2
55°	2689.5	2091.6	778.4	140.7	74.7	59.2	53.4	51.4	51.4	52.4	51.4
57.5°	2829.3	2181.9	864.8	141.7	69.9	54.4	49.5	46.6	46.6	46.6	46.6
60°	2835.1	2129.5	890.0	124.2	64.1	49.5	44.6	40.8	41.7	41.7	41.7
62.5°	2649.7	1853.8	715.3	93.2	57.3	44.6	40.8	36.9	36.9	36.9	36.9
65°	2285.7	1442.3	419.3	73.8	49.5	39.8	35.9	33.0	33.0	33.0	32.0
66°	2114.9	1264.7	321.3	67.0	46.6	38.8	34.9	32.0	31.1	30.1	30.1
67.5°	1836.3	999.7	200.9	59.2	42.7	35.9	32.0	29.1	28.1	27.2	27.2
70°	1383.1	634.8	98.0	45.6	36.9	31.1	28.1	25.2	24.3	23.3	22.3
72.5°	970.6	371.7	51.4	34.9	30.1	27.2	24.3	21.4	20.4	19.4	19.4
75°	548.4	179.6	34.0	25.2	24.3	22.3	20.4	17.5	16.5	16.5	16.5
77.5°	207.7	62.1	23.3	18.4	19.4	17.5	14.6	14.6	13.6	14.6	13.6
80°	54.4	27.2	14.6	13.6	14.6	12.6	10.7	11.6	11.6	11.6	11.6
82.5°	29.1	15.5	8.7	9.7	8.7	8.7	6.8	7.8	8.7	7.8	8.7
85°	20.4	7.8	4.9	4.9	3.9	3.9	2.9	3.9	4.9	3.9	3.9
87.5°	10.7	2.9	2.9	2.9	2.9	1.9	1.0	0.0	1.0	1.0	1.0
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)