

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: P1209982

Luminaire Tested: **ARCH1-40-730-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1209982
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: ARCH1-40-730-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1220mA 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: 4033 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 43
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

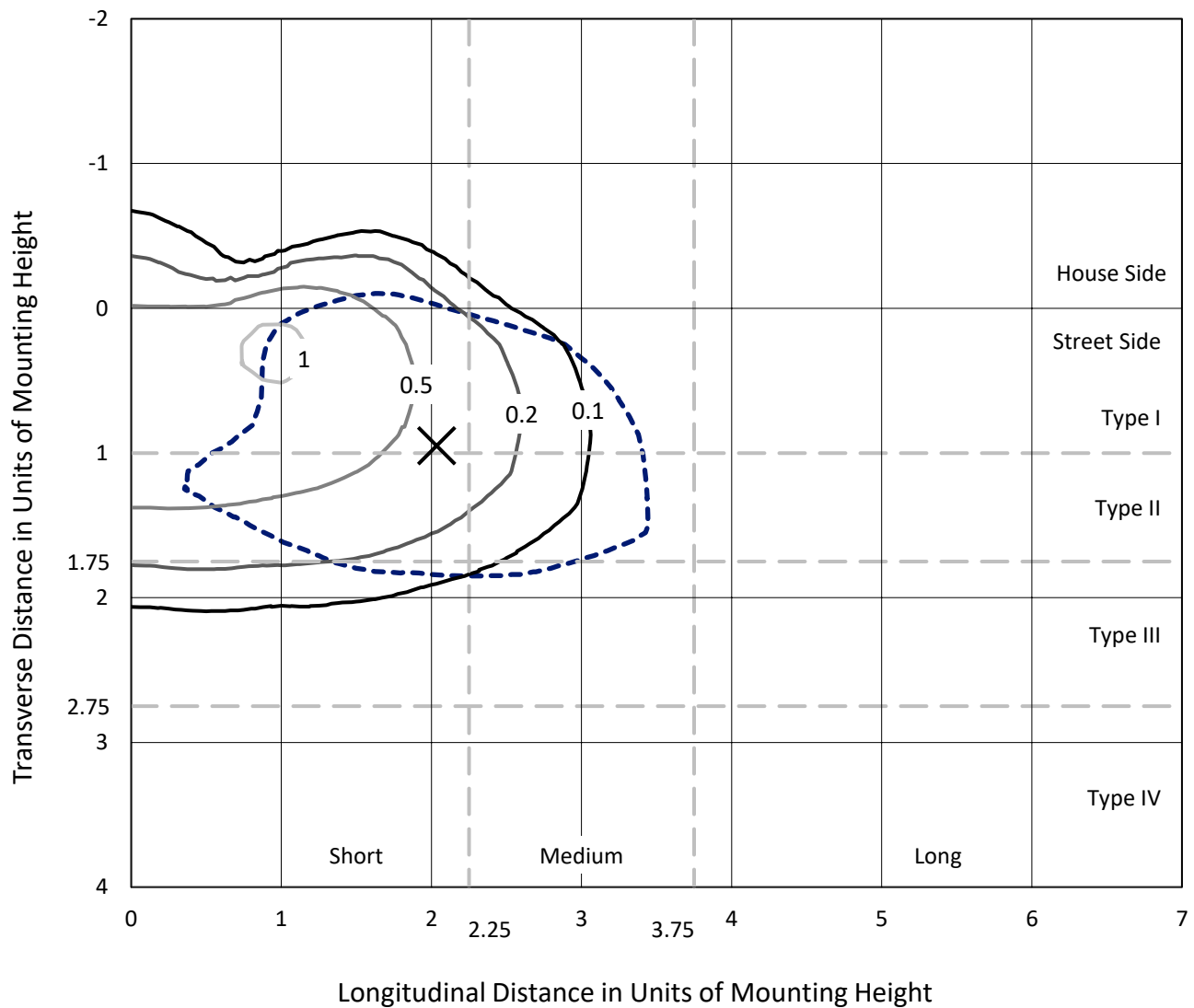


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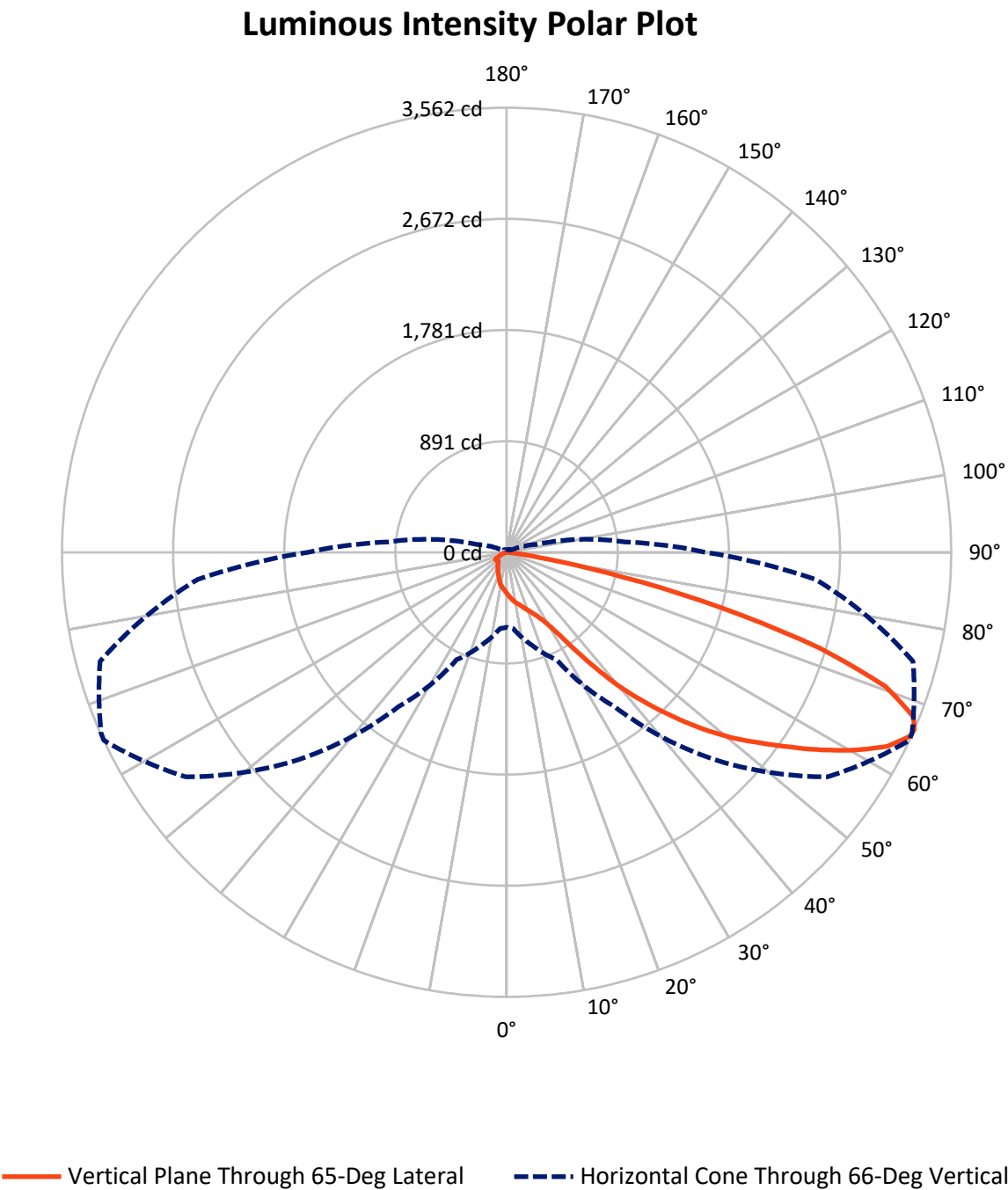
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
Type III - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	476.0	0.0	476.0
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	3557.0	0.0	3557.0
	% Fixture	88.2	0.0	88.2
Total	Lumens	4033.0	0.0	4033.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.2	0.8
10°-20°	92.2	2.3
20°-30°	168.8	4.2
30°-40°	342.9	8.5
40°-50°	724.2	18.0
50°-60°	1113.4	27.6
60°-70°	1120.7	27.8
70°-80°	418.7	10.4
80°-90°	20.9	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°	4033.0	100.0
0°-180°	4033.0	100.0

Coefficient of Utilization



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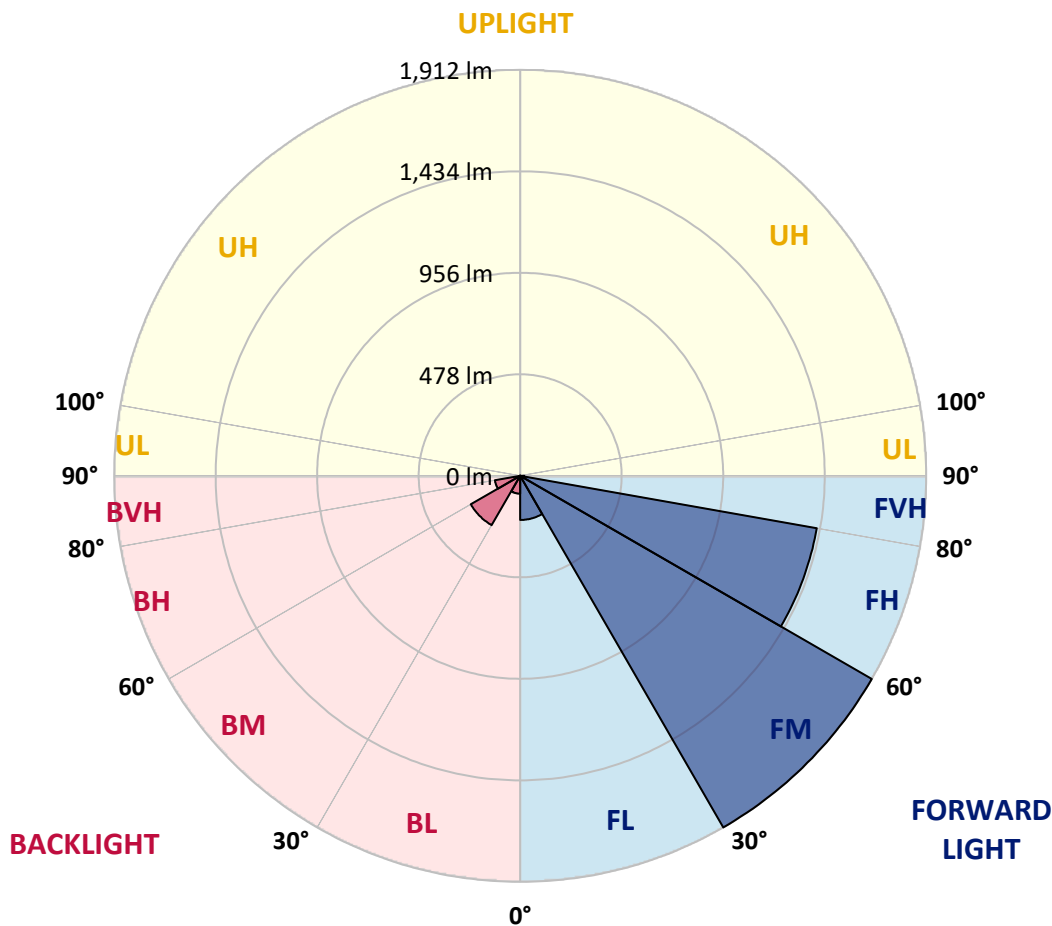
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	207.9	5.2			
FM	(30°-60°)	1912.2	47.4			
FH	(60°-80°)	1418.5	35.2			G1/1800
FVH	(80°-90°)	18.5	0.5			G1/100
BL	(0°-30°)	84.2	2.1	B0/110		
BM	(30°-60°)	268.4	6.7	B1/1000		
BH	(60°-80°)	120.9	3.0	B1/500		G1/500
BVH	(80°-90°)	2.5	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	328.6	328.6	328.6	328.6	328.6	328.6	328.6	328.6	328.6	328.6	328.6
2.5°	374.7	375.4	373.9	371.0	368.1	364.4	358.6	349.1	347.6	341.0	333.7
5°	400.3	401.8	399.6	398.8	397.4	392.2	384.2	370.3	368.8	355.7	338.8
7.5°	409.1	411.3	409.8	409.8	409.8	407.6	404.0	391.5	389.3	372.5	346.9
10°	415.7	417.1	416.4	419.3	421.5	420.1	417.9	410.5	408.3	391.5	357.8
12.5°	425.9	426.6	427.4	428.8	432.5	434.0	433.2	426.6	425.2	413.5	371.8
15°	435.4	435.4	436.1	442.7	447.9	450.8	451.5	446.4	444.9	435.4	389.3
17.5°	444.2	444.9	447.1	454.4	463.2	469.1	472.7	470.5	468.3	461.0	409.8
20°	457.4	458.8	461.0	471.3	480.1	489.6	496.9	496.2	495.4	490.3	434.0
22.5°	480.1	481.5	485.2	494.7	503.5	515.2	527.6	526.9	524.7	521.0	462.5
25°	514.5	514.5	516.6	524.7	535.7	549.6	561.3	563.5	561.3	559.1	498.4
27.5°	557.6	558.4	558.4	567.1	577.4	594.9	609.6	611.8	611.8	609.6	546.7
30°	617.6	615.4	614.0	621.3	632.3	657.9	683.5	687.9	685.7	689.4	614.7
32.5°	720.8	717.2	704.7	706.2	712.8	747.9	791.1	806.4	805.7	812.3	724.5
35°	863.5	856.2	837.9	822.5	821.8	859.9	925.7	983.5	982.8	1005.5	891.3
37.5°	1024.5	1034.0	999.6	973.3	965.2	995.2	1080.1	1205.3	1211.9	1251.4	1110.1
40°	1239.7	1245.5	1201.6	1164.3	1126.2	1137.2	1249.2	1443.8	1455.5	1499.4	1328.9
42.5°	1427.0	1432.9	1407.2	1361.9	1313.6	1293.1	1419.7	1660.4	1670.0	1730.7	1554.3
45°	1554.3	1558.7	1567.5	1571.9	1517.0	1474.6	1628.2	1882.9	1894.6	1964.9	1774.6
47.5°	1653.9	1657.5	1675.1	1719.0	1708.0	1674.3	1840.5	2114.2	2117.1	2195.4	1989.0
50°	1700.0	1708.7	1751.9	1819.2	1867.5	1877.1	2071.0	2333.0	2341.0	2415.7	2191.7
52.5°	1648.7	1651.7	1760.7	1887.3	1984.6	2081.2	2302.2	2535.7	2559.1	2614.7	2373.9
55°	1476.0	1497.3	1662.6	1885.1	2076.8	2275.2	2549.6	2754.5	2775.7	2810.8	2534.2
57.5°	1275.5	1298.9	1500.2	1790.7	2116.4	2454.4	2778.6	2987.2	3001.8	3011.3	2681.3
60°	1102.1	1124.0	1331.1	1609.9	2076.8	2581.0	2991.6	3218.4	3230.9	3205.3	2755.2
62.5°	889.1	911.1	1119.6	1370.7	1921.7	2606.7	3149.6	3424.1	3429.2	3359.7	2709.8
65°	670.3	685.0	859.1	1074.3	1650.2	2470.5	3185.5	3552.1	3547.0	3404.3	2573.7
66°	600.8	613.2	766.9	949.9	1509.0	2346.1	3137.2	3562.4	3557.3	3371.4	2484.4
67.5°	518.1	521.8	648.4	777.2	1262.3	2082.0	2990.1	3515.5	3519.9	3280.6	2321.3
70°	404.7	404.0	477.1	540.8	862.1	1481.2	2494.0	3220.6	3241.9	2938.2	1979.5
72.5°	259.1	250.3	292.7	330.8	502.0	859.9	1818.5	2624.9	2660.8	2308.1	1474.6
75°	154.4	145.6	155.9	165.4	240.8	413.5	1069.2	1786.3	1820.7	1479.7	877.4
77.5°	115.6	112.0	112.7	104.6	106.8	155.1	488.1	944.0	968.9	605.9	333.0
80°	88.5	79.0	73.9	77.6	70.3	61.5	181.5	324.9	340.3	143.4	69.5
82.5°	59.3	51.2	47.6	52.0	44.6	34.4	43.9	62.9	61.5	38.8	27.1
85°	30.7	26.3	26.3	26.3	22.7	16.8	19.0	25.6	25.6	20.5	16.1
87.5°	8.8	8.0	9.5	8.8	6.6	6.6	7.3	8.8	8.8	8.0	7.3
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°	328.6	328.6	328.6	328.6	328.6	328.6	328.6	328.6	328.6	328.6	328.6
2.5°	327.8	324.9	316.9	311.0	305.2	300.0	294.2	292.7	289.8	290.5	289.1
5°	330.0	322.0	308.1	294.9	284.7	275.9	264.9	260.5	254.7	252.5	251.0
7.5°	333.0	321.3	300.8	282.5	264.9	247.3	229.8	219.5	213.0	210.0	207.8
10°	339.6	324.2	297.1	268.6	238.6	213.7	196.1	188.8	184.4	183.7	182.9
12.5°	348.3	328.6	293.4	251.0	211.5	188.1	177.1	174.9	174.2	174.2	173.4
15°	361.5	335.9	287.6	230.5	190.3	174.2	169.0	165.4	163.9	163.9	163.9
17.5°	374.7	344.7	278.8	209.3	175.6	165.4	160.3	158.1	156.6	157.3	156.6
20°	391.5	354.9	267.1	191.0	166.1	158.1	152.9	150.7	150.0	150.0	150.0
22.5°	410.5	366.6	252.5	177.1	158.1	150.7	145.6	143.4	142.0	142.7	142.7
25°	436.1	381.3	237.1	163.2	150.0	143.4	137.6	134.7	134.7	135.4	136.1
27.5°	469.1	398.8	221.7	154.4	142.7	136.1	129.5	126.6	127.3	128.8	128.8
30°	517.4	423.0	206.4	144.9	134.7	127.3	121.5	118.6	120.0	122.9	122.9
32.5°	586.2	462.5	193.2	133.9	122.9	114.9	109.0	106.8	110.5	116.4	116.4
35°	709.1	534.9	185.1	122.9	110.5	101.0	93.7	91.5	96.6	103.9	103.9
37.5°	873.8	651.3	188.1	113.4	100.3	89.3	81.2	78.3	82.0	88.5	90.7
40°	1057.4	791.8	213.7	105.4	90.7	79.8	71.7	68.8	71.0	73.9	74.6
42.5°	1241.1	941.1	262.0	99.5	83.4	71.7	64.4	62.2	63.7	64.4	65.1
45°	1424.1	1088.9	322.7	95.9	76.8	65.1	57.8	57.8	58.5	58.5	58.5
47.5°	1597.5	1233.1	386.4	95.1	71.0	58.5	52.7	53.4	53.4	54.2	54.2
50°	1761.4	1361.9	450.8	97.3	65.9	52.7	48.3	48.3	48.3	49.0	48.3
52.5°	1898.3	1474.6	518.1	101.0	60.7	48.3	43.9	43.9	43.9	44.6	43.9
55°	2027.8	1577.0	586.9	106.1	56.3	44.6	40.2	38.8	38.8	39.5	38.8
57.5°	2133.2	1645.1	652.0	106.8	52.7	41.0	37.3	35.1	35.1	35.1	35.1
60°	2137.6	1605.6	671.1	93.7	48.3	37.3	33.7	30.7	31.5	31.5	31.5
62.5°	1997.8	1397.7	539.3	70.3	43.2	33.7	30.7	27.8	27.8	27.8	27.8
65°	1723.4	1087.4	316.1	55.6	37.3	30.0	27.1	24.9	24.9	24.9	24.1
66°	1594.6	953.5	242.2	50.5	35.1	29.3	26.3	24.1	23.4	22.7	22.7
67.5°	1384.6	753.7	151.5	44.6	32.2	27.1	24.1	22.0	21.2	20.5	20.5
70°	1042.8	478.6	73.9	34.4	27.8	23.4	21.2	19.0	18.3	17.6	16.8
72.5°	731.8	280.3	38.8	26.3	22.7	20.5	18.3	16.1	15.4	14.6	14.6
75°	413.5	135.4	25.6	19.0	18.3	16.8	15.4	13.2	12.4	12.4	12.4
77.5°	156.6	46.8	17.6	13.9	14.6	13.2	11.0	11.0	10.2	11.0	10.2
80°	41.0	20.5	11.0	10.2	11.0	9.5	8.0	8.8	8.8	8.8	8.8
82.5°	22.0	11.7	6.6	7.3	6.6	6.6	5.1	5.9	6.6	5.9	6.6
85°	15.4	5.9	3.7	3.7	2.9	2.9	2.2	2.9	3.7	2.9	2.9
87.5°	8.0	2.2	2.2	2.2	2.2	1.5	0.7	0.0	0.7	0.7	0.7
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)