

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: P1210558

Luminaire Tested: **ARCH3-160-730-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210558
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: ARCH3-160-730-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1245mA 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: 15339 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 161
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



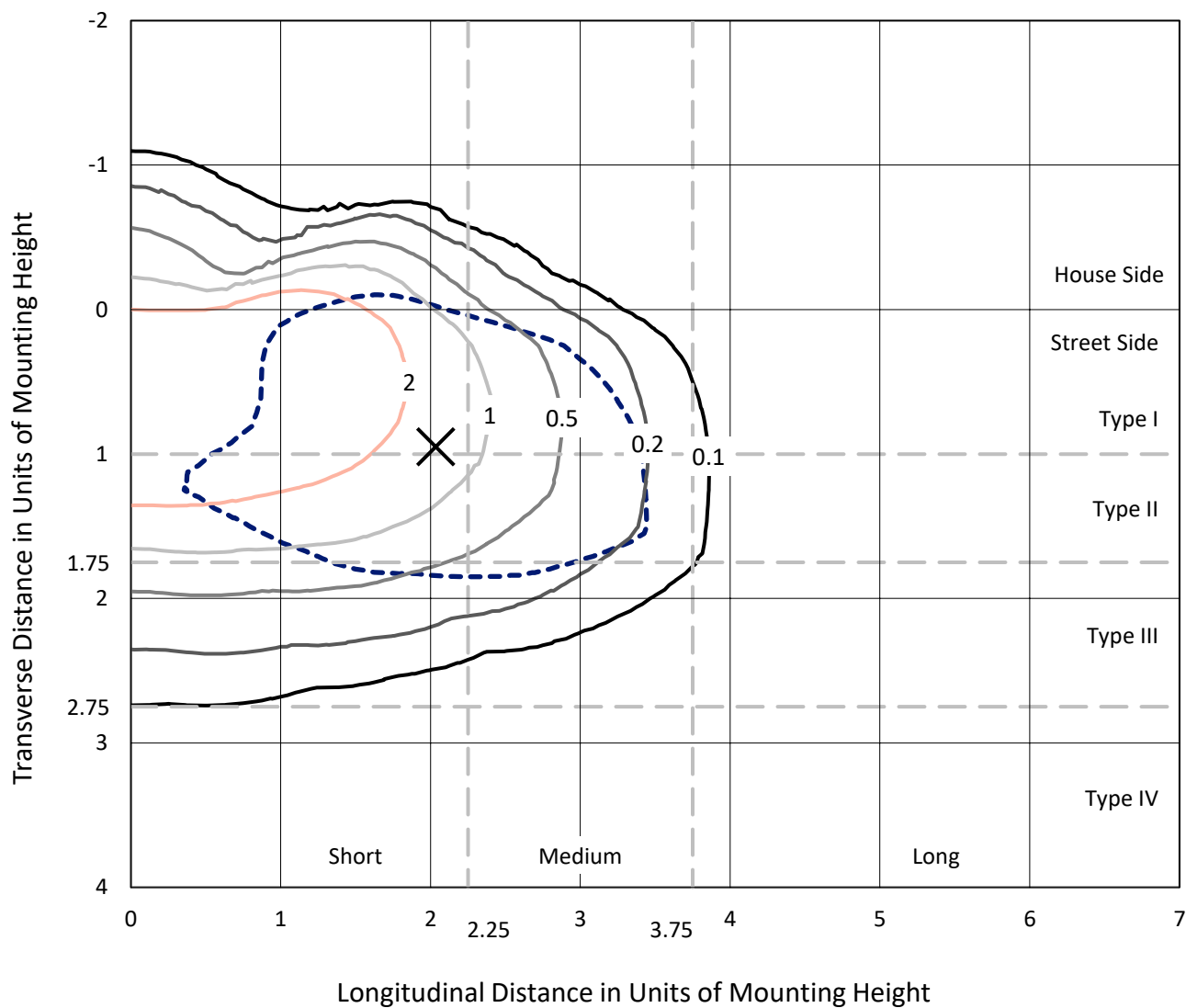
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

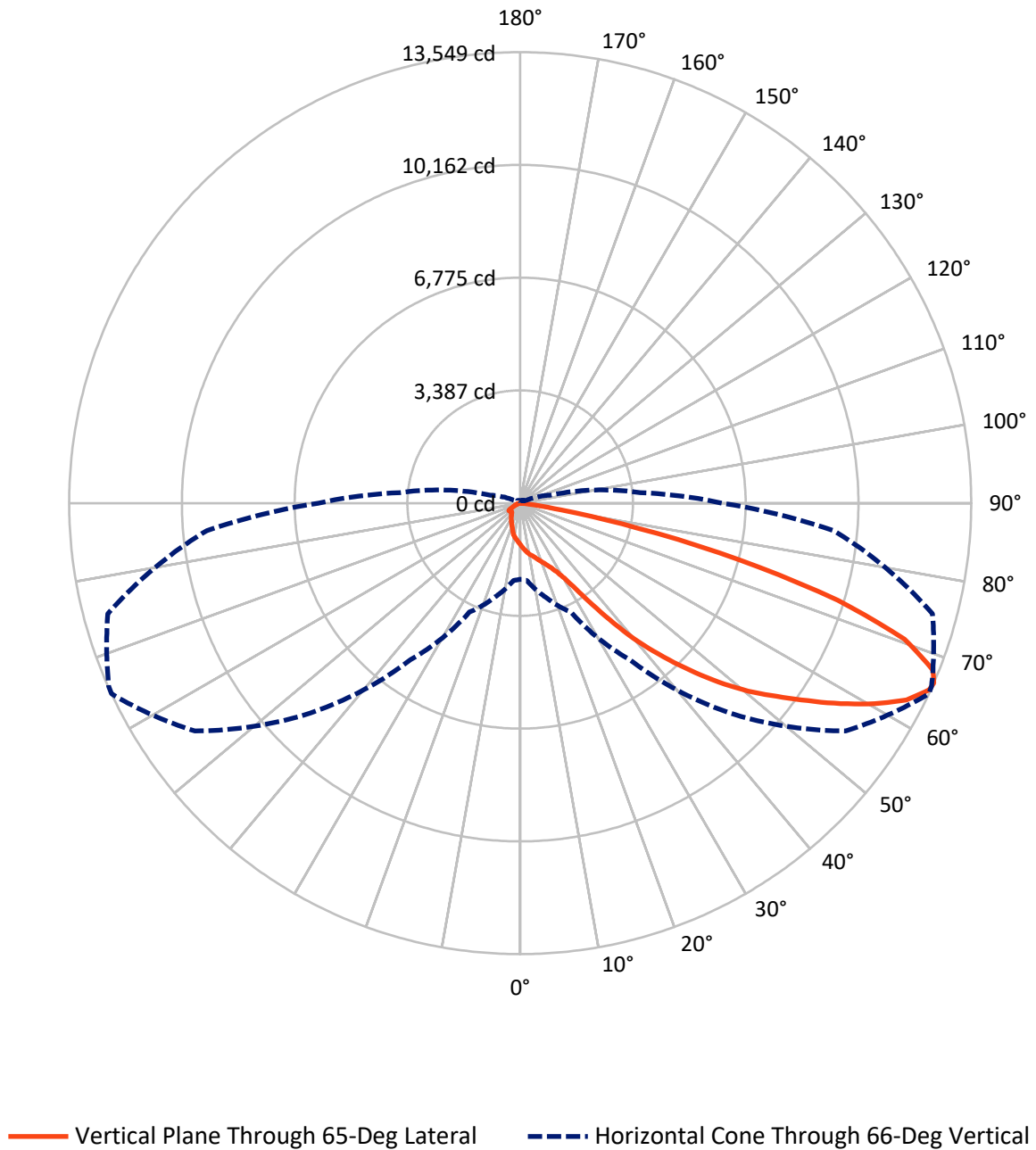
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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	1810.3	0.0	1810.3
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	13528.7	0.0	13528.7
	% Fixture	88.2	0.0	88.2
Total	Lumens	15339.0	0.0	15339.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.5	0.8
10°-20°	350.7	2.3
20°-30°	641.9	4.2
30°-40°	1304.4	8.5
40°-50°	2754.5	18.0
50°-60°	4234.5	27.6
60°-70°	4262.3	27.8
70°-80°	1592.6	10.4
80°-90°	79.5	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°	15339.0	100.0
0°-180°	15339.0	100.0

Coefficient of Utilization



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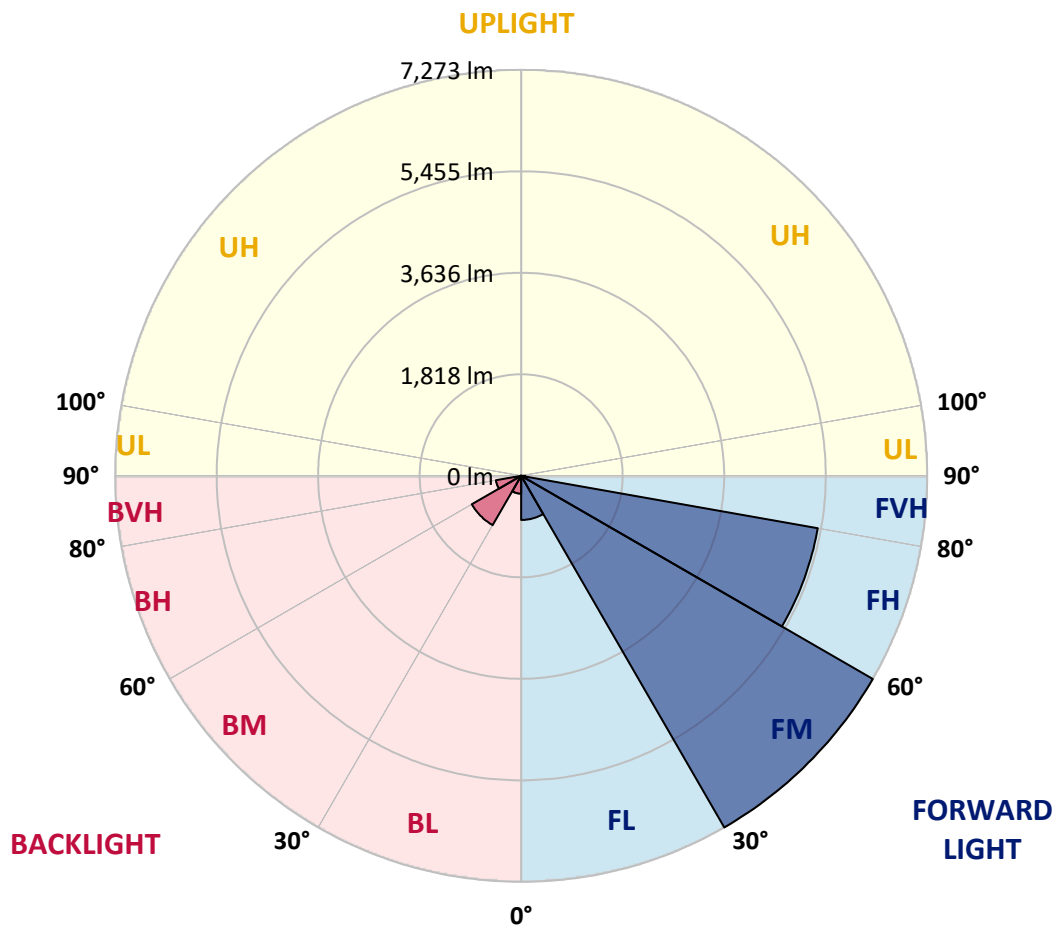
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	790.7	5.2			
FM	(30°-60°)	7272.7	47.4			
FH	(60°-80°)	5395.1	35.2			G3/7500
FVH	(80°-90°)	70.2	0.5			G1/100
BL	(0°-30°)	320.4	2.1	B1/500		
BM	(30°-60°)	1020.7	6.7	B2/2500		
BH	(60°-80°)	459.9	3.0	B1/500		G1/500
BVH	(80°-90°)	9.3	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1249.7	1249.7	1249.7	1249.7	1249.7	1249.7	1249.7	1249.7	1249.7	1249.7	1249.7
2.5°	1425.0	1427.8	1422.3	1411.1	1400.0	1386.1	1363.8	1327.6	1322.1	1297.0	1269.2
5°	1522.5	1528.0	1519.7	1516.9	1511.3	1491.8	1461.2	1408.3	1402.8	1352.7	1288.7
7.5°	1555.9	1564.2	1558.6	1558.6	1558.6	1550.3	1536.4	1489.1	1480.7	1416.7	1319.3
10°	1580.9	1586.5	1583.7	1594.8	1603.2	1597.6	1589.3	1561.4	1553.1	1489.1	1361.0
12.5°	1619.9	1622.7	1625.4	1631.0	1644.9	1650.5	1647.7	1622.7	1617.1	1572.6	1413.9
15°	1656.1	1656.1	1658.8	1683.9	1703.4	1714.5	1717.3	1697.8	1692.2	1656.1	1480.7
17.5°	1689.5	1692.2	1700.6	1728.4	1761.8	1784.1	1798.0	1789.7	1781.3	1753.5	1558.6
20°	1739.6	1745.1	1753.5	1792.4	1825.8	1862.0	1889.9	1887.1	1884.3	1864.8	1650.5
22.5°	1825.8	1831.4	1845.3	1881.5	1914.9	1959.4	2006.8	2004.0	1995.6	1981.7	1759.0
25°	1956.7	1956.7	1965.0	1995.6	2037.4	2090.3	2134.8	2143.1	2134.8	2126.4	1895.4
27.5°	2120.9	2123.6	2123.6	2157.0	2196.0	2262.8	2318.5	2326.8	2326.8	2318.5	2079.1
30°	2349.1	2340.7	2335.2	2363.0	2404.8	2502.2	2599.6	2616.3	2607.9	2621.9	2338.0
32.5°	2741.5	2727.6	2680.3	2685.9	2710.9	2844.5	3008.7	3067.2	3064.4	3089.5	2755.5
35°	3284.3	3256.4	3186.9	3128.4	3125.6	3270.4	3520.9	3740.7	3738.0	3824.2	3390.0
37.5°	3896.6	3932.8	3802.0	3701.8	3671.2	3785.3	4108.1	4584.1	4609.1	4759.4	4222.2
40°	4714.9	4737.2	4570.2	4428.2	4283.5	4325.2	4751.1	5491.4	5536.0	5703.0	5054.5
42.5°	5427.4	5449.7	5352.3	5179.7	4996.0	4918.1	5399.6	6315.3	6351.5	6582.5	5911.7
45°	5911.7	5928.4	5961.8	5978.5	5769.8	5608.3	6192.8	7161.4	7205.9	7473.1	6749.5
47.5°	6290.2	6304.2	6370.9	6537.9	6496.2	6368.2	7000.0	8040.9	8052.1	8349.9	7565.0
50°	6465.6	6499.0	6663.2	6919.3	7103.0	7139.1	7876.7	8873.1	8903.7	9187.6	8336.0
52.5°	6270.8	6281.9	6696.6	7178.1	7548.3	7915.7	8756.2	9644.1	9733.2	9944.7	9029.0
55°	5613.9	5694.6	6323.6	7169.8	7899.0	8653.2	9697.0	10476.3	10557.0	10690.6	9638.5
57.5°	4851.3	4940.3	5705.7	6810.7	8049.3	9335.2	10568.1	11361.4	11417.1	11453.2	10198.0
60°	4191.6	4275.1	5062.8	6123.2	7899.0	9816.7	11378.1	12240.9	12288.2	12190.8	10479.1
62.5°	3381.7	3465.2	4258.4	5213.1	7308.9	9914.1	11979.3	13023.0	13042.5	12778.1	10306.5
65°	2549.5	2605.2	3267.6	4085.9	6276.3	9396.4	12115.7	13510.1	13490.6	12947.9	9788.8
66°	2285.1	2332.4	2916.9	3612.7	5739.1	8923.2	11932.0	13549.1	13529.6	12822.6	9449.3
67.5°	1970.6	1984.5	2466.0	2955.9	4801.2	7918.5	11372.5	13370.9	13387.6	12477.5	8828.6
70°	1539.2	1536.4	1814.7	2056.9	3278.7	5633.4	9485.5	12249.3	12330.0	11174.9	7528.8
72.5°	985.3	951.9	1113.3	1258.0	1909.3	3270.4	6916.5	9983.7	10120.0	8778.5	5608.3
75°	587.3	553.9	592.8	629.0	915.7	1572.6	4066.4	6794.0	6924.8	5627.8	3337.2
77.5°	439.8	425.8	428.6	398.0	406.4	590.1	1856.5	3590.4	3685.1	2304.6	1266.4
80°	336.8	300.6	281.1	295.0	267.2	233.8	690.3	1235.8	1294.2	545.5	264.4
82.5°	225.4	194.8	180.9	197.6	169.8	130.8	167.0	239.4	233.8	147.5	103.0
85°	116.9	100.2	100.2	100.2	86.3	64.0	72.4	97.4	97.4	77.9	61.2
87.5°	33.4	30.6	36.2	33.4	25.0	25.0	27.8	33.4	33.4	30.6	27.8
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°	1249.7	1249.7	1249.7	1249.7	1249.7	1249.7	1249.7	1249.7	1249.7	1249.7	1249.7
2.5°	1246.9	1235.8	1205.2	1182.9	1160.6	1141.1	1118.9	1113.3	1102.2	1105.0	1099.4
5°	1255.3	1224.6	1171.8	1121.7	1082.7	1049.3	1007.6	990.9	968.6	960.2	954.7
7.5°	1266.4	1221.9	1143.9	1074.3	1007.6	940.8	874.0	835.0	809.9	798.8	790.5
10°	1291.4	1233.0	1130.0	1021.5	907.4	812.7	745.9	718.1	701.4	698.6	695.8
12.5°	1324.8	1249.7	1116.1	954.7	804.4	715.3	673.6	665.2	662.4	662.4	659.6
15°	1374.9	1277.5	1093.8	876.7	723.7	662.4	642.9	629.0	623.5	623.5	623.5
17.5°	1425.0	1310.9	1060.4	796.0	668.0	629.0	609.5	601.2	595.6	598.4	595.6
20°	1489.1	1349.9	1015.9	726.4	631.8	601.2	581.7	573.4	570.6	570.6	570.6
22.5°	1561.4	1394.4	960.2	673.6	601.2	573.4	553.9	545.5	540.0	542.7	542.7
25°	1658.8	1450.1	901.8	620.7	570.6	545.5	523.3	512.1	512.1	514.9	517.7
27.5°	1784.1	1516.9	843.3	587.3	542.7	517.7	492.6	481.5	484.3	489.9	489.9
30°	1967.8	1608.7	784.9	551.1	512.1	484.3	462.0	450.9	456.5	467.6	467.6
32.5°	2229.4	1759.0	734.8	509.3	467.6	437.0	414.7	406.4	420.3	442.5	442.5
35°	2697.0	2034.6	704.2	467.6	420.3	384.1	356.3	347.9	367.4	395.2	395.2
37.5°	3323.2	2477.1	715.3	431.4	381.3	339.6	308.9	297.8	311.7	336.8	345.1
40°	4021.9	3011.5	812.7	400.8	345.1	303.4	272.8	261.6	270.0	281.1	283.9
42.5°	4720.5	3579.3	996.4	378.5	317.3	272.8	244.9	236.6	242.1	244.9	247.7
45°	5416.3	4141.5	1227.4	364.6	292.2	247.7	219.9	219.9	222.7	222.7	222.7
47.5°	6075.9	4689.8	1469.6	361.8	270.0	222.7	200.4	203.2	203.2	206.0	206.0
50°	6699.4	5179.7	1714.5	370.2	250.5	200.4	183.7	183.7	183.7	186.5	183.7
52.5°	7219.9	5608.3	1970.6	384.1	231.0	183.7	167.0	167.0	167.0	169.8	167.0
55°	7712.5	5998.0	2232.2	403.6	214.3	169.8	153.1	147.5	147.5	150.3	147.5
57.5°	8113.3	6256.8	2479.9	406.4	200.4	155.9	141.9	133.6	133.6	133.6	133.6
60°	8130.0	6106.5	2552.3	356.3	183.7	141.9	128.0	116.9	119.7	119.7	119.7
62.5°	7598.4	5316.1	2051.3	267.2	164.2	128.0	116.9	105.8	105.8	105.8	105.8
65°	6554.6	4136.0	1202.4	211.5	141.9	114.1	103.0	94.6	94.6	94.6	91.8
66°	6064.8	3626.6	921.3	192.0	133.6	111.3	100.2	91.8	89.1	86.3	86.3
67.5°	5266.0	2866.8	576.1	169.8	122.5	103.0	91.8	83.5	80.7	77.9	77.9
70°	3966.2	1820.3	281.1	130.8	105.8	89.1	80.7	72.4	69.6	66.8	64.0
72.5°	2783.3	1066.0	147.5	100.2	86.3	77.9	69.6	61.2	58.4	55.7	55.7
75°	1572.6	514.9	97.4	72.4	69.6	64.0	58.4	50.1	47.3	47.3	47.3
77.5°	595.6	178.1	66.8	52.9	55.7	50.1	41.7	41.7	39.0	41.7	39.0
80°	155.9	77.9	41.7	39.0	41.7	36.2	30.6	33.4	33.4	33.4	33.4
82.5°	83.5	44.5	25.0	27.8	25.0	25.0	19.5	22.3	25.0	22.3	25.0
85°	58.4	22.3	13.9	13.9	11.1	11.1	8.3	11.1	13.9	11.1	11.1
87.5°	30.6	8.3	8.3	8.3	8.3	5.6	2.8	0.0	2.8	2.8	2.8
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)