

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: P1211034

Luminaire Tested: **ARCH4-150-727-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211034
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: ARCH4-150-727-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1230mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16369 lumens
Efficiency: N/A
Efficacy: 108.5 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 150.8
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



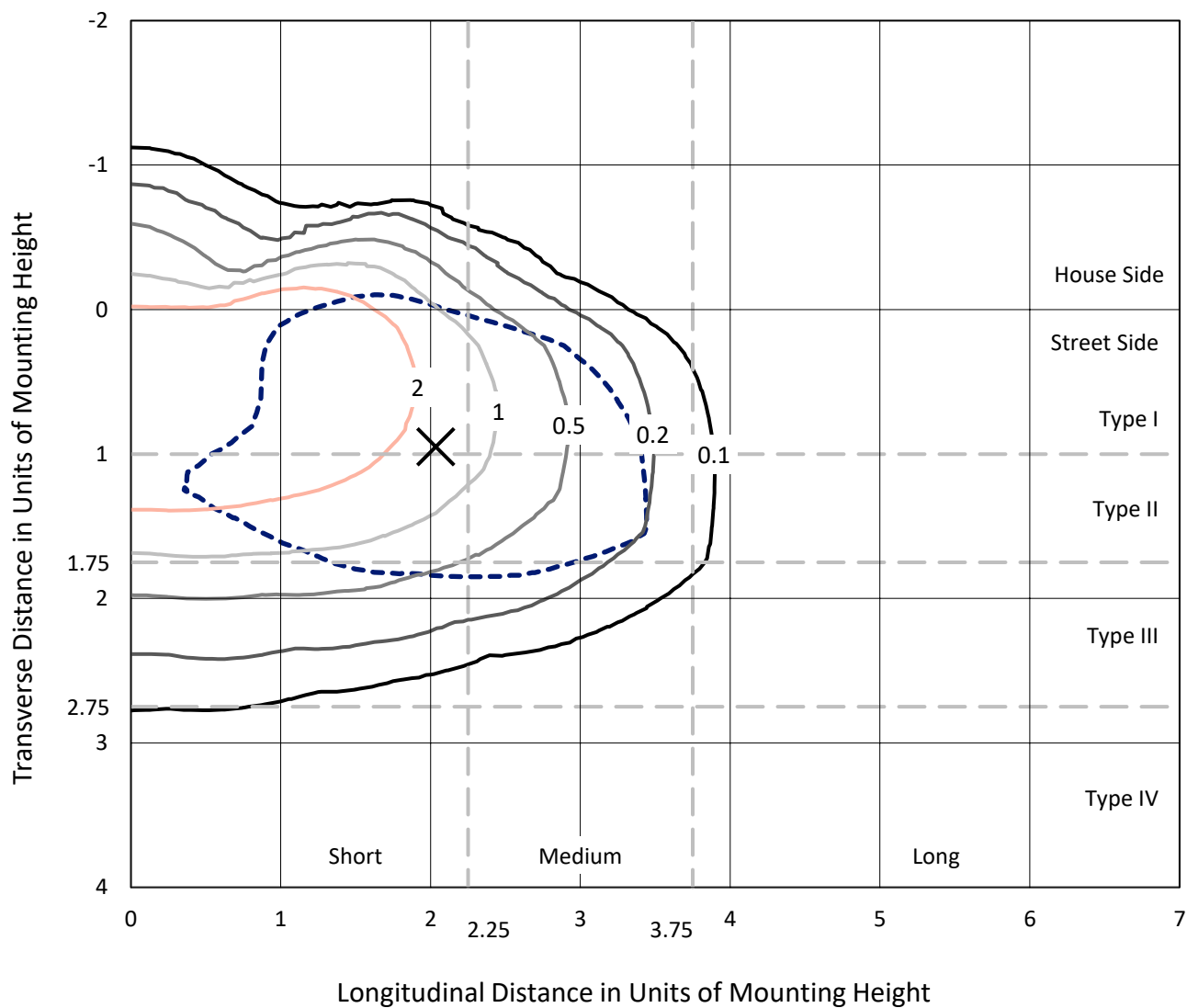
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

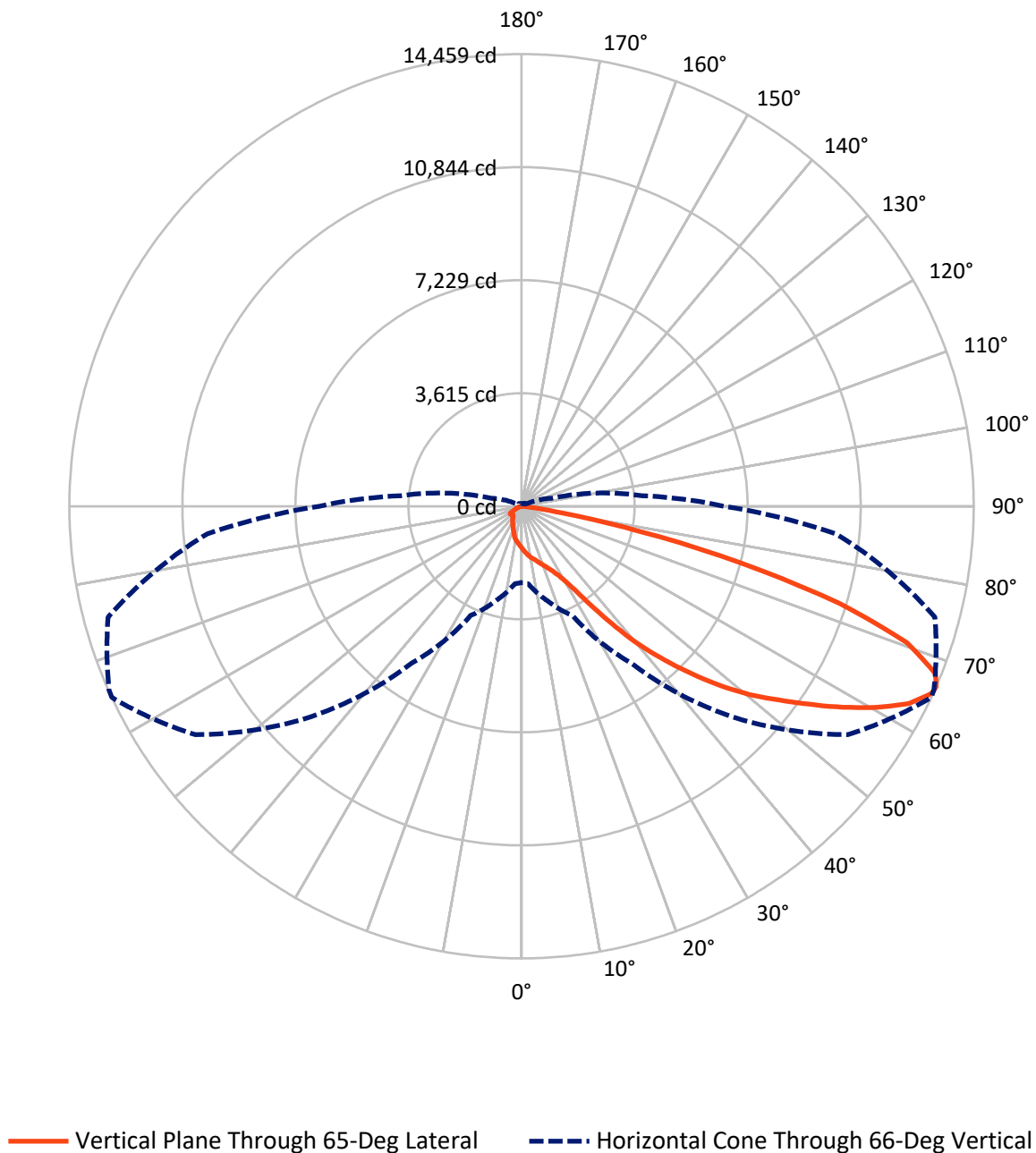
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 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	1931.9	0.0	1931.9
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	14437.1	0.0	14437.1
	% Fixture	88.2	0.0	88.2
Total	Lumens	16369.0	0.0	16369.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.4	0.8
10°-20°	374.3	2.3
20°-30°	685.0	4.2
30°-40°	1392.0	8.5
40°-50°	2939.4	18.0
50°-60°	4518.9	27.6
60°-70°	4548.6	27.8
70°-80°	1699.6	10.4
80°-90°	84.9	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°	16369.0	100.0
0°-180°	16369.0	100.0

Coefficient of Utilization



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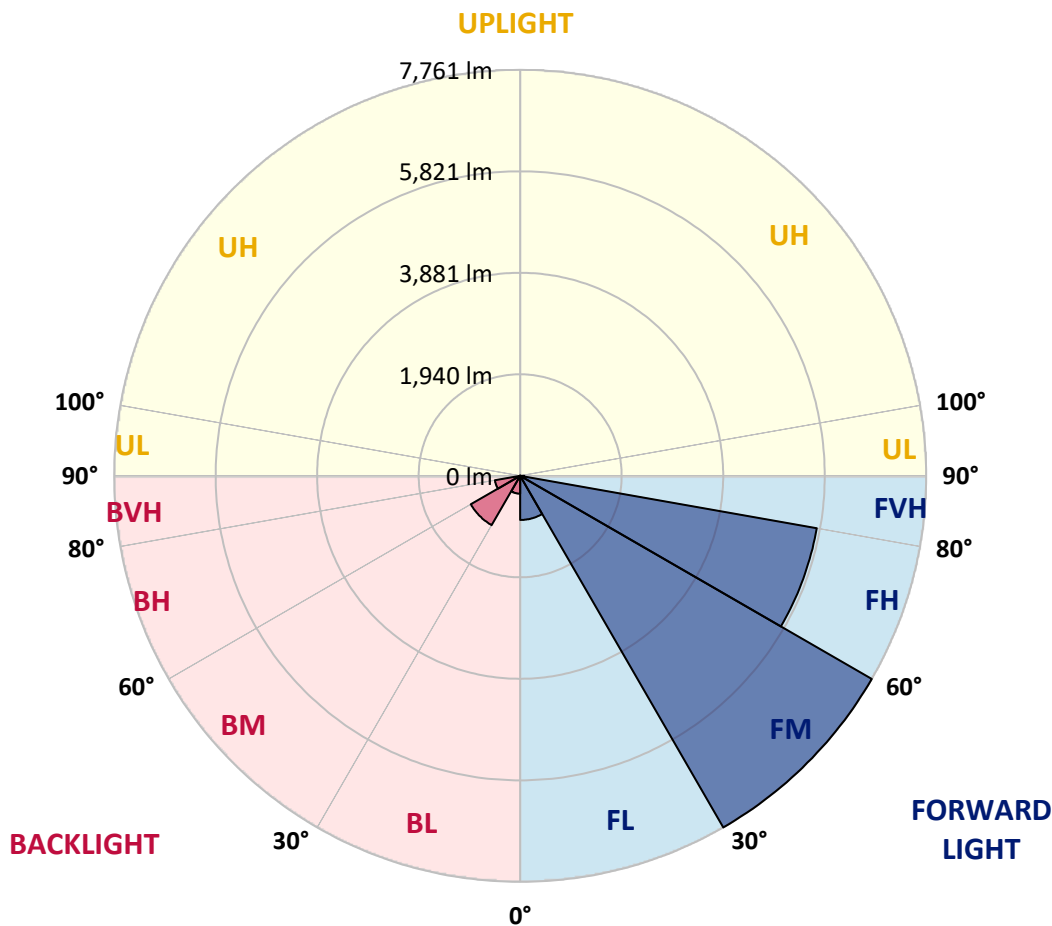
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	843.8	5.2			
FM	(30°-60°)	7761.0	47.4			
FH	(60°-80°)	5757.4	35.2			G3/7500
FVH	(80°-90°)	74.9	0.5			G1/100
BL	(0°-30°)	341.9	2.1	B1/500		
BM	(30°-60°)	1089.2	6.7	B2/2500		
BH	(60°-80°)	490.8	3.0	B1/500		G1/500
BVH	(80°-90°)	10.0	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	1333.6	1333.6	1333.6	1333.6	1333.6	1333.6	1333.6	1333.6	1333.6	1333.6	1333.6
2.5°	1520.7	1523.7	1517.8	1505.9	1494.0	1479.2	1455.4	1416.8	1410.8	1384.1	1354.4
5°	1624.7	1630.6	1621.7	1618.8	1612.8	1592.0	1559.3	1502.9	1497.0	1443.5	1375.2
7.5°	1660.3	1669.2	1663.3	1663.3	1663.3	1654.4	1639.5	1589.0	1580.1	1511.8	1407.9
10°	1687.1	1693.0	1690.0	1701.9	1710.8	1704.9	1696.0	1666.3	1657.4	1589.0	1452.4
12.5°	1728.6	1731.6	1734.6	1740.5	1755.4	1761.3	1758.3	1731.6	1725.7	1678.2	1508.9
15°	1767.3	1767.3	1770.2	1797.0	1817.8	1829.6	1832.6	1811.8	1805.9	1767.3	1580.1
17.5°	1802.9	1805.9	1814.8	1844.5	1880.1	1903.9	1918.7	1909.8	1900.9	1871.2	1663.3
20°	1856.4	1862.3	1871.2	1912.8	1948.4	1987.1	2016.8	2013.8	2010.8	1990.0	1761.3
22.5°	1948.4	1954.4	1969.2	2007.8	2043.5	2091.0	2141.5	2138.5	2129.6	2114.8	1877.2
25°	2088.0	2088.0	2097.0	2129.6	2174.2	2230.6	2278.1	2287.0	2278.1	2269.2	2022.7
27.5°	2263.3	2266.3	2266.3	2301.9	2343.5	2414.8	2474.2	2483.1	2483.1	2474.2	2218.7
30°	2506.8	2497.9	2492.0	2521.7	2566.2	2670.2	2774.2	2792.0	2783.1	2797.9	2495.0
32.5°	2925.6	2910.8	2860.3	2866.2	2893.0	3035.5	3210.8	3273.1	3270.2	3296.9	2940.5
35°	3504.8	3475.1	3400.9	3338.5	3335.5	3490.0	3757.3	3991.9	3989.0	4081.0	3617.7
37.5°	4158.3	4196.9	4057.3	3950.3	3917.7	4039.5	4384.0	4891.9	4918.6	5079.0	4505.8
40°	5031.5	5055.3	4877.0	4725.6	4571.1	4615.7	5070.1	5860.2	5907.7	6085.9	5393.9
42.5°	5791.9	5815.6	5711.7	5527.5	5331.5	5248.3	5762.2	6739.3	6778.0	7024.5	6308.7
45°	6308.7	6326.5	6362.1	6380.0	6157.2	5984.9	6608.7	7642.3	7689.8	7974.9	7202.7
47.5°	6712.6	6727.5	6798.8	6977.0	6932.4	6795.8	7470.0	8580.9	8592.7	8910.6	8073.0
50°	6899.7	6935.4	7110.6	7383.9	7579.9	7618.5	8405.6	9468.9	9501.6	9804.6	8895.7
52.5°	6691.8	6703.7	7146.3	7660.1	8055.1	8447.2	9344.2	10291.7	10386.7	10612.5	9635.3
55°	5990.9	6077.0	6748.3	7651.2	8429.4	9234.3	10348.1	11179.8	11265.9	11408.5	10285.7
57.5°	5177.0	5272.1	6088.9	7268.0	8589.8	9962.0	11277.8	12124.3	12183.7	12222.3	10882.8
60°	4473.1	4562.2	5402.8	6534.4	8429.4	10475.8	12142.1	13062.9	13113.4	13009.4	11182.7
62.5°	3608.8	3697.9	4544.4	5563.2	7799.7	10579.8	12783.7	13897.5	13918.3	13636.1	10998.6
65°	2720.7	2780.1	3487.0	4360.2	6697.8	10027.3	12929.2	14417.3	14396.5	13817.3	10446.1
66°	2438.5	2489.0	3112.8	3855.3	6124.5	9522.4	12733.2	14458.9	14438.1	13683.6	10083.8
67.5°	2102.9	2117.7	2631.6	3154.3	5123.6	8450.2	12136.2	14268.8	14286.6	13315.3	9421.4
70°	1642.5	1639.5	1936.6	2195.0	3498.9	6011.7	10122.4	13071.8	13157.9	11925.3	8034.3
72.5°	1051.4	1015.8	1188.1	1342.5	2037.5	3490.0	7380.9	10654.1	10799.6	9368.0	5984.9
75°	626.7	591.1	632.6	671.3	977.2	1678.2	4339.4	7250.2	7389.8	6005.7	3561.3
77.5°	469.3	454.4	457.4	424.7	433.6	629.7	1981.1	3831.5	3932.5	2459.3	1351.4
80°	359.4	320.8	300.0	314.8	285.1	249.5	736.6	1318.8	1381.1	582.2	282.2
82.5°	240.6	207.9	193.1	210.9	181.2	139.6	178.2	255.4	249.5	157.4	109.9
85°	124.7	106.9	106.9	106.9	92.1	68.3	77.2	104.0	104.0	83.2	65.3
87.5°	35.6	32.7	38.6	35.6	26.7	26.7	29.7	35.6	35.6	32.7	29.7
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°	1333.6	1333.6	1333.6	1333.6	1333.6	1333.6	1333.6	1333.6	1333.6	1333.6	1333.6
2.5°	1330.6	1318.8	1286.1	1262.3	1238.6	1217.8	1194.0	1188.1	1176.2	1179.2	1173.2
5°	1339.6	1306.9	1250.4	1197.0	1155.4	1119.8	1075.2	1057.4	1033.6	1024.7	1018.8
7.5°	1351.4	1303.9	1220.7	1146.5	1075.2	1003.9	932.6	891.1	864.3	852.4	843.5
10°	1378.2	1315.8	1205.9	1090.1	968.3	867.3	796.0	766.3	748.5	745.5	742.5
12.5°	1413.8	1333.6	1191.0	1018.8	858.4	763.3	718.8	709.9	706.9	706.9	703.9
15°	1467.3	1363.3	1167.3	935.6	772.2	706.9	686.1	671.3	665.3	665.3	665.3
17.5°	1520.7	1399.0	1131.6	849.5	712.8	671.3	650.5	641.6	635.6	638.6	635.6
20°	1589.0	1440.5	1084.1	775.2	674.2	641.6	620.8	611.9	608.9	608.9	608.9
22.5°	1666.3	1488.1	1024.7	718.8	641.6	611.9	591.1	582.2	576.2	579.2	579.2
25°	1770.2	1547.5	962.3	662.4	608.9	582.2	558.4	546.5	546.5	549.5	552.5
27.5°	1903.9	1618.8	900.0	626.7	579.2	552.5	525.7	513.8	516.8	522.8	522.8
30°	2099.9	1716.8	837.6	588.1	546.5	516.8	493.1	481.2	487.1	499.0	499.0
32.5°	2379.1	1877.2	784.1	543.5	499.0	466.3	442.6	433.6	448.5	472.3	472.3
35°	2878.1	2171.2	751.5	499.0	448.5	409.9	380.2	371.3	392.1	421.8	421.8
37.5°	3546.4	2643.5	763.3	460.4	406.9	362.4	329.7	317.8	332.7	359.4	368.3
40°	4291.9	3213.7	867.3	427.7	368.3	323.8	291.1	279.2	288.1	300.0	303.0
42.5°	5037.4	3819.7	1063.3	403.9	338.6	291.1	261.4	252.5	258.4	261.4	264.3
45°	5780.0	4419.6	1309.9	389.1	311.9	264.3	234.6	234.6	237.6	237.6	237.6
47.5°	6483.9	5004.8	1568.3	386.1	288.1	237.6	213.9	216.8	216.8	219.8	219.8
50°	7149.2	5527.5	1829.6	395.0	267.3	213.9	196.0	196.0	196.0	199.0	196.0
52.5°	7704.7	5984.9	2102.9	409.9	246.5	196.0	178.2	178.2	178.2	181.2	178.2
55°	8230.4	6400.7	2382.1	430.7	228.7	181.2	163.4	157.4	157.4	160.4	157.4
57.5°	8658.1	6677.0	2646.4	433.6	213.9	166.3	151.5	142.6	142.6	142.6	142.6
60°	8675.9	6516.6	2723.7	380.2	196.0	151.5	136.6	124.7	127.7	127.7	127.7
62.5°	8108.6	5673.1	2189.0	285.1	175.2	136.6	124.7	112.9	112.9	112.9	112.9
65°	6994.8	4413.7	1283.1	225.7	151.5	121.8	109.9	101.0	101.0	101.0	98.0
66°	6472.0	3870.2	983.1	204.9	142.6	118.8	106.9	98.0	95.0	92.1	92.1
67.5°	5619.6	3059.3	614.8	181.2	130.7	109.9	98.0	89.1	86.1	83.2	83.2
70°	4232.5	1942.5	300.0	139.6	112.9	95.0	86.1	77.2	74.3	71.3	68.3
72.5°	2970.2	1137.6	157.4	106.9	92.1	83.2	74.3	65.3	62.4	59.4	59.4
75°	1678.2	549.5	104.0	77.2	74.3	68.3	62.4	53.5	50.5	50.5	50.5
77.5°	635.6	190.1	71.3	56.4	59.4	53.5	44.6	44.6	41.6	44.6	41.6
80°	166.3	83.2	44.6	41.6	44.6	38.6	32.7	35.6	35.6	35.6	35.6
82.5°	89.1	47.5	26.7	29.7	26.7	26.7	20.8	23.8	26.7	23.8	26.7
85°	62.4	23.8	14.9	14.9	11.9	11.9	8.9	11.9	14.9	11.9	11.9
87.5°	32.7	8.9	8.9	8.9	8.9	5.9	3.0	0.0	3.0	3.0	3.0
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)