

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: P1210836

Luminaire Tested: **ARCH3-90-722-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210836
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-90-722-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 735mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8897 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 93.1
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



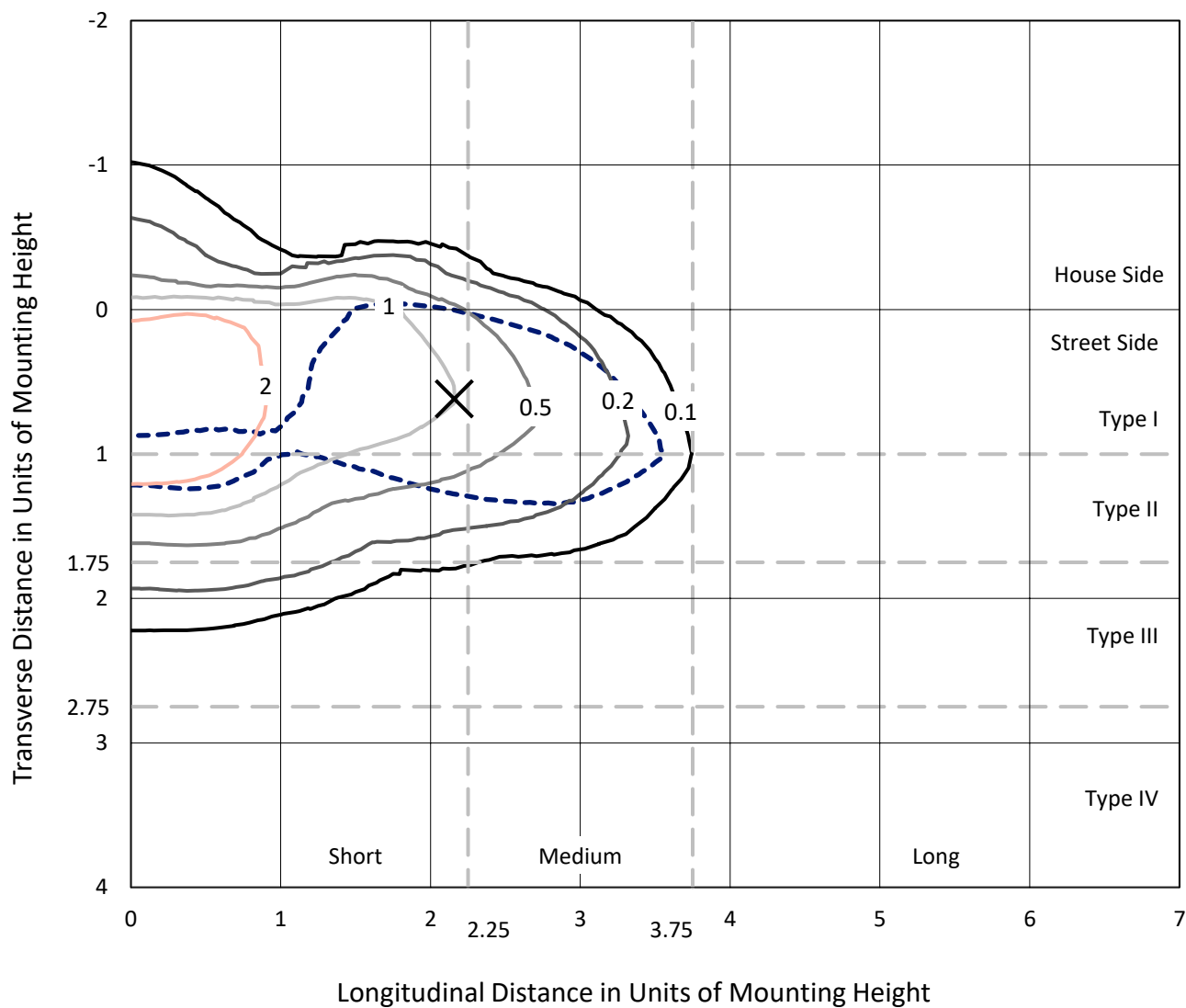
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

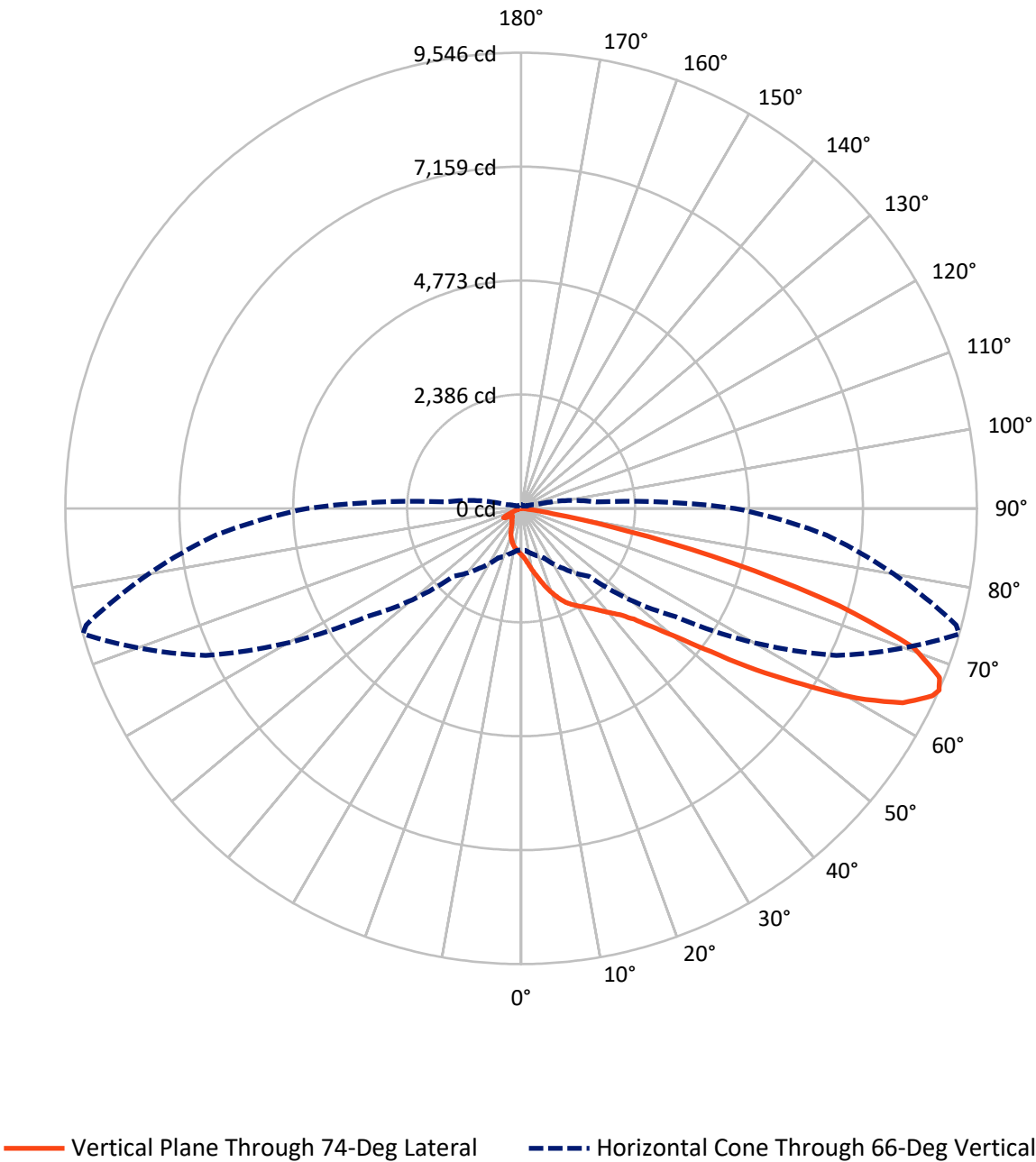
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	872.2	0.0	872.2
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	8024.8	0.0	8024.8
	% Fixture	90.2	0.0	90.2
Total	Lumens	8897.0	0.0	8897.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.8	1.1
10°-20°	303.9	3.4
20°-30°	580.0	6.5
30°-40°	1016.5	11.4
40°-50°	1743.1	19.6
50°-60°	2267.0	25.5
60°-70°	2052.2	23.1
70°-80°	791.9	8.9
80°-90°	47.7	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°	8897.0	100.0
0°-180°	8897.0	100.0

Coefficient of Utilization



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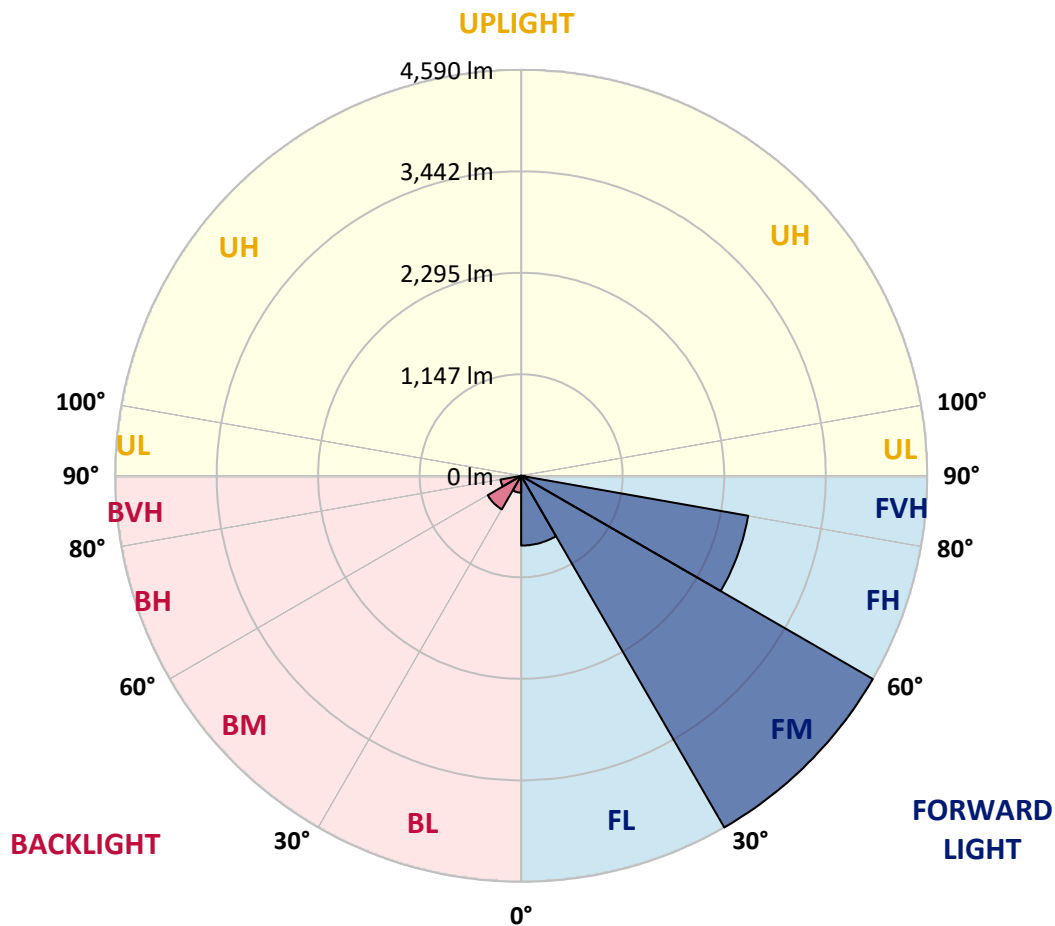
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	788.4	8.9			
FM	(30°-60°)	4589.5	51.6			
FH	(60°-80°)	2605.6	29.3			G2/5000
FVH	(80°-90°)	41.3	0.5			G1/100
BL	(0°-30°)	190.2	2.1	B1/500		
BM	(30°-60°)	437.1	4.9	B1/1000		
BH	(60°-80°)	238.4	2.7	B1/500		G1/500
BVH	(80°-90°)	6.4	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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	971.2	971.2	971.2	971.2	971.2	971.2	971.2	971.2	971.2	971.2	971.2
2.5°	1166.1	1156.5	1138.9	1137.3	1122.9	1105.4	1075.0	1043.1	1020.7	1017.5	990.4
5°	1396.1	1391.3	1373.7	1362.5	1335.4	1293.8	1223.6	1153.3	1094.2	1087.8	1027.1
7.5°	1456.8	1460.0	1463.2	1474.3	1464.8	1445.6	1392.9	1293.8	1201.2	1186.8	1081.4
10°	1466.4	1463.2	1463.2	1477.5	1504.7	1531.9	1525.5	1440.8	1321.0	1303.4	1156.5
12.5°	1570.2	1575.0	1563.8	1557.4	1552.6	1567.0	1614.9	1578.2	1447.2	1432.8	1247.5
15°	1704.4	1702.8	1686.8	1686.8	1672.4	1648.5	1678.8	1706.0	1598.9	1581.4	1351.4
17.5°	1801.8	1808.2	1806.6	1816.2	1811.4	1779.4	1763.5	1819.4	1755.5	1733.1	1469.6
20°	1880.1	1897.6	1904.0	1934.4	1948.8	1926.4	1884.9	1920.0	1905.6	1884.9	1589.4
22.5°	1963.1	1977.5	1988.7	2041.4	2081.3	2076.5	2023.8	2015.8	2051.0	2031.8	1707.6
25°	2046.2	2052.6	2086.1	2150.0	2213.9	2229.9	2175.6	2113.3	2182.0	2164.4	1813.0
27.5°	2137.2	2140.4	2180.4	2258.6	2348.1	2381.6	2338.5	2223.5	2282.6	2282.6	1908.8
30°	2303.4	2335.3	2351.3	2421.6	2499.8	2546.2	2495.0	2340.1	2372.1	2386.4	2009.5
32.5°	2661.2	2666.0	2661.2	2691.5	2707.5	2734.7	2675.5	2471.1	2463.1	2479.1	2108.5
35°	3207.5	3188.3	3137.2	3092.5	2999.8	2948.7	2872.0	2638.8	2574.9	2597.3	2205.9
37.5°	3870.4	3843.2	3726.6	3589.2	3391.2	3186.7	3090.9	2843.3	2717.1	2745.8	2311.4
40°	4502.9	4485.3	4346.4	4177.1	3838.4	3488.6	3285.7	3015.8	2875.2	2886.4	2418.4
42.5°	5023.6	5020.4	4903.8	4726.5	4292.1	3814.5	3515.8	3185.1	3041.3	3058.9	2530.2
45°	5418.2	5387.8	5301.6	5173.8	4731.3	4153.1	3793.7	3442.3	3308.1	3328.9	2697.9
47.5°	5418.2	5423.0	5478.9	5466.1	5038.0	4471.0	4097.2	3766.5	3702.6	3721.8	2974.3
50°	4977.3	5022.0	5271.2	5480.5	5197.8	4718.6	4424.6	4172.3	4237.8	4266.5	3456.6
52.5°	4105.2	4180.2	4613.1	5090.7	5079.6	4843.1	4763.3	4688.2	4982.1	5033.2	4169.1
55°	3119.6	3169.1	3733.0	4360.7	4565.2	4740.9	5058.8	5343.1	5967.7	5956.5	4892.7
57.5°	2330.5	2376.8	2862.4	3558.9	3828.8	4298.4	5210.5	6092.3	6945.2	6988.4	5571.5
60°	1713.9	1749.1	2162.8	2734.7	3124.4	3621.2	5149.8	6830.2	8071.4	8021.9	6170.5
62.5°	1268.3	1287.5	1586.2	1958.3	2475.9	2950.3	4768.1	7335.0	8970.7	8870.0	6504.4
65°	980.8	987.2	1142.1	1340.2	1800.2	2293.8	4199.4	7411.7	9467.5	9360.4	6498.0
66°	873.7	878.5	991.9	1145.3	1531.9	2007.9	3950.2	7288.7	9545.7	9432.3	6418.1
67.5°	733.2	730.0	797.1	897.7	1150.1	1549.4	3507.8	6929.3	9453.1	9395.6	6162.5
70°	543.1	544.7	578.2	602.2	672.5	857.8	2533.4	6010.8	8711.9	8708.7	5461.3
72.5°	402.5	407.3	432.9	437.7	420.1	464.8	1460.0	4780.8	6969.2	6970.8	4082.8
75°	301.9	309.9	317.9	321.1	305.1	293.9	659.7	3217.0	4584.4	4550.8	2311.4
77.5°	230.0	233.2	239.6	234.8	231.6	202.9	274.7	1568.6	2263.4	2062.2	749.2
80°	167.7	167.7	174.1	167.7	166.1	145.4	150.2	503.2	664.5	552.7	161.3
82.5°	105.4	103.8	108.6	107.0	103.8	92.6	87.9	140.6	153.3	137.4	78.3
85°	59.1	57.5	55.9	54.3	49.5	41.5	47.9	52.7	70.3	71.9	55.9
87.5°	20.8	20.8	19.2	17.6	14.4	14.4	17.6	17.6	25.6	25.6	28.8
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°	971.2	971.2	971.2	971.2	971.2	971.2	971.2	971.2	971.2	971.2	971.2
2.5°	977.6	960.0	934.4	900.9	876.9	853.0	827.4	813.0	792.3	787.5	793.9
5°	995.1	963.2	899.3	829.0	768.3	714.0	662.9	632.5	602.2	591.0	595.8
7.5°	1031.9	977.6	869.0	755.5	654.9	573.4	512.7	477.6	450.5	439.3	442.5
10°	1086.2	1003.1	840.2	672.5	543.1	456.8	405.7	383.4	367.4	361.0	362.6
12.5°	1151.7	1039.9	803.5	589.4	447.3	372.2	348.2	343.4	340.2	337.0	338.6
15°	1225.2	1071.8	760.3	508.0	372.2	330.6	322.7	321.1	319.5	319.5	319.5
17.5°	1301.8	1100.6	712.4	431.3	324.3	305.1	300.3	300.3	300.3	301.9	301.9
20°	1373.7	1122.9	656.5	362.6	297.1	281.1	277.9	277.9	279.5	281.1	281.1
22.5°	1444.0	1132.5	591.0	314.7	274.7	260.4	255.6	255.6	255.6	257.2	257.2
25°	1504.7	1132.5	525.5	284.3	255.6	241.2	234.8	233.2	234.8	234.8	234.8
27.5°	1555.8	1127.7	461.6	263.6	236.4	222.0	215.6	214.0	217.2	218.8	218.8
30°	1610.1	1121.3	410.5	244.4	220.4	206.1	199.7	199.7	204.5	210.8	210.8
32.5°	1662.8	1126.1	370.6	228.4	204.5	193.3	186.9	188.5	198.1	207.7	207.7
35°	1718.7	1135.7	346.6	217.2	193.3	182.1	177.3	182.1	191.7	201.3	201.3
37.5°	1774.6	1146.9	332.2	207.7	183.7	172.5	169.3	175.7	186.9	196.5	198.1
40°	1833.7	1156.5	316.3	198.1	177.3	164.5	162.9	169.3	183.7	193.3	194.9
42.5°	1907.2	1175.6	297.1	190.1	170.9	154.9	156.5	161.3	175.7	190.1	191.7
45°	2051.0	1236.3	277.9	182.1	162.9	150.2	147.0	150.2	166.1	182.1	185.3
47.5°	2320.9	1373.7	257.2	174.1	154.9	147.0	134.2	137.4	151.7	169.3	170.9
50°	2838.5	1666.0	246.0	166.1	148.6	135.8	121.4	121.4	132.6	148.6	148.6
52.5°	3645.1	2190.0	252.4	159.7	140.6	124.6	110.2	108.6	115.0	126.2	126.2
55°	4515.7	2765.0	276.3	153.3	131.0	118.2	102.2	94.2	99.0	105.4	105.4
57.5°	5205.7	3054.1	341.8	150.2	119.8	113.4	92.6	81.5	86.3	92.6	92.6
60°	5509.2	2884.8	415.3	153.3	111.8	105.4	83.1	71.9	79.9	86.3	87.9
62.5°	5263.2	2375.2	445.7	145.4	100.6	94.2	81.5	67.1	76.7	81.5	83.1
65°	4731.3	1805.0	348.2	126.2	92.6	81.5	73.5	63.9	71.9	76.7	76.7
66°	4478.9	1573.4	297.1	116.6	89.5	76.7	70.3	63.9	70.3	73.5	75.1
67.5°	4087.6	1241.1	220.4	102.2	83.1	70.3	65.5	60.7	67.1	70.3	70.3
70°	3196.3	739.6	132.6	79.9	71.9	62.3	59.1	55.9	60.7	62.3	62.3
72.5°	2001.5	351.4	84.7	59.1	60.7	59.1	49.5	52.7	54.3	55.9	55.9
75°	969.6	139.0	57.5	43.1	49.5	55.9	39.9	46.3	47.9	51.1	49.5
77.5°	270.0	67.1	36.7	31.9	43.1	43.1	30.3	36.7	43.1	54.3	49.5
80°	78.3	43.1	24.0	24.0	30.3	30.3	20.8	25.6	28.8	31.9	33.5
82.5°	54.3	28.8	16.0	17.6	17.6	19.2	12.8	12.8	16.0	16.0	17.6
85°	43.1	12.8	9.6	11.2	8.0	9.6	6.4	6.4	8.0	6.4	6.4
87.5°	17.6	6.4	6.4	6.4	4.8	4.8	3.2	1.6	1.6	1.6	1.6
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)