

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: P1210300

Luminaire Tested: **ARCH2-80-730-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210300
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: ARCH2-80-730-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 630mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8046 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 84.3
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

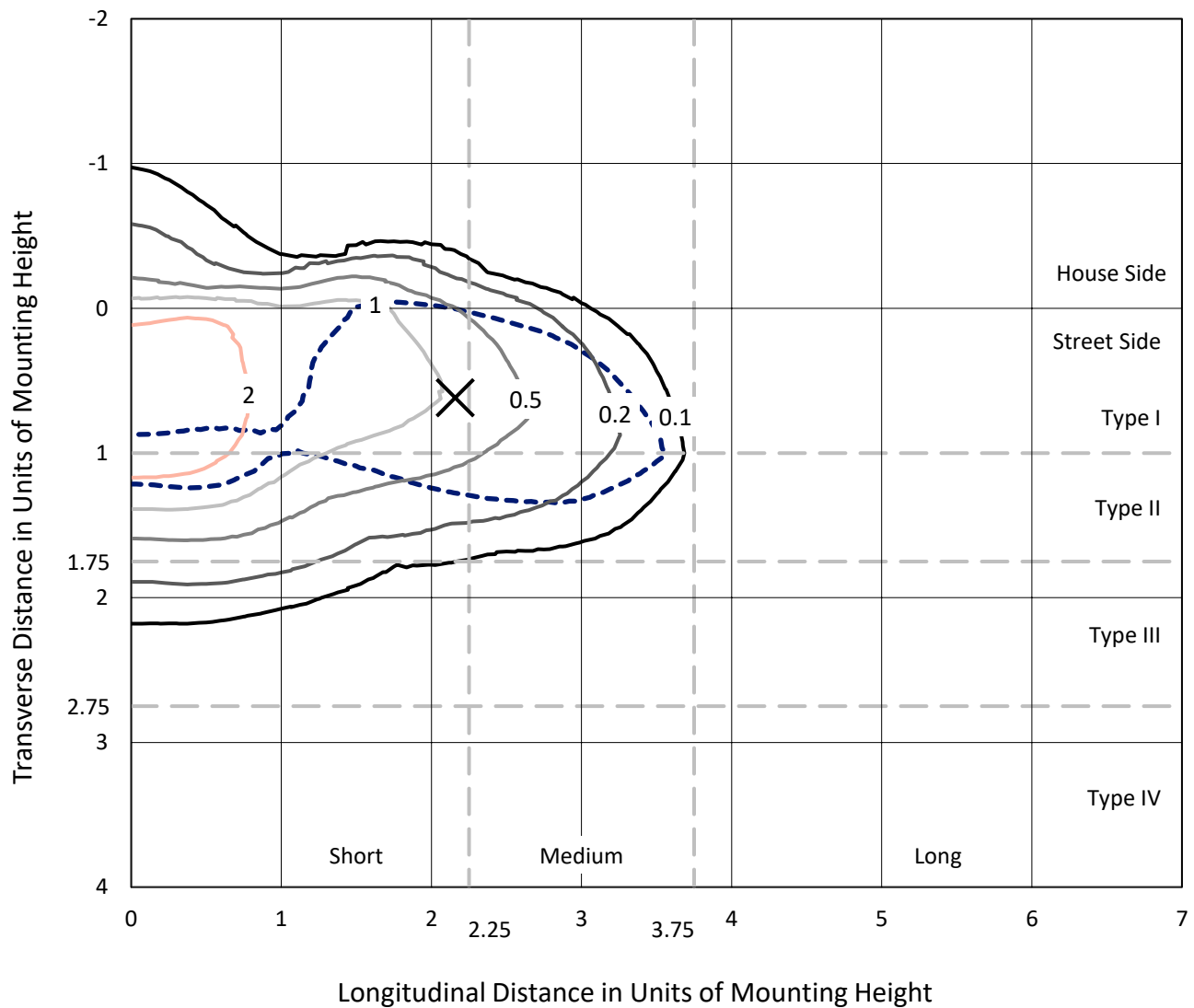


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Iso-Footcandle Lines of Horizontal Illumination

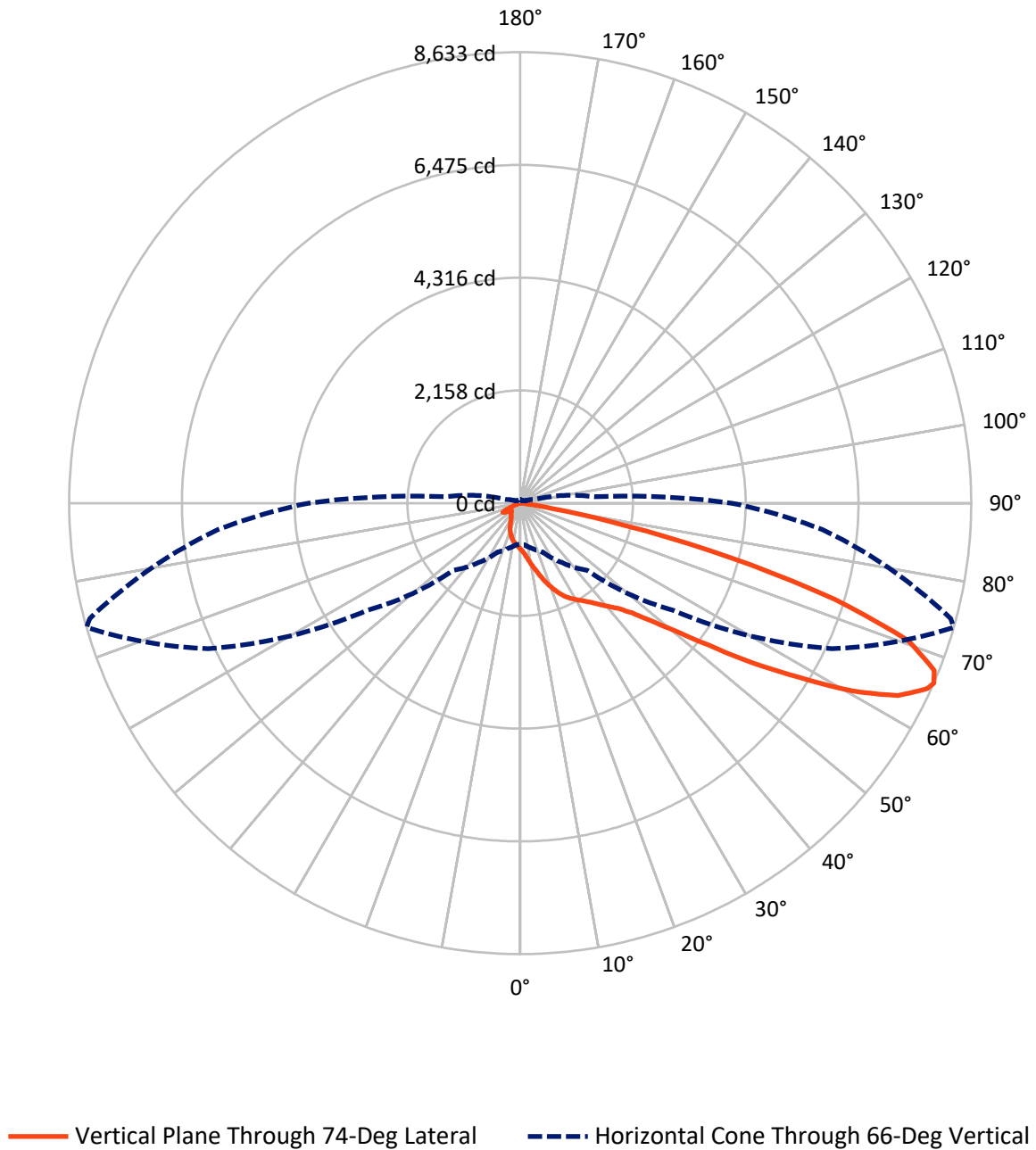
× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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	788.8	0.0	788.8
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	7257.2	0.0	7257.2
	% Fixture	90.2	0.0	90.2
Total	Lumens	8046.0	0.0	8046.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.7	1.1
10°-20°	274.8	3.4
20°-30°	524.5	6.5
30°-40°	919.3	11.4
40°-50°	1576.4	19.6
50°-60°	2050.2	25.5
60°-70°	1855.9	23.1
70°-80°	716.1	8.9
80°-90°	43.1	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°	8046.0	100.0
0°-180°	8046.0	100.0

Coefficient of Utilization



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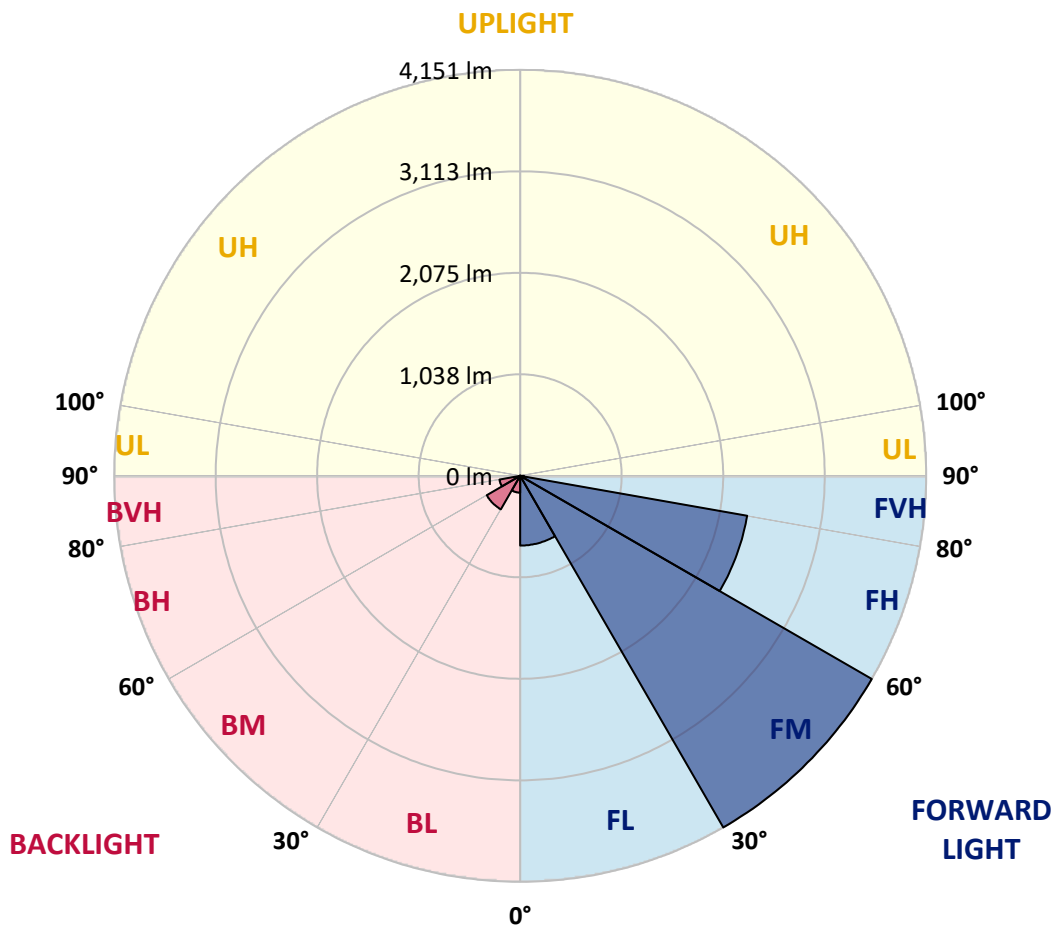
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	713.0	8.9			
FM	(30°-60°)	4150.5	51.6			
FH	(60°-80°)	2356.4	29.3			G2/5000
FVH	(80°-90°)	37.3	0.5			G1/100
BL	(0°-30°)	172.0	2.1	B1/500		
BM	(30°-60°)	395.3	4.9	B1/1000		
BH	(60°-80°)	215.6	2.7	B1/500		G1/500
BVH	(80°-90°)	5.8	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°	878.3	878.3	878.3	878.3	878.3	878.3	878.3	878.3	878.3	878.3	878.3
2.5°	1054.5	1045.9	1030.0	1028.5	1015.5	999.6	972.2	943.3	923.1	920.2	895.6
5°	1262.5	1258.2	1242.3	1232.2	1207.6	1170.1	1106.5	1043.0	989.5	983.7	928.8
7.5°	1317.4	1320.3	1323.2	1333.3	1324.7	1307.3	1259.7	1170.1	1086.3	1073.3	978.0
10°	1326.1	1323.2	1323.2	1336.2	1360.8	1385.3	1379.6	1303.0	1194.6	1178.8	1045.9
12.5°	1420.0	1424.3	1414.2	1408.4	1404.1	1417.1	1460.4	1427.2	1308.8	1295.8	1128.2
15°	1541.3	1539.9	1525.5	1525.5	1512.5	1490.8	1518.2	1542.8	1446.0	1430.1	1222.1
17.5°	1629.5	1635.2	1633.8	1642.5	1638.1	1609.2	1594.8	1645.4	1587.6	1567.3	1329.0
20°	1700.2	1716.1	1721.9	1749.4	1762.4	1742.1	1704.6	1736.4	1723.4	1704.6	1437.3
22.5°	1775.4	1788.4	1798.5	1846.1	1882.3	1877.9	1830.3	1823.0	1854.8	1837.5	1544.2
25°	1850.5	1856.3	1886.6	1944.4	2002.2	2016.6	1967.5	1911.1	1973.3	1957.4	1639.6
27.5°	1932.8	1935.7	1971.8	2042.6	2123.5	2153.8	2114.8	2010.8	2064.3	2064.3	1726.2
30°	2083.1	2111.9	2126.4	2189.9	2260.7	2302.6	2256.4	2116.3	2145.2	2158.2	1817.3
32.5°	2406.6	2411.0	2406.6	2434.1	2448.5	2473.1	2419.6	2234.7	2227.5	2242.0	1906.8
35°	2900.7	2883.3	2837.1	2796.7	2712.9	2666.7	2597.3	2386.4	2328.6	2348.8	1994.9
37.5°	3500.2	3475.6	3370.2	3245.9	3066.8	2881.9	2795.2	2571.3	2457.2	2483.2	2090.3
40°	4072.2	4056.3	3930.6	3777.5	3471.3	3154.9	2971.5	2727.3	2600.2	2610.3	2187.1
42.5°	4543.1	4540.2	4434.8	4274.4	3881.5	3449.6	3179.5	2880.4	2750.4	2766.3	2288.2
45°	4899.9	4872.5	4794.5	4678.9	4278.8	3755.8	3430.8	3113.0	2991.7	3010.5	2439.9
47.5°	4899.9	4904.3	4954.8	4943.3	4556.1	4043.3	3705.3	3406.3	3348.5	3365.8	2689.8
50°	4501.2	4541.7	4767.0	4956.3	4700.6	4267.2	4001.4	3773.2	3832.4	3858.4	3126.0
52.5°	3712.5	3780.4	4171.9	4603.8	4593.7	4379.9	4307.7	4239.8	4505.6	4551.8	3770.3
55°	2821.2	2866.0	3375.9	3943.6	4128.5	4287.4	4574.9	4832.0	5396.9	5386.8	4424.7
57.5°	2107.6	2149.5	2588.6	3218.5	3462.6	3887.3	4712.1	5509.5	6280.9	6319.9	5038.6
60°	1550.0	1581.8	1955.9	2473.1	2825.6	3274.8	4657.3	6176.9	7299.3	7254.6	5580.3
62.5°	1147.0	1164.3	1434.4	1771.0	2239.1	2668.1	4312.0	6633.4	8112.6	8021.6	5882.2
65°	887.0	892.7	1032.9	1212.0	1628.0	2074.4	3797.7	6702.7	8561.9	8465.1	5876.5
66°	790.2	794.5	897.1	1035.7	1385.3	1815.8	3572.4	6591.5	8632.7	8530.1	5804.2
67.5°	663.1	660.2	720.8	811.8	1040.1	1401.2	3172.2	6266.5	8548.9	8496.9	5573.1
70°	491.1	492.6	522.9	544.6	608.2	775.7	2291.1	5435.9	7878.6	7875.7	4938.9
72.5°	364.0	368.4	391.5	395.8	379.9	420.4	1320.3	4323.6	6302.6	6304.0	3692.3
75°	273.0	280.2	287.5	290.4	275.9	265.8	596.6	2909.3	4145.9	4115.5	2090.3
77.5°	208.0	210.9	216.7	212.3	209.5	183.5	248.5	1418.6	2046.9	1864.9	677.5
80°	151.7	151.7	157.5	151.7	150.2	131.5	135.8	455.0	600.9	499.8	145.9
82.5°	95.3	93.9	98.2	96.8	93.9	83.8	79.5	127.1	138.7	124.2	70.8
85°	53.4	52.0	50.6	49.1	44.8	37.6	43.3	47.7	63.6	65.0	50.6
87.5°	18.8	18.8	17.3	15.9	13.0	13.0	15.9	15.9	23.1	23.1	26.0
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°	878.3	878.3	878.3	878.3	878.3	878.3	878.3	878.3	878.3	878.3	878.3
2.5°	884.1	868.2	845.1	814.7	793.1	771.4	748.3	735.3	716.5	712.2	717.9
5°	900.0	871.1	813.3	749.7	694.8	645.7	599.5	572.0	544.6	534.5	538.8
7.5°	933.2	884.1	785.8	683.3	592.3	518.6	463.7	431.9	407.4	397.3	400.1
10°	982.3	907.2	759.8	608.2	491.1	413.1	366.9	346.7	332.2	326.5	327.9
12.5°	1041.5	940.4	726.6	533.0	404.5	336.6	314.9	310.6	307.7	304.8	306.2
15°	1108.0	969.3	687.6	459.4	336.6	299.0	291.8	290.4	288.9	288.9	288.9
17.5°	1177.3	995.3	644.3	390.0	293.2	275.9	271.6	271.6	271.6	273.0	273.0
20°	1242.3	1015.5	593.7	327.9	268.7	254.2	251.4	251.4	252.8	254.2	254.2
22.5°	1305.9	1024.2	534.5	284.6	248.5	235.5	231.1	231.1	231.1	232.6	232.6
25°	1360.8	1024.2	475.3	257.1	231.1	218.1	212.3	210.9	212.3	212.3	212.3
27.5°	1407.0	1019.9	417.5	238.4	213.8	200.8	195.0	193.6	196.5	197.9	197.9
30°	1456.1	1014.1	371.3	221.0	199.3	186.3	180.6	180.6	184.9	190.7	190.7
32.5°	1503.8	1018.4	335.1	206.6	184.9	174.8	169.0	170.5	179.1	187.8	187.8
35°	1554.3	1027.1	313.5	196.5	174.8	164.7	160.3	164.7	173.3	182.0	182.0
37.5°	1604.9	1037.2	300.5	187.8	166.1	156.0	153.1	158.9	169.0	177.7	179.1
40°	1658.4	1045.9	286.0	179.1	160.3	148.8	147.3	153.1	166.1	174.8	176.2
42.5°	1724.8	1063.2	268.7	171.9	154.6	140.1	141.6	145.9	158.9	171.9	173.3
45°	1854.8	1118.1	251.4	164.7	147.3	135.8	132.9	135.8	150.2	164.7	167.6
47.5°	2098.9	1242.3	232.6	157.5	140.1	132.9	121.3	124.2	137.2	153.1	154.6
50°	2567.0	1506.7	222.5	150.2	134.3	122.8	109.8	109.8	119.9	134.3	134.3
52.5°	3296.5	1980.5	228.2	144.5	127.1	112.7	99.7	98.2	104.0	114.1	114.1
55°	4083.8	2500.5	249.9	138.7	118.5	106.9	92.5	85.2	89.6	95.3	95.3
57.5°	4707.8	2762.0	309.1	135.8	108.3	102.6	83.8	73.7	78.0	83.8	83.8
60°	4982.3	2608.9	375.6	138.7	101.1	95.3	75.1	65.0	72.2	78.0	79.5
62.5°	4759.8	2148.1	403.0	131.5	91.0	85.2	73.7	60.7	69.3	73.7	75.1
65°	4278.8	1632.3	314.9	114.1	83.8	73.7	66.4	57.8	65.0	69.3	69.3
66°	4050.5	1422.9	268.7	105.5	80.9	69.3	63.6	57.8	63.6	66.4	67.9
67.5°	3696.6	1122.4	199.3	92.5	75.1	63.6	59.2	54.9	60.7	63.6	63.6
70°	2890.6	668.8	119.9	72.2	65.0	56.3	53.4	50.6	54.9	56.3	56.3
72.5°	1810.0	317.8	76.6	53.4	54.9	53.4	44.8	47.7	49.1	50.6	50.6
75°	876.8	125.7	52.0	39.0	44.8	50.6	36.1	41.9	43.3	46.2	44.8
77.5°	244.1	60.7	33.2	28.9	39.0	39.0	27.4	33.2	39.0	49.1	44.8
80°	70.8	39.0	21.7	21.7	27.4	27.4	18.8	23.1	26.0	28.9	30.3
82.5°	49.1	26.0	14.4	15.9	15.9	17.3	11.6	11.6	14.4	14.4	15.9
85°	39.0	11.6	8.7	10.1	7.2	8.7	5.8	5.8	7.2	5.8	5.8
87.5°	15.9	5.8	5.8	5.8	4.3	4.3	2.9	1.4	1.4	1.4	1.4
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)