

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: P1210308

Luminaire Tested: **ARCH2-80-740-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210308
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: ARCH2-80-740-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 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: 8448 lumens
Efficiency: N/A
Efficacy: 100.2 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

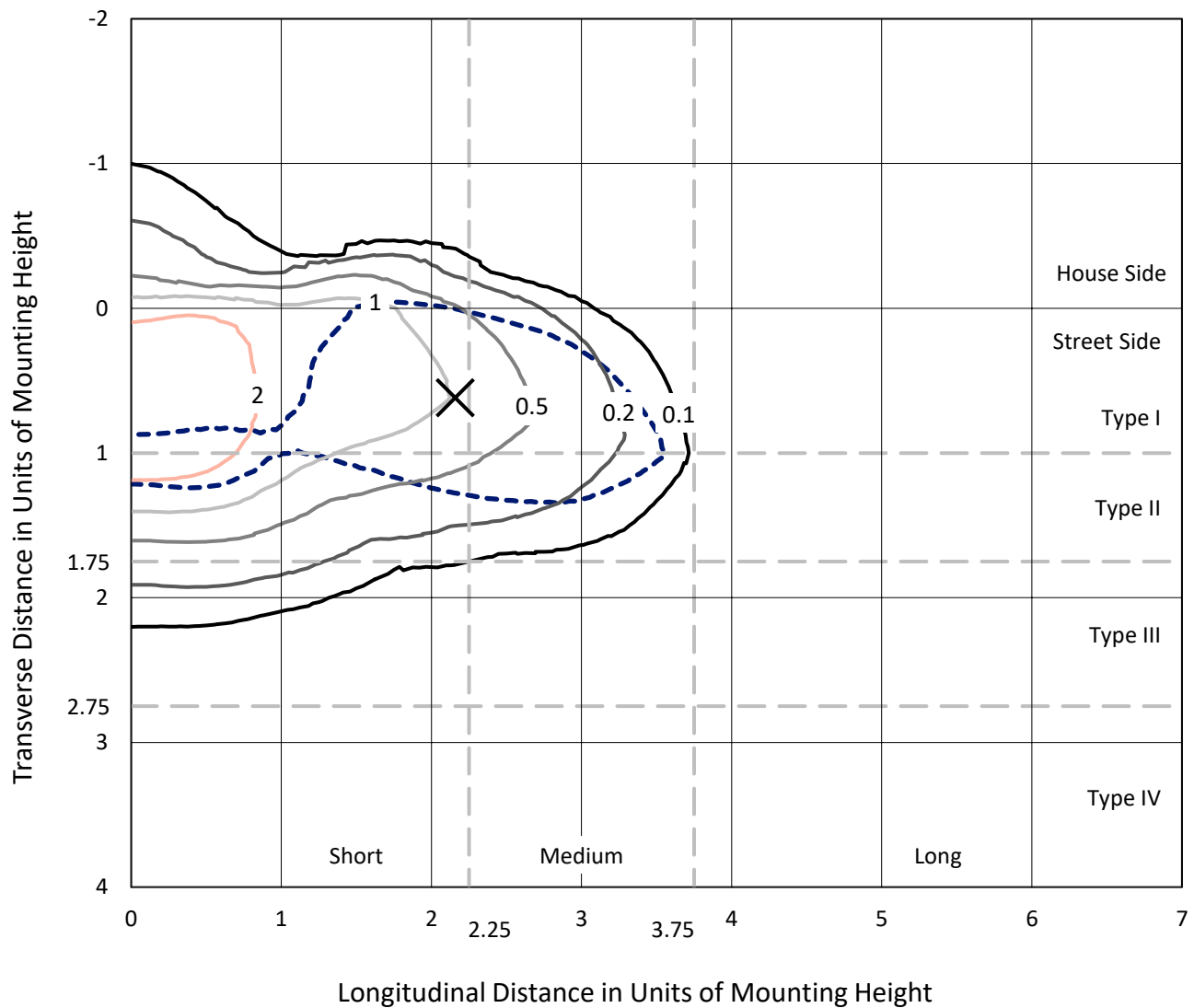


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Iso-Footcandle Lines of Horizontal Illumination

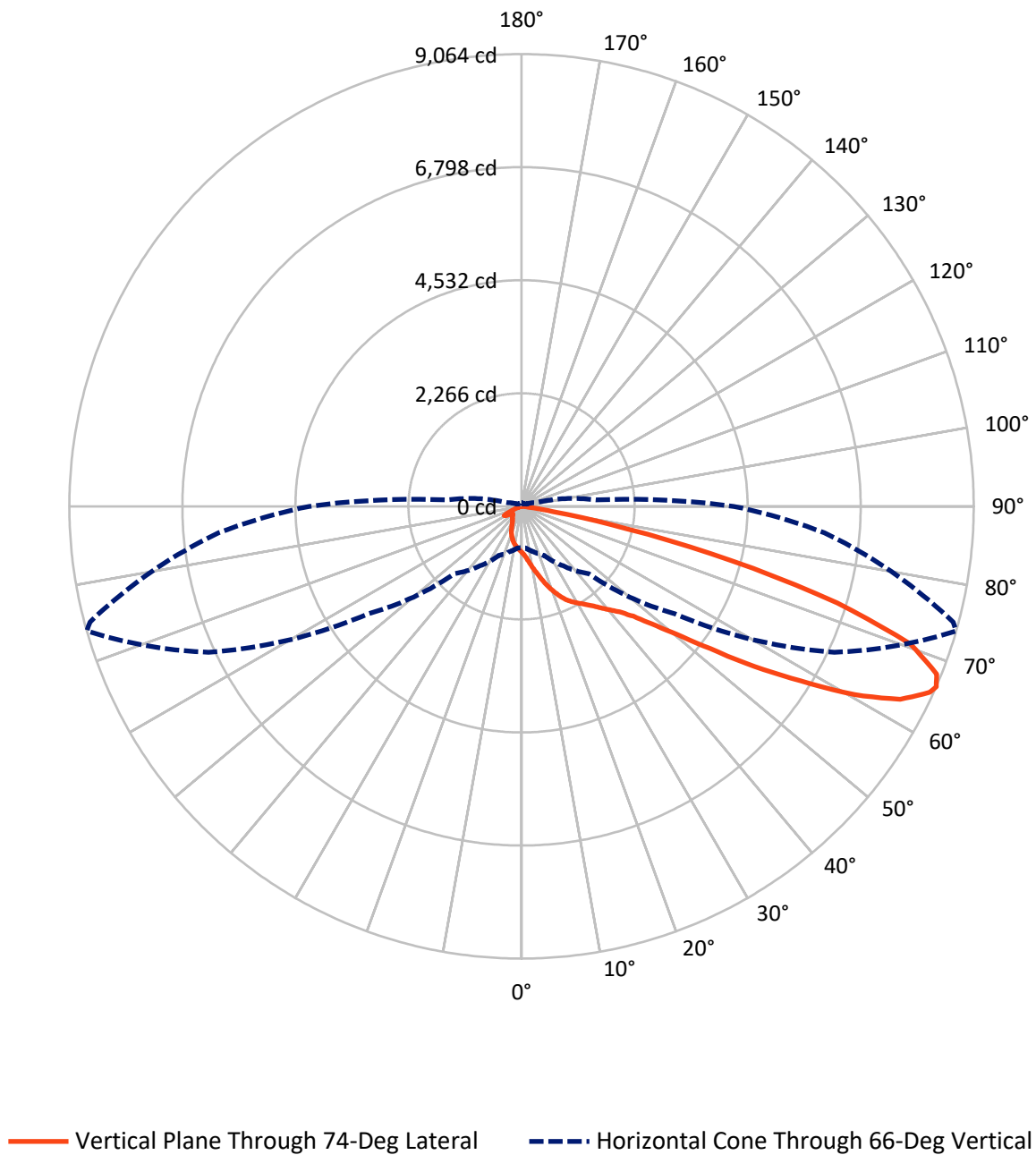
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 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	828.2	0.0	828.2
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	7619.8	0.0	7619.8
	% Fixture	90.2	0.0	90.2
Total	Lumens	8448.0	0.0	8448.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.0	1.1
10°-20°	288.6	3.4
20°-30°	550.7	6.5
30°-40°	965.2	11.4
40°-50°	1655.1	19.6
50°-60°	2152.6	25.5
60°-70°	1948.6	23.1
70°-80°	751.9	8.9
80°-90°	45.3	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°	8448.0	100.0
0°-180°	8448.0	100.0

Coefficient of Utilization



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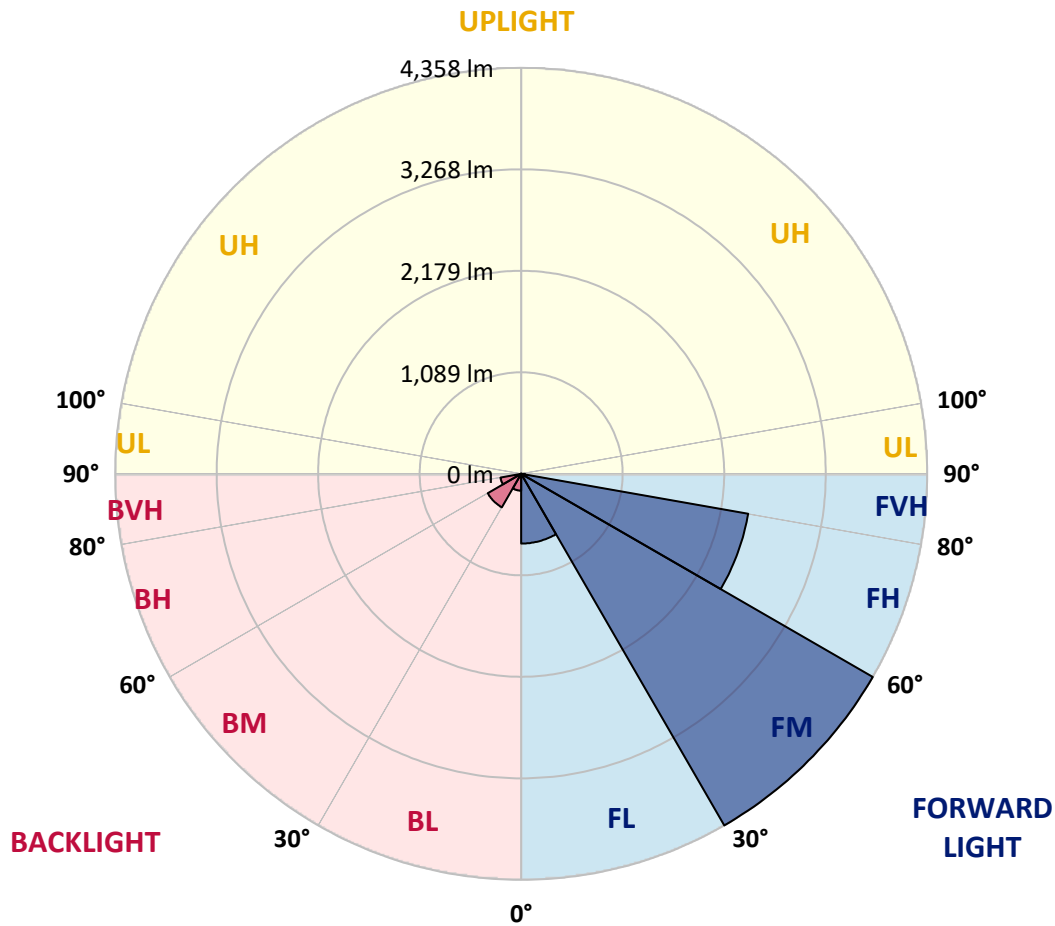
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	748.6	8.9			
FM	(30°-60°)	4357.9	51.6			
FH	(60°-80°)	2474.1	29.3			G2/5000
FVH	(80°-90°)	39.2	0.5			G1/100
BL	(0°-30°)	180.6	2.1	B1/500		
BM	(30°-60°)	415.1	4.9	B1/1000		
BH	(60°-80°)	226.4	2.7	B1/500		G1/500
BVH	(80°-90°)	6.1	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°	922.2	922.2	922.2	922.2	922.2	922.2	922.2	922.2	922.2	922.2	922.2
2.5°	1107.2	1098.1	1081.4	1079.9	1066.3	1049.6	1020.8	990.4	969.2	966.2	940.4
5°	1325.6	1321.1	1304.4	1293.8	1268.0	1228.6	1161.8	1095.1	1039.0	1032.9	975.3
7.5°	1383.3	1386.3	1389.3	1399.9	1390.8	1372.6	1322.6	1228.6	1140.6	1126.9	1026.8
10°	1392.4	1389.3	1389.3	1403.0	1428.8	1454.5	1448.5	1368.1	1254.3	1237.7	1098.1
12.5°	1490.9	1495.5	1484.9	1478.8	1474.3	1487.9	1533.4	1498.5	1374.2	1360.5	1184.6
15°	1618.4	1616.8	1601.7	1601.7	1588.0	1565.3	1594.1	1619.9	1518.2	1501.6	1283.2
17.5°	1710.9	1716.9	1715.4	1724.5	1720.0	1689.6	1674.5	1727.6	1666.9	1645.7	1395.4
20°	1785.2	1801.9	1807.9	1836.8	1850.4	1829.2	1789.7	1823.1	1809.5	1789.7	1509.1
22.5°	1864.1	1877.7	1888.3	1938.4	1976.3	1971.7	1921.7	1914.1	1947.5	1929.3	1621.4
25°	1942.9	1949.0	1980.9	2041.5	2102.2	2117.4	2065.8	2006.6	2071.9	2055.2	1721.5
27.5°	2029.4	2032.4	2070.3	2144.7	2229.6	2261.4	2220.5	2111.3	2167.4	2167.4	1812.5
30°	2187.1	2217.5	2232.6	2299.4	2373.7	2417.7	2369.1	2222.0	2252.3	2266.0	1908.0
32.5°	2526.9	2531.4	2526.9	2555.7	2570.9	2596.6	2540.5	2346.4	2338.8	2354.0	2002.1
35°	3045.6	3027.4	2978.9	2936.4	2848.4	2799.9	2727.1	2505.6	2445.0	2466.2	2094.6
37.5°	3675.0	3649.3	3538.5	3408.1	3220.0	3025.9	2934.9	2699.8	2580.0	2607.3	2194.7
40°	4275.7	4259.0	4127.0	3966.3	3644.7	3312.5	3119.9	2863.6	2730.1	2740.7	2296.3
42.5°	4770.1	4767.1	4656.4	4488.0	4075.5	3622.0	3338.3	3024.4	2887.9	2904.5	2402.5
45°	5144.8	5115.9	5034.0	4912.7	4492.6	3943.5	3602.2	3268.6	3141.1	3160.9	2561.8
47.5°	5144.8	5149.3	5202.4	5190.3	4783.8	4245.3	3890.4	3576.5	3515.8	3534.0	2824.2
50°	4726.1	4768.6	5005.2	5203.9	4935.4	4480.4	4201.3	3961.7	4023.9	4051.2	3282.2
52.5°	3898.0	3969.3	4380.3	4833.8	4823.2	4598.7	4522.9	4451.6	4730.7	4779.2	3958.7
55°	2962.2	3009.2	3544.6	4140.7	4334.8	4501.7	4803.5	5073.5	5666.5	5655.9	4645.7
57.5°	2212.9	2256.9	2718.0	3379.3	3635.6	4081.5	4947.6	5784.8	6594.7	6635.7	5290.4
60°	1627.5	1660.8	2053.7	2596.6	2966.7	3438.4	4889.9	6485.5	7664.0	7617.0	5859.1
62.5°	1204.3	1222.5	1506.1	1859.5	2350.9	2801.4	4527.4	6964.8	8518.0	8422.4	6176.1
65°	931.3	937.3	1084.5	1272.5	1709.4	2178.0	3987.5	7037.6	8989.7	8888.0	6170.1
66°	829.7	834.2	941.9	1087.5	1454.5	1906.5	3750.9	6920.8	9064.0	8956.3	6094.2
67.5°	696.2	693.1	756.8	852.4	1092.0	1471.2	3330.7	6579.6	8976.0	8921.4	5851.5
70°	515.7	517.2	549.1	571.8	638.5	814.5	2405.5	5707.5	8272.2	8269.2	5185.7
72.5°	382.2	386.8	411.0	415.6	398.9	441.4	1386.3	4539.6	6617.5	6619.0	3876.8
75°	286.7	294.2	301.8	304.9	289.7	279.1	626.4	3054.7	4353.0	4321.2	2194.7
77.5°	218.4	221.4	227.5	223.0	219.9	192.6	260.9	1489.4	2149.2	1958.1	711.3
80°	159.3	159.3	165.3	159.3	157.7	138.0	142.6	477.8	631.0	524.8	153.2
82.5°	100.1	98.6	103.1	101.6	98.6	88.0	83.4	133.5	145.6	130.4	74.3
85°	56.1	54.6	53.1	51.6	47.0	39.4	45.5	50.1	66.7	68.3	53.1
87.5°	19.7	19.7	18.2	16.7	13.7	13.7	16.7	16.7	24.3	24.3	27.3
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°	922.2	922.2	922.2	922.2	922.2	922.2	922.2	922.2	922.2	922.2	922.2
2.5°	928.2	911.6	887.3	855.4	832.7	809.9	785.7	772.0	752.3	747.7	753.8
5°	944.9	914.6	853.9	787.2	729.5	678.0	629.4	600.6	571.8	561.2	565.7
7.5°	979.8	928.2	825.1	717.4	621.9	544.5	486.9	453.5	427.7	417.1	420.1
10°	1031.4	952.5	797.8	638.5	515.7	433.8	385.2	364.0	348.8	342.8	344.3
12.5°	1093.6	987.4	762.9	559.7	424.7	353.4	330.6	326.1	323.1	320.0	321.5
15°	1163.3	1017.7	722.0	482.3	353.4	314.0	306.4	304.9	303.3	303.3	303.3
17.5°	1236.1	1045.0	676.5	409.5	307.9	289.7	285.1	285.1	285.1	286.7	286.7
20°	1304.4	1066.3	623.4	344.3	282.1	266.9	263.9	263.9	265.4	266.9	266.9
22.5°	1371.1	1075.4	561.2	298.8	260.9	247.2	242.7	242.7	242.7	244.2	244.2
25°	1428.8	1075.4	499.0	270.0	242.7	229.0	223.0	221.4	223.0	223.0	223.0
27.5°	1477.3	1070.8	438.3	250.3	224.5	210.8	204.8	203.2	206.3	207.8	207.8
30°	1528.9	1064.7	389.8	232.1	209.3	195.7	189.6	189.6	194.1	200.2	200.2
32.5°	1578.9	1069.3	351.9	216.9	194.1	183.5	177.5	179.0	188.1	197.2	197.2
35°	1632.0	1078.4	329.1	206.3	183.5	172.9	168.4	172.9	182.0	191.1	191.1
37.5°	1685.1	1089.0	315.5	197.2	174.4	163.8	160.8	166.8	177.5	186.6	188.1
40°	1741.2	1098.1	300.3	188.1	168.4	156.2	154.7	160.8	174.4	183.5	185.0
42.5°	1811.0	1116.3	282.1	180.5	162.3	147.1	148.6	153.2	166.8	180.5	182.0
45°	1947.5	1173.9	263.9	172.9	154.7	142.6	139.5	142.6	157.7	172.9	175.9
47.5°	2203.8	1304.4	244.2	165.3	147.1	139.5	127.4	130.4	144.1	160.8	162.3
50°	2695.2	1582.0	233.6	157.7	141.1	128.9	115.3	115.3	125.9	141.1	141.1
52.5°	3461.2	2079.4	239.6	151.7	133.5	118.3	104.7	103.1	109.2	119.8	119.8
55°	4287.8	2625.5	262.4	145.6	124.4	112.2	97.1	89.5	94.0	100.1	100.1
57.5°	4943.0	2900.0	324.6	142.6	113.8	107.7	88.0	77.4	81.9	88.0	88.0
60°	5231.2	2739.2	394.3	145.6	106.2	100.1	78.9	68.3	75.8	81.9	83.4
62.5°	4997.6	2255.4	423.2	138.0	95.6	89.5	77.4	63.7	72.8	77.4	78.9
65°	4492.6	1713.9	330.6	119.8	88.0	77.4	69.8	60.7	68.3	72.8	72.8
66°	4252.9	1494.0	282.1	110.7	84.9	72.8	66.7	60.7	66.7	69.8	71.3
67.5°	3881.3	1178.5	209.3	97.1	78.9	66.7	62.2	57.6	63.7	66.7	66.7
70°	3035.0	702.2	125.9	75.8	68.3	59.2	56.1	53.1	57.6	59.2	59.2
72.5°	1900.5	333.7	80.4	56.1	57.6	56.1	47.0	50.1	51.6	53.1	53.1
75°	920.7	132.0	54.6	41.0	47.0	53.1	37.9	44.0	45.5	48.5	47.0
77.5°	256.3	63.7	34.9	30.3	41.0	41.0	28.8	34.9	41.0	51.6	47.0
80°	74.3	41.0	22.8	22.8	28.8	28.8	19.7	24.3	27.3	30.3	31.9
82.5°	51.6	27.3	15.2	16.7	16.7	18.2	12.1	12.1	15.2	15.2	16.7
85°	41.0	12.1	9.1	10.6	7.6	9.1	6.1	6.1	7.6	6.1	6.1
87.5°	16.7	6.1	6.1	6.1	4.6	4.6	3.0	1.5	1.5	1.5	1.5
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)