

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: P799798

Luminaire Tested: **ARCH2-50-740-U-T3-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799798
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-26)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-50-740-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 410mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

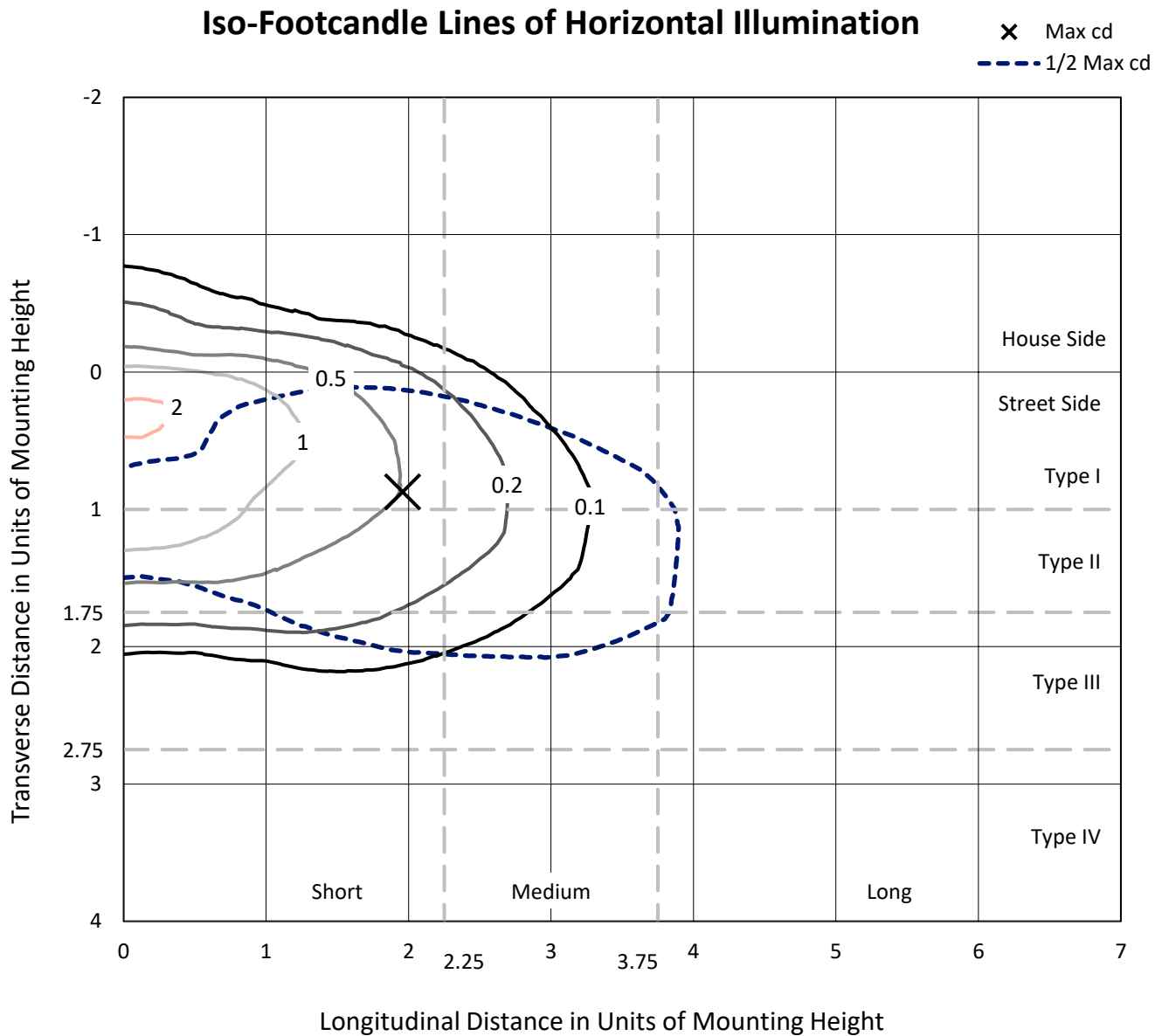
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5628 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 54
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

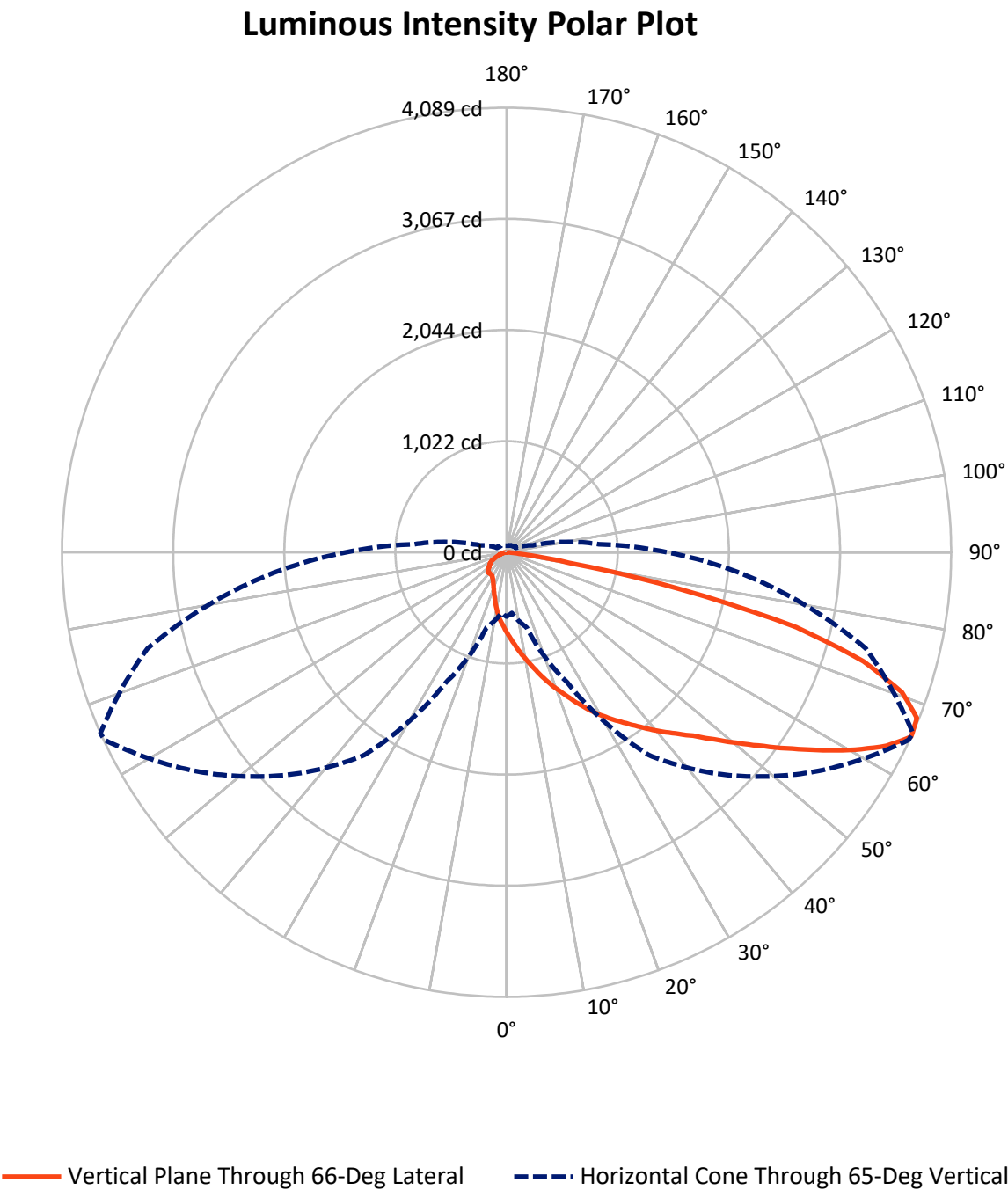


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Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
Type III - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	595.3	0.0	595.3
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	5032.7	0.0	5032.7
	% Fixture	89.4	0.0	89.4
Total	Lumens	5628.0	0.0	5628.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.5	1.3
10°-20°	239.6	4.3
20°-30°	433.5	7.7
30°-40°	677.9	12.0
40°-50°	1028.4	18.3
50°-60°	1306.6	23.2
60°-70°	1220.9	21.7
70°-80°	606.8	10.8
80°-90°	40.8	0.7
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°	5628.0	100.0
0°-180°	5628.0	100.0

Coefficient of Utilization



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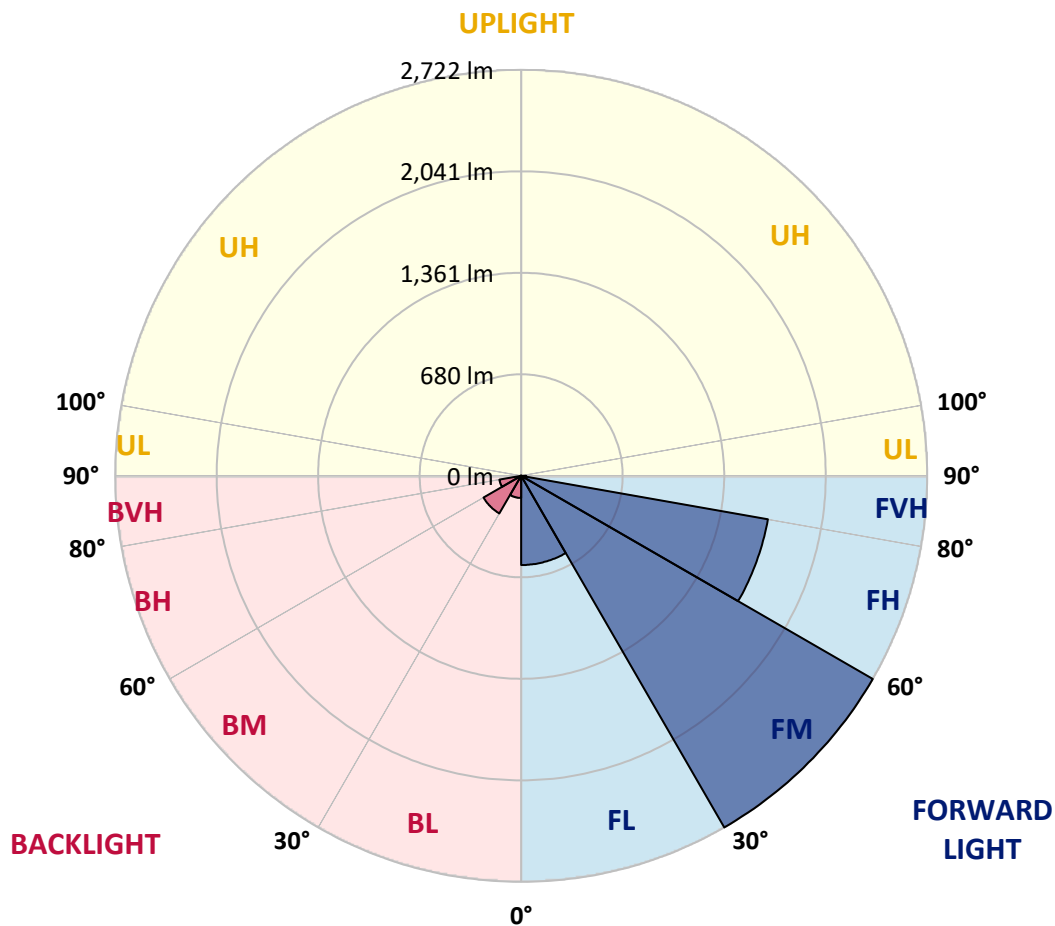
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	598.0	10.6			
FM	(30°-60°)	2721.8	48.4			
FH	(60°-80°)	1679.4	29.8			G1/1800
FVH	(80°-90°)	33.5	0.6			G1/100
BL	(0°-30°)	148.7	2.6	B1/500		
BM	(30°-60°)	291.2	5.2	B1/1000		
BH	(60°-80°)	148.2	2.6	B1/500		G1/500
BVH	(80°-90°)	7.2	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-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	744.8	744.8	744.8	744.8	744.8	744.8	744.8	744.8	744.8	744.8	744.8
2.5°	870.0	877.0	880.6	881.8	854.6	842.8	831.0	803.9	798.0	782.6	762.5
5°	1023.4	1032.9	1030.5	1025.8	992.7	954.9	924.3	873.5	865.2	828.6	783.8
7.5°	1174.5	1182.8	1180.4	1162.7	1126.1	1073.0	1022.2	947.9	936.1	877.0	805.0
10°	1300.8	1307.9	1306.7	1289.0	1245.3	1180.4	1119.0	1019.9	1005.7	921.9	822.7
12.5°	1404.7	1414.1	1412.9	1401.1	1362.2	1291.4	1221.7	1102.5	1084.8	976.2	847.5
15°	1486.1	1497.9	1497.9	1493.2	1466.1	1407.0	1328.0	1193.4	1172.1	1038.8	878.2
17.5°	1535.7	1545.1	1553.4	1561.7	1542.8	1497.9	1425.9	1284.3	1261.9	1100.1	910.1
20°	1561.7	1571.1	1577.0	1594.7	1598.3	1575.8	1519.2	1374.0	1350.4	1169.8	946.7
22.5°	1604.2	1612.4	1613.6	1629.0	1636.0	1641.9	1606.5	1462.5	1443.6	1246.5	988.0
25°	1675.0	1684.4	1680.9	1688.0	1689.2	1696.2	1692.7	1564.0	1545.1	1333.9	1037.6
27.5°	1765.9	1777.7	1775.3	1768.2	1757.6	1751.7	1767.1	1666.7	1649.0	1421.2	1088.3
30°	1863.9	1878.0	1874.5	1860.3	1832.0	1807.2	1828.4	1763.5	1747.0	1510.9	1145.0
32.5°	1963.0	1979.5	1978.4	1954.7	1906.4	1863.9	1895.7	1854.4	1842.6	1607.7	1206.4
35°	2027.9	2049.2	2046.8	2032.7	1970.1	1933.5	1972.5	1947.7	1939.4	1725.8	1294.9
37.5°	2133.0	2155.4	2135.4	2099.9	2027.9	2009.0	2056.3	2052.7	2046.8	1850.9	1388.2
40°	2388.0	2421.0	2367.9	2222.7	2104.7	2088.1	2155.4	2169.6	2163.7	1974.8	1472.0
42.5°	2654.7	2704.3	2621.7	2421.0	2243.9	2183.7	2264.0	2284.1	2277.0	2081.1	1547.5
45°	2816.4	2837.7	2755.1	2599.2	2490.7	2299.4	2379.7	2412.7	2406.8	2208.5	1644.3
47.5°	2948.6	2940.4	2846.0	2740.9	2761.0	2462.3	2510.7	2575.6	2570.9	2349.0	1750.5
50°	2977.0	2958.1	2920.3	2854.2	2907.3	2627.6	2648.8	2761.0	2756.2	2504.8	1858.0
52.5°	2777.5	2752.7	2855.4	2910.9	2893.2	2748.0	2801.1	2964.0	2961.6	2673.6	1960.7
55°	2279.4	2259.3	2535.5	2822.3	2877.8	2833.0	2969.9	3175.3	3188.3	2853.0	2053.9
57.5°	1793.0	1771.8	2043.3	2600.4	2821.2	2910.9	3167.0	3417.3	3433.8	3047.8	2142.4
60°	1429.5	1397.6	1605.3	2251.0	2714.9	2971.1	3357.1	3682.9	3685.2	3226.0	2196.7
62.5°	971.5	936.1	1166.2	1808.4	2536.7	2980.5	3503.4	3911.9	3921.3	3359.4	2206.2
65°	590.2	560.7	716.5	1320.9	2273.5	2900.3	3505.8	4080.7	4088.9	3420.8	2149.5
67.5°	342.3	330.5	409.6	822.7	1836.7	2684.2	3358.2	4054.7	4070.0	3394.8	2020.9
70°	199.5	198.3	227.8	407.2	1296.1	2255.8	3028.9	3836.3	3858.7	3259.1	1823.7
72.5°	146.4	148.7	160.5	218.4	750.7	1624.2	2565.0	3397.2	3431.4	2993.5	1542.8
75°	115.7	116.9	127.5	148.7	394.3	918.4	1921.7	2726.7	2753.9	2520.2	1205.2
77.5°	86.2	88.5	96.8	105.1	183.0	421.4	1081.3	1679.7	1634.9	1383.4	581.9
80°	62.6	68.5	72.0	75.5	96.8	162.9	324.6	585.5	580.8	604.4	275.0
82.5°	40.1	44.9	48.4	50.8	57.8	77.9	96.8	131.0	141.6	234.9	109.8
85°	17.7	20.1	22.4	27.1	24.8	27.1	40.1	26.0	22.4	35.4	20.1
87.5°	0.0	0.0	3.5	5.9	4.7	2.4	7.1	4.7	3.5	3.5	3.5
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°	744.8	744.8	744.8	744.8	744.8	744.8	744.8	744.8	744.8	744.8	744.8
2.5°	751.9	738.9	711.8	685.8	670.5	650.4	632.7	616.2	615.0	610.3	602.0
5°	761.4	736.6	685.8	637.4	600.8	561.9	528.8	502.9	493.4	486.3	476.9
7.5°	770.8	731.9	656.3	585.5	527.6	473.3	434.4	399.0	388.4	378.9	373.0
10°	774.3	723.6	622.1	527.6	452.1	394.3	352.9	327.0	317.5	312.8	309.3
12.5°	785.0	718.9	590.2	473.3	386.0	332.9	303.4	288.0	284.5	280.9	277.4
15°	799.1	718.9	558.3	420.2	334.1	291.6	273.9	263.2	260.9	259.7	257.3
17.5°	814.5	718.9	527.6	375.4	296.3	264.4	251.4	245.5	244.3	243.2	242.0
20°	835.7	720.0	494.6	336.4	269.1	244.3	233.7	226.6	225.5	224.3	224.3
22.5°	857.0	722.4	462.7	306.9	251.4	229.0	216.0	208.9	206.6	206.6	206.6
25°	884.1	729.5	433.2	282.1	236.1	214.8	198.3	192.4	191.2	191.2	190.0
27.5°	916.0	737.8	407.2	263.2	220.7	198.3	181.8	175.9	173.5	173.5	172.3
30°	950.2	746.0	386.0	249.1	205.4	181.8	166.4	159.4	157.0	158.2	157.0
32.5°	988.0	757.8	369.5	239.6	191.2	167.6	153.5	145.2	144.0	144.0	142.8
35°	1051.7	790.9	367.1	234.9	179.4	157.0	142.8	134.6	133.4	133.4	132.2
37.5°	1120.2	828.6	377.7	232.5	170.0	147.6	134.6	126.3	125.1	125.1	125.1
40°	1178.0	857.0	389.5	232.5	164.1	139.3	127.5	120.4	120.4	120.4	120.4
42.5°	1217.0	859.3	387.2	232.5	159.4	133.4	122.8	115.7	115.7	116.9	115.7
45°	1274.8	871.1	377.7	229.0	155.8	128.7	118.0	112.1	111.0	112.1	112.1
47.5°	1343.3	892.4	368.3	214.8	154.6	123.9	114.5	107.4	106.2	107.4	106.2
50°	1408.2	911.3	363.6	195.9	152.3	119.2	109.8	102.7	101.5	102.7	101.5
52.5°	1462.5	919.5	355.3	183.0	146.4	114.5	105.1	98.0	95.6	96.8	96.8
55°	1506.2	917.2	343.5	172.3	135.7	109.8	99.2	93.3	89.7	89.7	88.5
57.5°	1546.3	918.4	332.9	161.7	123.9	102.7	94.4	87.3	82.6	81.4	80.3
60°	1561.7	912.5	314.0	147.6	112.1	96.8	88.5	80.3	75.5	74.4	73.2
62.5°	1540.4	891.2	289.2	122.8	101.5	89.7	82.6	74.4	69.6	68.5	67.3
65°	1480.2	851.1	251.4	96.8	92.1	81.4	75.5	69.6	63.7	61.4	60.2
67.5°	1377.5	793.2	204.2	77.9	81.4	74.4	70.8	63.7	56.7	54.3	53.1
70°	1231.2	716.5	153.5	66.1	72.0	66.1	63.7	56.7	50.8	48.4	47.2
72.5°	1025.8	592.6	107.4	56.7	62.6	57.8	55.5	50.8	44.9	41.3	41.3
75°	775.5	424.9	70.8	48.4	51.9	49.6	46.0	42.5	39.0	36.6	35.4
77.5°	334.1	165.3	43.7	36.6	42.5	41.3	36.6	34.2	33.1	30.7	30.7
80°	144.0	67.3	27.1	27.1	30.7	29.5	28.3	26.0	26.0	24.8	23.6
82.5°	53.1	27.1	16.5	20.1	22.4	20.1	20.1	20.1	20.1	18.9	18.9
85°	13.0	8.3	8.3	11.8	13.0	11.8	13.0	11.8	11.8	11.8	10.6
87.5°	3.5	3.5	4.7	4.7	4.7	4.7	4.7	3.5	0.0	0.0	0.0
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)