

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: P1210328

Luminaire Tested: **ARCH2-90-727-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210328
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: ARCH2-90-727-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 695mA 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: 8377 lumens
Efficiency: N/A
Efficacy: 89.4 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): 93.7
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

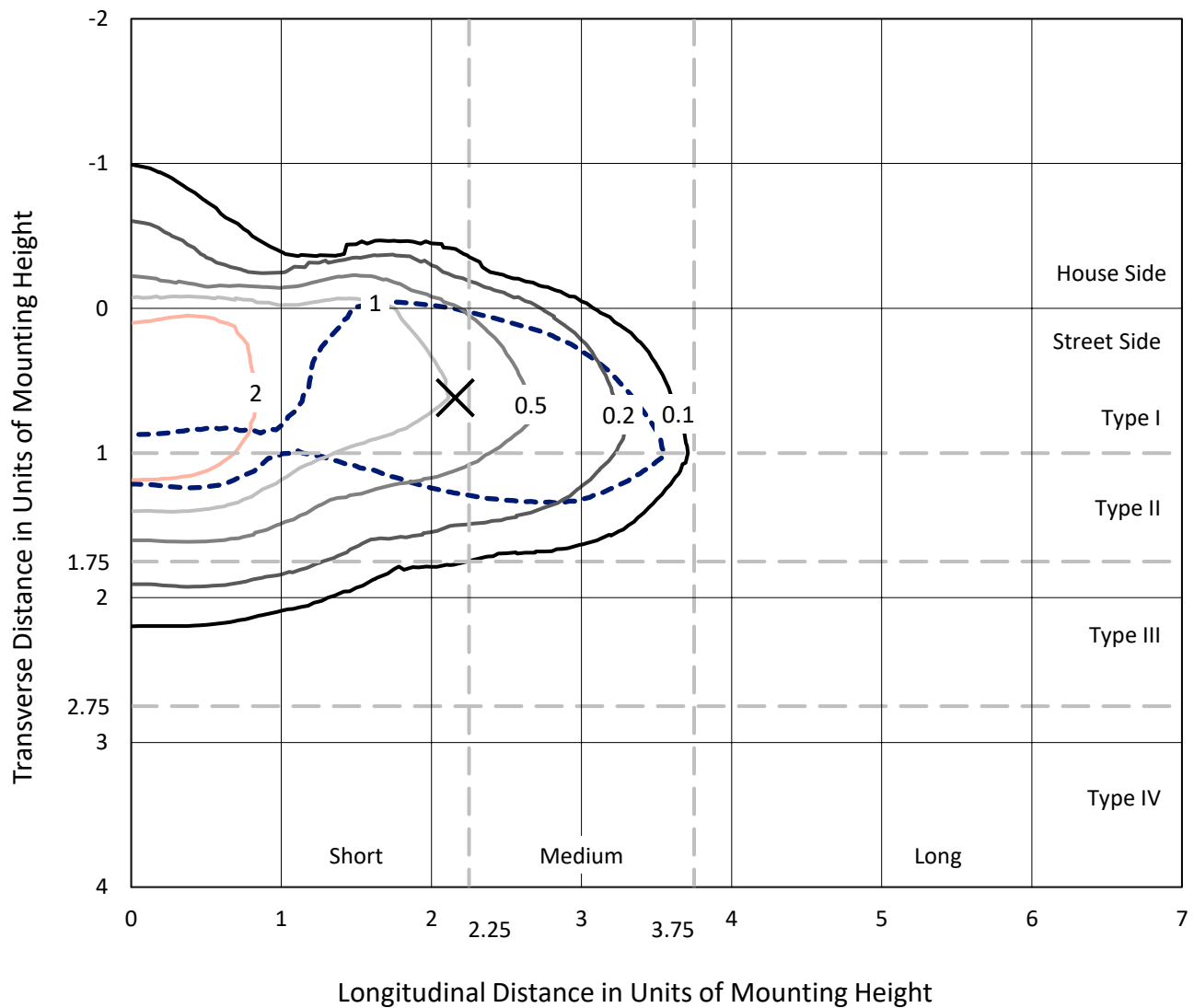


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Iso-Footcandle Lines of Horizontal Illumination

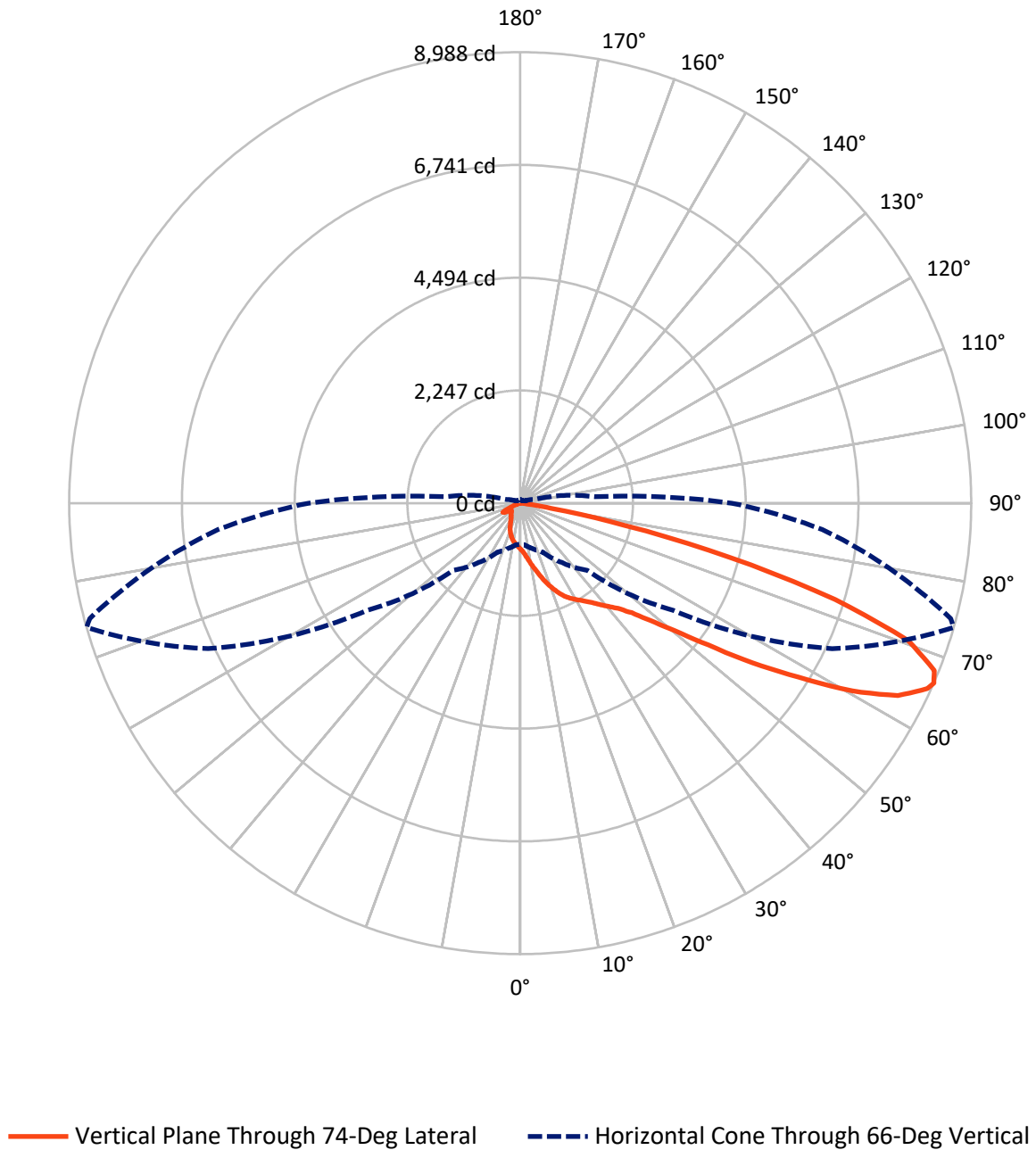
× Max cd
--- 1/2 Max cd



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	821.2	0.0	821.2
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	7555.8	0.0	7555.8
	% Fixture	90.2	0.0	90.2
Total	Lumens	8377.0	0.0	8377.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.3	1.1
10°-20°	286.1	3.4
20°-30°	546.1	6.5
30°-40°	957.1	11.4
40°-50°	1641.2	19.6
50°-60°	2134.5	25.5
60°-70°	1932.3	23.1
70°-80°	745.6	8.9
80°-90°	44.9	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°	8377.0	100.0
0°-180°	8377.0	100.0

Coefficient of Utilization



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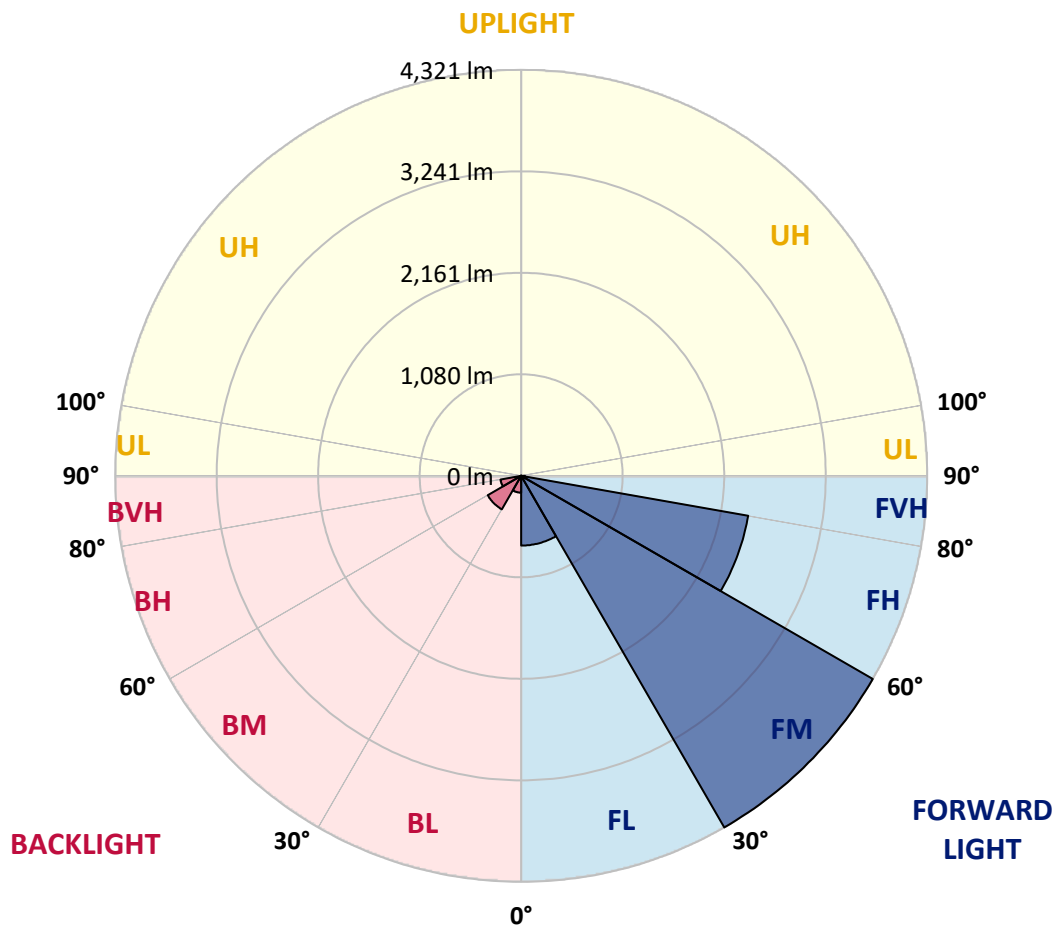
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	742.3	8.9			
FM	(30°-60°)	4321.3	51.6			
FH	(60°-80°)	2453.3	29.3			G2/5000
FVH	(80°-90°)	38.9	0.5			G1/100
BL	(0°-30°)	179.1	2.1	B1/500		
BM	(30°-60°)	411.6	4.9	B1/1000		
BH	(60°-80°)	224.5	2.7	B1/500		G1/500
BVH	(80°-90°)	6.0	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	914.4	914.4	914.4	914.4	914.4	914.4	914.4	914.4	914.4	914.4	914.4
2.5°	1097.9	1088.9	1072.3	1070.8	1057.3	1040.8	1012.2	982.1	961.0	958.0	932.5
5°	1314.5	1310.0	1293.4	1282.9	1257.3	1218.2	1152.1	1085.9	1030.2	1024.2	967.1
7.5°	1371.6	1374.6	1377.6	1388.2	1379.2	1361.1	1311.5	1218.2	1131.0	1117.5	1018.2
10°	1380.7	1377.6	1377.6	1391.2	1416.8	1442.3	1436.3	1356.6	1243.8	1227.3	1088.9
12.5°	1478.4	1482.9	1472.4	1466.4	1461.9	1475.4	1520.5	1485.9	1362.6	1349.1	1174.6
15°	1604.8	1603.2	1588.2	1588.2	1574.7	1552.1	1580.7	1606.3	1505.5	1488.9	1272.4
17.5°	1696.5	1702.5	1701.0	1710.0	1705.5	1675.4	1660.4	1713.0	1652.9	1631.8	1383.7
20°	1770.2	1786.7	1792.7	1821.3	1834.9	1813.8	1774.7	1807.8	1794.3	1774.7	1496.5
22.5°	1848.4	1861.9	1872.5	1922.1	1959.7	1955.2	1905.5	1898.0	1931.1	1913.1	1607.8
25°	1926.6	1932.6	1964.2	2024.4	2084.5	2099.6	2048.4	1989.8	2054.4	2037.9	1707.0
27.5°	2012.3	2015.3	2052.9	2126.6	2210.9	2242.4	2201.8	2093.5	2149.2	2149.2	1797.3
30°	2168.7	2198.8	2213.9	2280.0	2353.7	2397.3	2349.2	2203.3	2233.4	2247.0	1892.0
32.5°	2505.6	2510.1	2505.6	2534.2	2549.3	2574.8	2519.2	2326.7	2319.1	2334.2	1985.3
35°	3020.0	3002.0	2953.8	2911.7	2824.5	2776.4	2704.2	2484.6	2424.4	2445.5	2077.0
37.5°	3644.2	3618.6	3508.8	3379.5	3193.0	3000.4	2910.2	2677.1	2558.3	2585.3	2176.3
40°	4239.7	4223.2	4092.3	3932.9	3614.1	3284.7	3093.7	2839.5	2707.2	2717.7	2277.0
42.5°	4730.0	4727.0	4617.2	4450.3	4041.2	3591.5	3310.3	2998.9	2863.6	2880.1	2382.3
45°	5101.5	5072.9	4991.7	4871.4	4454.8	3910.4	3572.0	3241.1	3114.7	3134.3	2540.2
47.5°	5101.5	5106.0	5158.7	5146.6	4743.6	4209.6	3857.7	3546.4	3486.2	3504.3	2800.4
50°	4686.4	4728.5	4963.1	5160.2	4894.0	4442.8	4166.0	3928.4	3990.1	4017.1	3254.6
52.5°	3865.2	3935.9	4343.5	4793.2	4782.7	4560.1	4484.9	4414.2	4690.9	4739.1	3925.4
55°	2937.3	2983.9	3514.8	4105.9	4298.4	4463.8	4763.1	5030.8	5618.9	5608.4	4606.7
57.5°	2194.3	2237.9	2695.1	3350.9	3605.0	4047.2	4906.0	5736.2	6539.3	6579.9	5245.9
60°	1613.8	1646.9	2036.4	2574.8	2941.8	3409.5	4848.8	6431.0	7599.6	7553.0	5809.9
62.5°	1194.2	1212.2	1493.5	1843.9	2331.2	2777.9	4489.4	6906.3	8446.4	8351.6	6124.2
65°	923.4	929.5	1075.3	1261.8	1695.0	2159.7	3954.0	6978.5	8914.1	8813.3	6118.2
66°	822.7	827.2	934.0	1078.4	1442.3	1890.5	3719.4	6862.7	8987.8	8881.0	6043.0
67.5°	690.3	687.3	750.5	845.2	1082.9	1458.9	3302.7	6524.3	8900.6	8846.4	5802.4
70°	511.4	512.9	544.4	567.0	633.2	807.6	2385.3	5659.5	8202.7	8199.7	5142.1
72.5°	379.0	383.5	407.6	412.1	395.5	437.7	1374.6	4501.4	6561.9	6563.4	3844.2
75°	284.3	291.8	299.3	302.3	287.3	276.7	621.1	3029.0	4316.4	4284.8	2176.3
77.5°	216.6	219.6	225.6	221.1	218.1	191.0	258.7	1476.9	2131.1	1941.6	705.4
80°	157.9	157.9	163.9	157.9	156.4	136.9	141.4	473.8	625.7	520.4	151.9
82.5°	99.3	97.8	102.3	100.8	97.8	87.2	82.7	132.4	144.4	129.3	73.7
85°	55.6	54.1	52.6	51.1	46.6	39.1	45.1	49.6	66.2	67.7	52.6
87.5°	19.6	19.6	18.0	16.5	13.5	13.5	16.5	16.5	24.1	24.1	27.1
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°	914.4	914.4	914.4	914.4	914.4	914.4	914.4	914.4	914.4	914.4	914.4
2.5°	920.4	903.9	879.8	848.2	825.7	803.1	779.1	765.5	746.0	741.5	747.5
5°	937.0	906.9	846.7	780.6	723.4	672.3	624.2	595.6	567.0	556.5	561.0
7.5°	971.6	920.4	818.2	711.4	616.6	539.9	482.8	449.7	424.1	413.6	416.6
10°	1022.7	944.5	791.1	633.2	511.4	430.1	382.0	361.0	345.9	339.9	341.4
12.5°	1084.4	979.1	756.5	555.0	421.1	350.4	327.9	323.4	320.3	317.3	318.8
15°	1153.6	1009.2	715.9	478.3	350.4	311.3	303.8	302.3	300.8	300.8	300.8
17.5°	1225.7	1036.2	670.8	406.1	305.3	287.3	282.7	282.7	282.7	284.3	284.3
20°	1293.4	1057.3	618.1	341.4	279.7	264.7	261.7	261.7	263.2	264.7	264.7
22.5°	1359.6	1066.3	556.5	296.3	258.7	245.1	240.6	240.6	240.6	242.1	242.1
25°	1416.8	1066.3	494.8	267.7	240.6	227.1	221.1	219.6	221.1	221.1	221.1
27.5°	1464.9	1061.8	434.7	248.2	222.6	209.1	203.0	201.5	204.5	206.0	206.0
30°	1516.0	1055.8	386.5	230.1	207.5	194.0	188.0	188.0	192.5	198.5	198.5
32.5°	1565.6	1060.3	348.9	215.1	192.5	182.0	176.0	177.5	186.5	195.5	195.5
35°	1618.3	1069.3	326.4	204.5	182.0	171.5	166.9	171.5	180.5	189.5	189.5
37.5°	1670.9	1079.9	312.8	195.5	173.0	162.4	159.4	165.4	176.0	185.0	186.5
40°	1726.6	1088.9	297.8	186.5	166.9	154.9	153.4	159.4	173.0	182.0	183.5
42.5°	1795.8	1106.9	279.7	179.0	160.9	145.9	147.4	151.9	165.4	179.0	180.5
45°	1931.1	1164.1	261.7	171.5	153.4	141.4	138.4	141.4	156.4	171.5	174.5
47.5°	2185.3	1293.4	242.1	163.9	145.9	138.4	126.3	129.3	142.9	159.4	160.9
50°	2672.6	1568.7	231.6	156.4	139.9	127.8	114.3	114.3	124.8	139.9	139.9
52.5°	3432.1	2062.0	237.6	150.4	132.4	117.3	103.8	102.3	108.3	118.8	118.8
55°	4251.8	2603.4	260.2	144.4	123.3	111.3	96.3	88.7	93.2	99.3	99.3
57.5°	4901.5	2875.6	321.9	141.4	112.8	106.8	87.2	76.7	81.2	87.2	87.2
60°	5187.2	2716.2	391.0	144.4	105.3	99.3	78.2	67.7	75.2	81.2	82.7
62.5°	4955.6	2236.4	419.6	136.9	94.8	88.7	76.7	63.2	72.2	76.7	78.2
65°	4454.8	1699.5	327.9	118.8	87.2	76.7	69.2	60.2	67.7	72.2	72.2
66°	4217.2	1481.4	279.7	109.8	84.2	72.2	66.2	60.2	66.2	69.2	70.7
67.5°	3848.7	1168.6	207.5	96.3	78.2	66.2	61.7	57.2	63.2	66.2	66.2
70°	3009.5	696.3	124.8	75.2	67.7	58.7	55.6	52.6	57.2	58.7	58.7
72.5°	1884.5	330.9	79.7	55.6	57.2	55.6	46.6	49.6	51.1	52.6	52.6
75°	912.9	130.8	54.1	40.6	46.6	52.6	37.6	43.6	45.1	48.1	46.6
77.5°	254.2	63.2	34.6	30.1	40.6	40.6	28.6	34.6	40.6	51.1	46.6
80°	73.7	40.6	22.6	22.6	28.6	28.6	19.6	24.1	27.1	30.1	31.6
82.5°	51.1	27.1	15.0	16.5	16.5	18.0	12.0	12.0	15.0	15.0	16.5
85°	40.6	12.0	9.0	10.5	7.5	9.0	6.0	6.0	7.5	6.0	6.0
87.5°	16.5	6.0	6.0	6.0	4.5	4.5	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)