

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: P1210296

Luminaire Tested: **ARCH2-80-727-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210296
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: ARCH2-80-727-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 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: 7764 lumens
Efficiency: N/A
Efficacy: 92.1 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

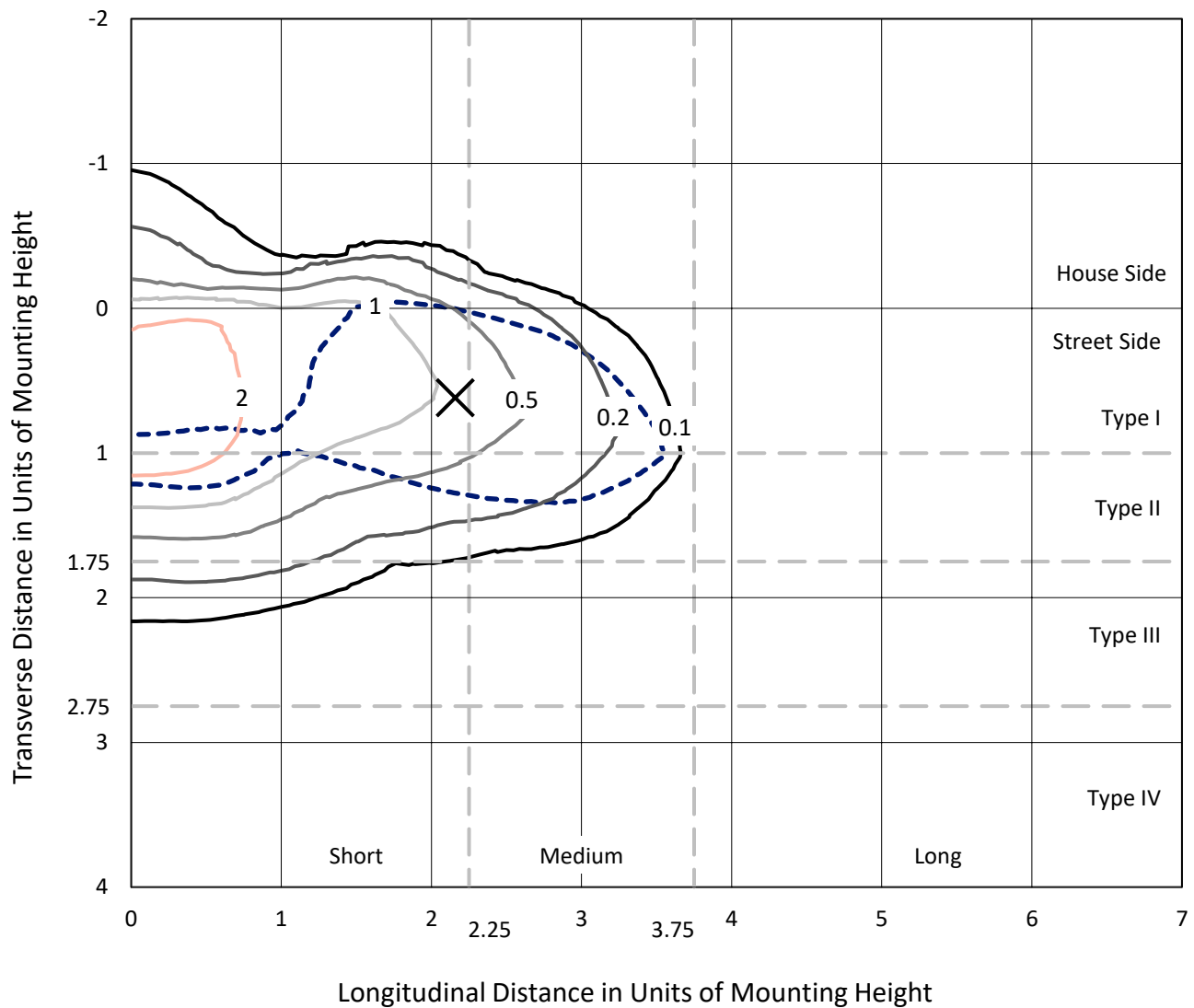


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Iso-Footcandle Lines of Horizontal Illumination

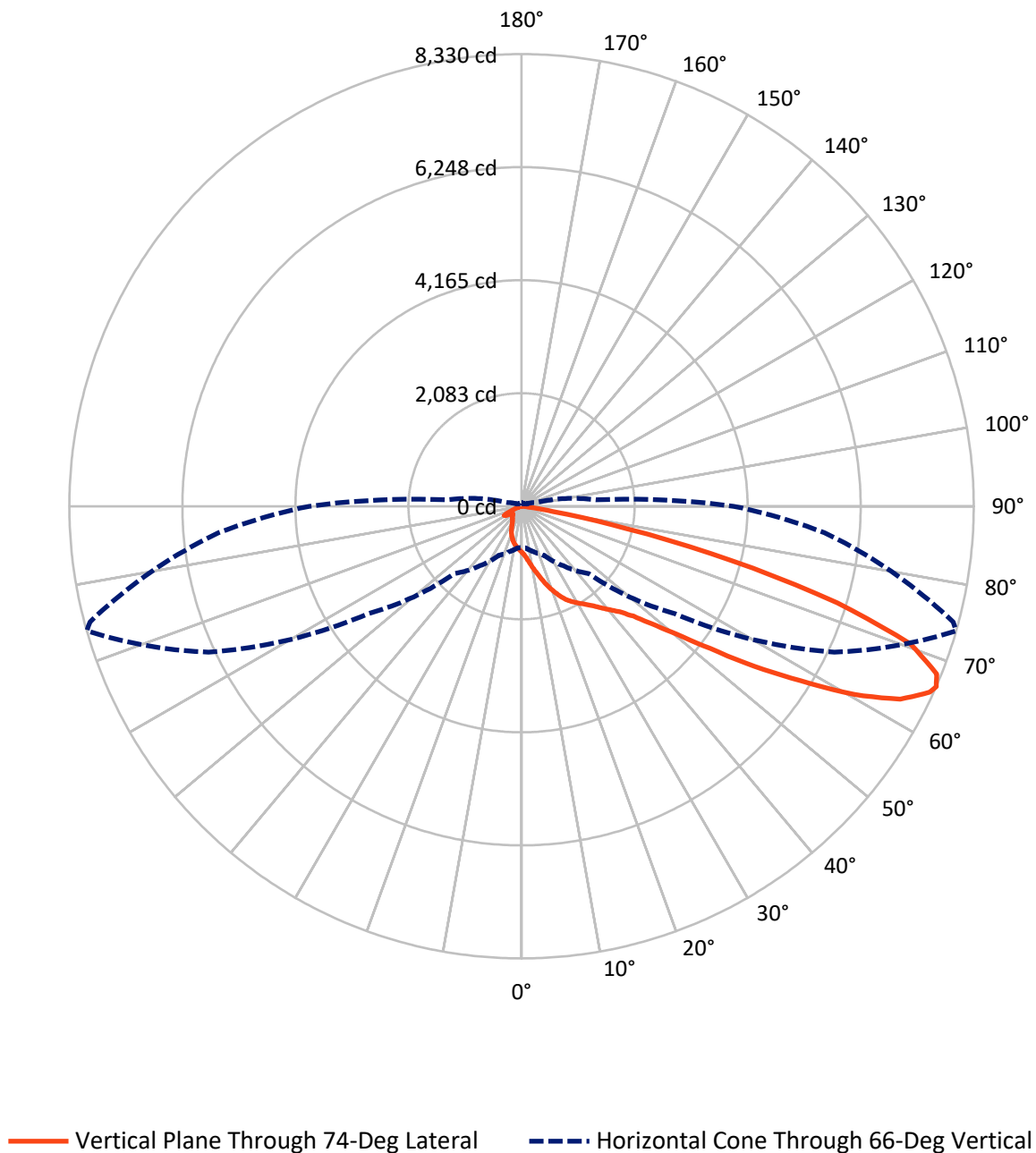
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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	761.1	0.0	761.1
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	7002.9	0.0	7002.9
	% Fixture	90.2	0.0	90.2
Total	Lumens	7764.0	0.0	7764.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.7	1.1
10°-20°	265.2	3.4
20°-30°	506.1	6.5
30°-40°	887.1	11.4
40°-50°	1521.1	19.6
50°-60°	1978.3	25.5
60°-70°	1790.9	23.1
70°-80°	691.0	8.9
80°-90°	41.6	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°	7764.0	100.0
0°-180°	7764.0	100.0

Coefficient of Utilization



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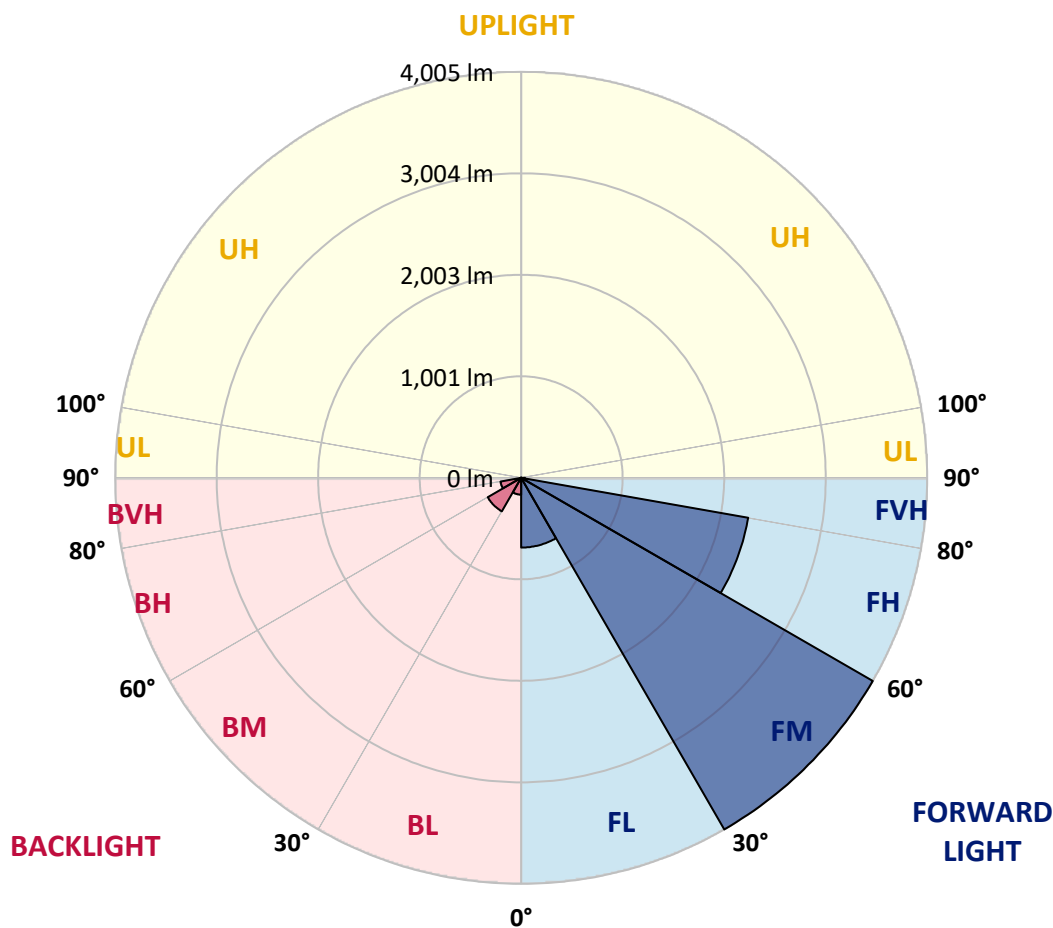
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	688.0	8.9			
FM	(30°-60°)	4005.1	51.6			
FH	(60°-80°)	2273.8	29.3			G2/5000
FVH	(80°-90°)	36.0	0.5			G1/100
BL	(0°-30°)	166.0	2.1	B1/500		
BM	(30°-60°)	381.4	4.9	B1/1000		
BH	(60°-80°)	208.1	2.7	B1/500		G1/500
BVH	(80°-90°)	5.6	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°	847.5	847.5	847.5	847.5	847.5	847.5	847.5	847.5	847.5	847.5	847.5
2.5°	1017.6	1009.2	993.9	992.5	979.9	964.6	938.1	910.2	890.7	887.9	864.2
5°	1218.3	1214.1	1198.8	1189.0	1165.3	1129.1	1067.7	1006.4	954.8	949.3	896.3
7.5°	1271.3	1274.0	1276.8	1286.6	1278.2	1261.5	1215.5	1129.1	1048.2	1035.7	943.7
10°	1279.6	1276.8	1276.8	1289.4	1313.1	1336.8	1331.2	1257.3	1152.8	1137.4	1009.2
12.5°	1370.2	1374.4	1364.7	1359.1	1354.9	1367.4	1409.3	1377.2	1262.9	1250.4	1088.7
15°	1487.3	1485.9	1472.0	1472.0	1459.4	1438.5	1465.0	1488.7	1395.3	1380.0	1179.3
17.5°	1572.3	1577.9	1576.5	1584.9	1580.7	1552.8	1538.9	1587.7	1531.9	1512.4	1282.4
20°	1640.7	1656.0	1661.6	1688.0	1700.6	1681.1	1644.8	1675.5	1663.0	1644.8	1387.0
22.5°	1713.1	1725.7	1735.4	1781.4	1816.3	1812.1	1766.1	1759.1	1789.8	1773.1	1490.1
25°	1785.6	1791.2	1820.5	1876.2	1932.0	1945.9	1898.5	1844.2	1904.1	1888.8	1582.1
27.5°	1865.1	1867.9	1902.7	1971.0	2049.1	2078.3	2040.7	1940.3	1991.9	1991.9	1665.7
30°	2010.0	2037.9	2051.9	2113.2	2181.5	2221.9	2177.3	2042.1	2070.0	2082.5	1753.6
32.5°	2322.3	2326.5	2322.3	2348.8	2362.7	2386.4	2334.8	2156.4	2149.4	2163.4	1840.0
35°	2799.0	2782.3	2737.7	2698.6	2617.8	2573.2	2506.3	2302.8	2247.0	2266.5	1925.0
37.5°	3377.5	3353.8	3252.0	3132.2	2959.3	2780.9	2697.2	2481.2	2371.1	2396.2	2017.0
40°	3929.5	3914.1	3792.9	3645.1	3349.6	3044.3	2867.3	2631.7	2509.1	2518.8	2110.4
42.5°	4383.9	4381.1	4279.4	4124.6	3745.5	3328.7	3068.0	2779.5	2654.0	2669.4	2208.0
45°	4728.2	4701.7	4626.4	4514.9	4128.8	3624.2	3310.6	3003.9	2886.8	2904.9	2354.3
47.5°	4728.2	4732.4	4781.2	4770.0	4396.4	3901.6	3575.4	3286.9	3231.1	3247.9	2595.5
50°	4343.5	4382.5	4600.0	4782.6	4535.8	4117.7	3861.2	3640.9	3698.1	3723.2	3016.5
52.5°	3582.4	3647.9	4025.7	4442.4	4432.7	4226.4	4156.7	4091.2	4347.7	4392.3	3638.1
55°	2722.3	2765.6	3257.6	3805.4	3983.8	4137.2	4414.6	4662.7	5207.7	5198.0	4269.6
57.5°	2033.7	2074.2	2497.9	3105.7	3341.2	3751.1	4547.0	5316.4	6060.8	6098.4	4862.0
60°	1495.7	1526.4	1887.4	2386.4	2726.5	3160.0	4494.0	5960.4	7043.5	7000.3	5384.7
62.5°	1106.8	1123.5	1384.2	1709.0	2160.6	2574.6	4160.9	6400.9	7828.3	7740.5	5676.1
65°	855.9	861.4	996.7	1169.5	1571.0	2001.7	3664.6	6467.8	8261.8	8168.4	5670.5
66°	762.5	766.7	865.6	999.4	1336.8	1752.2	3447.2	6360.5	8330.1	8231.1	5600.8
67.5°	639.8	637.0	695.6	783.4	1003.6	1352.1	3061.1	6046.9	8249.3	8199.1	5377.8
70°	473.9	475.3	504.6	525.5	586.8	748.5	2210.8	5245.3	7602.5	7599.7	4765.8
72.5°	351.3	355.5	377.8	381.9	366.6	405.6	1274.0	4172.0	6081.7	6083.1	3562.9
75°	263.5	270.4	277.4	280.2	266.2	256.5	575.7	2807.4	4000.6	3971.3	2017.0
77.5°	200.7	203.5	209.1	204.9	202.1	177.0	239.8	1368.8	1975.2	1799.6	653.8
80°	146.4	146.4	151.9	146.4	145.0	126.8	131.0	439.1	579.9	482.3	140.8
82.5°	92.0	90.6	94.8	93.4	90.6	80.8	76.7	122.7	133.8	119.9	68.3
85°	51.6	50.2	48.8	47.4	43.2	36.2	41.8	46.0	61.3	62.7	48.8
87.5°	18.1	18.1	16.7	15.3	12.5	12.5	15.3	15.3	22.3	22.3	25.1
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°	847.5	847.5	847.5	847.5	847.5	847.5	847.5	847.5	847.5	847.5	847.5
2.5°	853.1	837.8	815.4	786.2	765.3	744.4	722.1	709.5	691.4	687.2	692.8
5°	868.4	840.5	784.8	723.4	670.5	623.1	578.5	552.0	525.5	515.8	519.9
7.5°	900.5	853.1	758.3	659.3	571.5	500.4	447.5	416.8	393.1	383.3	386.1
10°	947.9	875.4	733.2	586.8	473.9	398.7	354.1	334.5	320.6	315.0	316.4
12.5°	1005.0	907.4	701.1	514.4	390.3	324.8	303.9	299.7	296.9	294.1	295.5
15°	1069.1	935.3	663.5	443.3	324.8	288.5	281.6	280.2	278.8	278.8	278.8
17.5°	1136.1	960.4	621.7	376.4	283.0	266.2	262.1	262.1	262.1	263.5	263.5
20°	1198.8	979.9	572.9	316.4	259.3	245.3	242.5	242.5	243.9	245.3	245.3
22.5°	1260.1	988.3	515.8	274.6	239.8	227.2	223.0	223.0	223.0	224.4	224.4
25°	1313.1	988.3	458.6	248.1	223.0	210.5	204.9	203.5	204.9	204.9	204.9
27.5°	1357.7	984.1	402.8	230.0	206.3	193.8	188.2	186.8	189.6	191.0	191.0
30°	1405.1	978.5	358.2	213.3	192.4	179.8	174.2	174.2	178.4	184.0	184.0
32.5°	1451.1	982.7	323.4	199.3	178.4	168.7	163.1	164.5	172.8	181.2	181.2
35°	1499.9	991.1	302.5	189.6	168.7	158.9	154.7	158.9	167.3	175.6	175.6
37.5°	1548.7	1000.8	289.9	181.2	160.3	150.5	147.8	153.3	163.1	171.5	172.8
40°	1600.2	1009.2	276.0	172.8	154.7	143.6	142.2	147.8	160.3	168.7	170.1
42.5°	1664.3	1025.9	259.3	165.9	149.2	135.2	136.6	140.8	153.3	165.9	167.3
45°	1789.8	1078.9	242.5	158.9	142.2	131.0	128.2	131.0	145.0	158.9	161.7
47.5°	2025.4	1198.8	224.4	151.9	135.2	128.2	117.1	119.9	132.4	147.8	149.2
50°	2477.0	1453.9	214.7	145.0	129.6	118.5	105.9	105.9	115.7	129.6	129.6
52.5°	3180.9	1911.1	220.2	139.4	122.7	108.7	96.2	94.8	100.4	110.1	110.1
55°	3940.6	2412.9	241.1	133.8	114.3	103.2	89.2	82.2	86.4	92.0	92.0
57.5°	4542.8	2665.2	298.3	131.0	104.5	99.0	80.8	71.1	75.3	80.8	80.8
60°	4807.7	2517.4	362.4	133.8	97.6	92.0	72.5	62.7	69.7	75.3	76.7
62.5°	4593.0	2072.8	388.9	126.8	87.8	82.2	71.1	58.5	66.9	71.1	72.5
65°	4128.8	1575.1	303.9	110.1	80.8	71.1	64.1	55.8	62.7	66.9	66.9
66°	3908.6	1373.0	259.3	101.8	78.1	66.9	61.3	55.8	61.3	64.1	65.5
67.5°	3567.1	1083.1	192.4	89.2	72.5	61.3	57.2	53.0	58.5	61.3	61.3
70°	2789.2	645.4	115.7	69.7	62.7	54.4	51.6	48.8	53.0	54.4	54.4
72.5°	1746.6	306.7	73.9	51.6	53.0	51.6	43.2	46.0	47.4	48.8	48.8
75°	846.1	121.3	50.2	37.6	43.2	48.8	34.8	40.4	41.8	44.6	43.2
77.5°	235.6	58.5	32.1	27.9	37.6	37.6	26.5	32.1	37.6	47.4	43.2
80°	68.3	37.6	20.9	20.9	26.5	26.5	18.1	22.3	25.1	27.9	29.3
82.5°	47.4	25.1	13.9	15.3	15.3	16.7	11.2	11.2	13.9	13.9	15.3
85°	37.6	11.2	8.4	9.8	7.0	8.4	5.6	5.6	7.0	5.6	5.6
87.5°	15.3	5.6	5.6	5.6	4.2	4.2	2.8	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)