

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: P1211592

Luminaire Tested: **ARCH4-50-750-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211592
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: ARCH4-50-750-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 435mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6812 lumens
Efficiency: N/A
Efficacy: 128.0 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

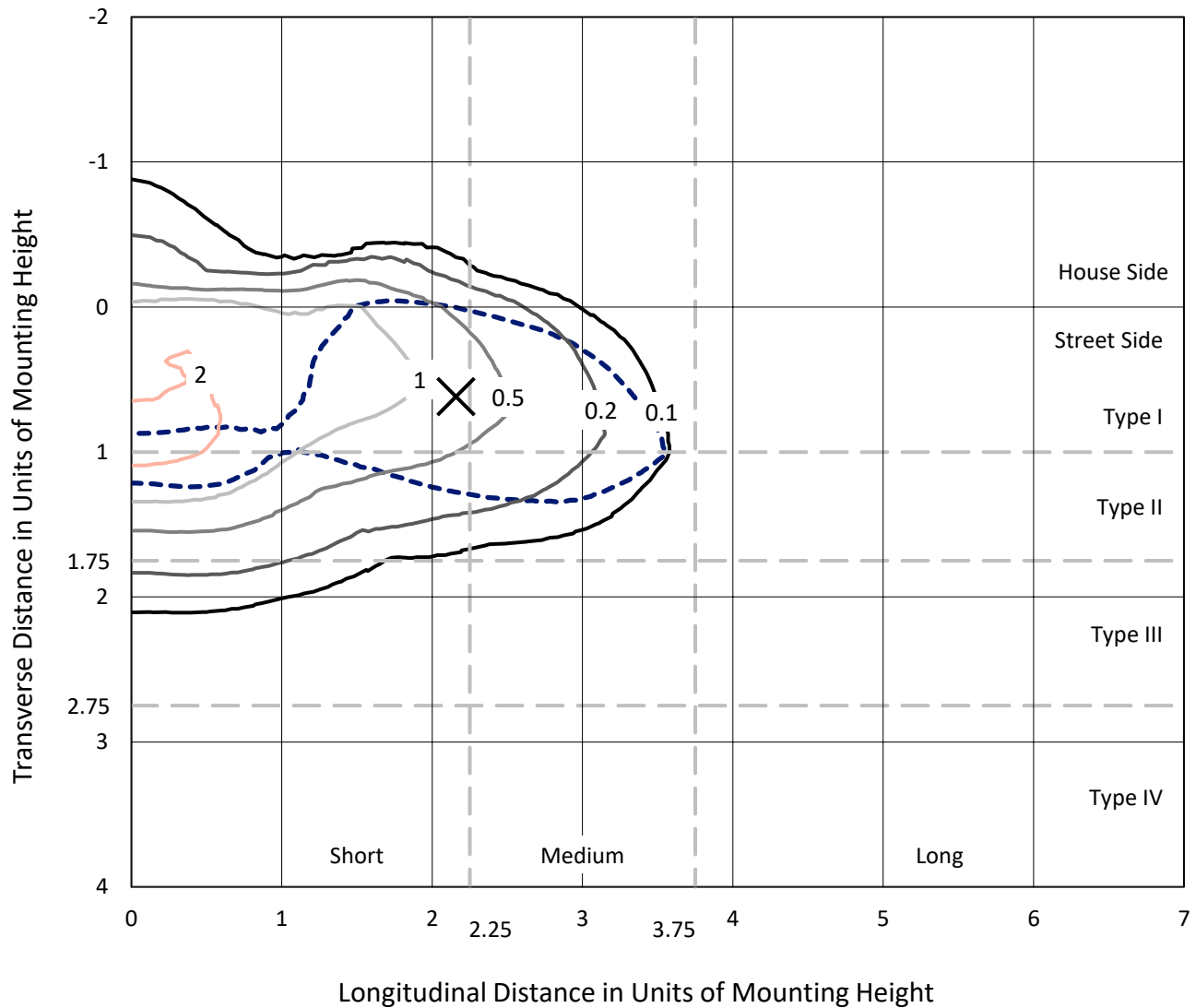
Input Watts (W): 53.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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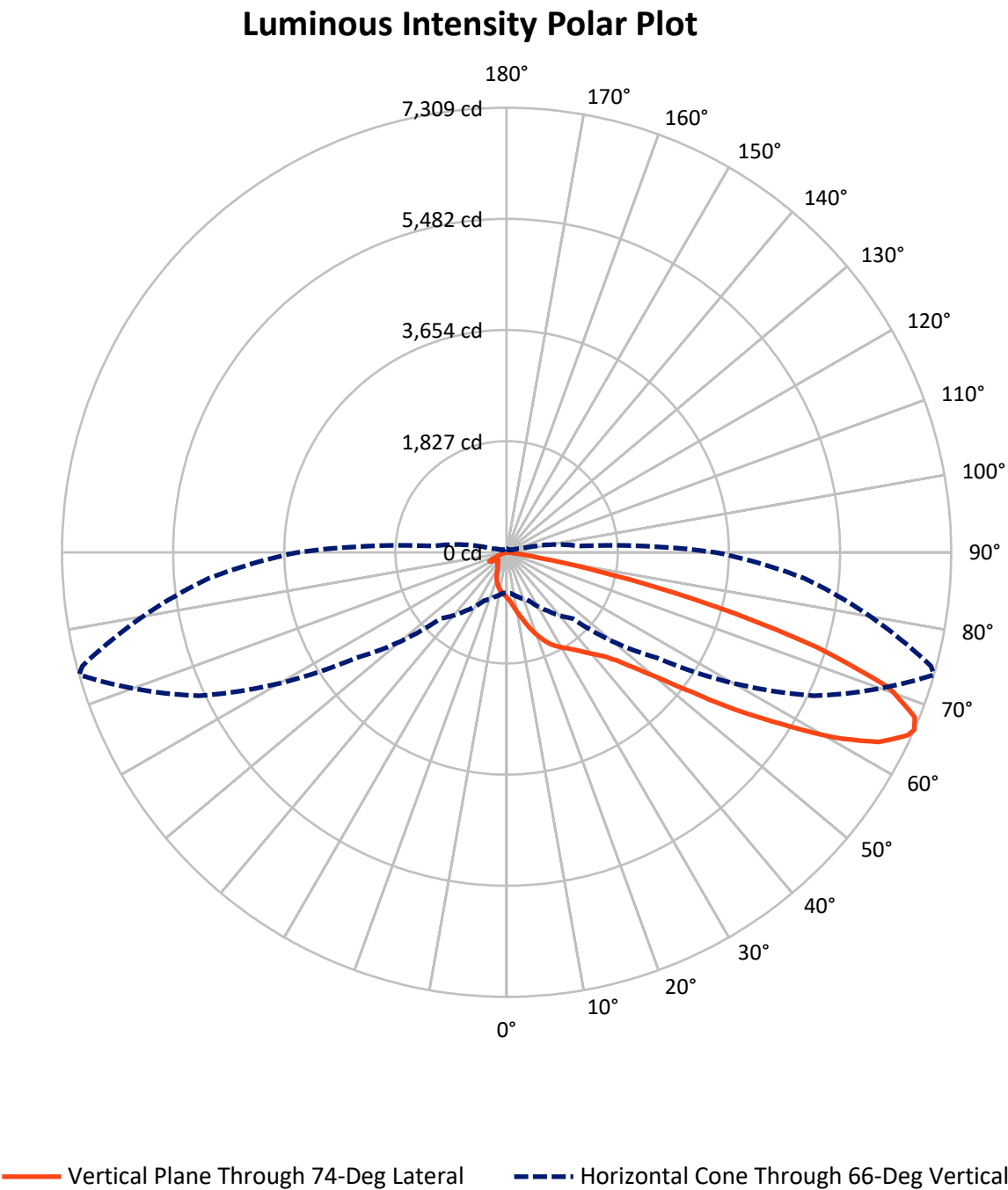
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	667.8	0.0	667.8
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	6144.2	0.0	6144.2
	% Fixture	90.2	0.0	90.2
Total	Lumens	6812.0	0.0	6812.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.6	1.1
10°-20°	232.7	3.4
20°-30°	444.1	6.5
30°-40°	778.3	11.4
40°-50°	1334.6	19.6
50°-60°	1735.7	25.5
60°-70°	1571.3	23.1
70°-80°	606.3	8.9
80°-90°	36.5	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°	6812.0	100.0
0°-180°	6812.0	100.0

Coefficient of Utilization



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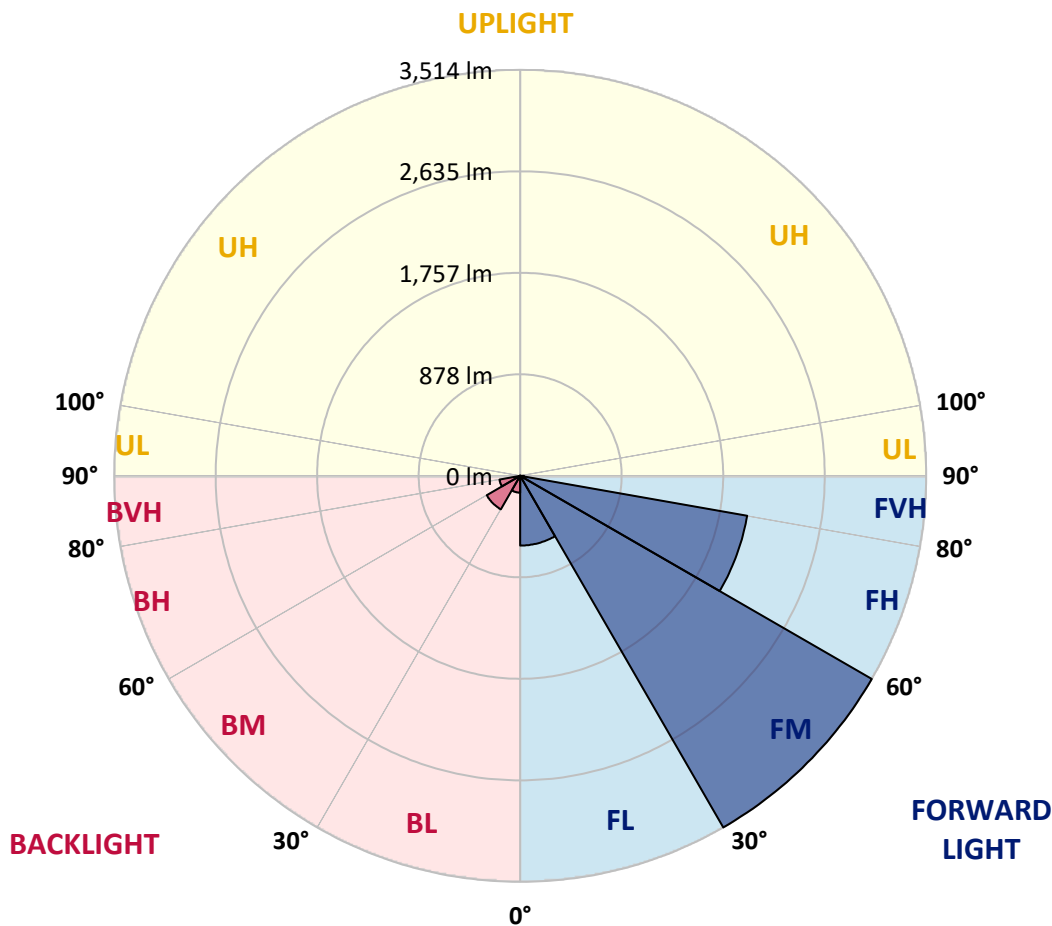
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	603.6	8.9			
FM	(30°-60°)	3514.0	51.6			
FH	(60°-80°)	1995.0	29.3			G2/5000
FVH	(80°-90°)	31.6	0.5			G1/100
BL	(0°-30°)	145.7	2.1	B1/500		
BM	(30°-60°)	334.7	4.9	B1/1000		
BH	(60°-80°)	182.6	2.7	B1/500		G1/500
BVH	(80°-90°)	4.9	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°	743.6	743.6	743.6	743.6	743.6	743.6	743.6	743.6	743.6	743.6	743.6
2.5°	892.8	885.5	872.0	870.8	859.8	846.3	823.1	798.6	781.5	779.1	758.3
5°	1068.9	1065.2	1051.8	1043.2	1022.4	990.6	936.8	883.0	837.8	832.9	786.4
7.5°	1115.4	1117.8	1120.3	1128.8	1121.5	1106.8	1066.5	990.6	919.7	908.7	828.0
10°	1122.7	1120.3	1120.3	1131.3	1152.1	1172.9	1168.0	1103.2	1011.4	998.0	885.5
12.5°	1202.2	1205.9	1197.3	1192.4	1188.8	1199.8	1236.5	1208.3	1108.0	1097.0	955.2
15°	1304.9	1303.7	1291.5	1291.5	1280.5	1262.1	1285.4	1306.2	1224.2	1210.8	1034.7
17.5°	1379.6	1384.4	1383.2	1390.6	1386.9	1362.4	1350.2	1393.0	1344.1	1327.0	1125.2
20°	1439.5	1452.9	1457.8	1481.1	1492.1	1474.9	1443.1	1470.1	1459.0	1443.1	1216.9
22.5°	1503.1	1514.1	1522.6	1563.0	1593.6	1589.9	1549.6	1543.4	1570.3	1555.7	1307.4
25°	1566.7	1571.6	1597.2	1646.2	1695.1	1707.3	1665.7	1618.0	1670.6	1657.2	1388.1
27.5°	1636.4	1638.8	1669.4	1729.3	1797.8	1823.5	1790.5	1702.4	1747.7	1747.7	1461.5
30°	1763.6	1788.0	1800.3	1854.1	1914.0	1949.5	1910.3	1791.7	1816.2	1827.2	1538.5
32.5°	2037.5	2041.2	2037.5	2060.8	2073.0	2093.8	2048.5	1892.0	1885.9	1898.1	1614.4
35°	2455.8	2441.1	2402.0	2367.7	2296.8	2257.7	2199.0	2020.4	1971.5	1988.6	1689.0
37.5°	2963.3	2942.6	2853.3	2748.1	2596.4	2439.9	2366.5	2177.0	2080.3	2102.4	1769.7
40°	3447.7	3434.2	3327.8	3198.2	2938.9	2671.0	2515.7	2309.0	2201.4	2210.0	1851.6
42.5°	3846.4	3843.9	3754.6	3618.9	3286.2	2920.5	2691.8	2438.7	2328.6	2342.1	1937.2
45°	4148.4	4125.2	4059.2	3961.3	3622.5	3179.8	2904.6	2635.6	2532.8	2548.7	2065.7
47.5°	4148.4	4152.1	4194.9	4185.1	3857.4	3423.2	3137.0	2883.9	2834.9	2849.6	2277.2
50°	3810.9	3845.1	4035.9	4196.1	3979.7	3612.8	3387.7	3194.5	3244.6	3266.7	2646.6
52.5°	3143.1	3200.6	3532.0	3897.7	3889.2	3708.2	3647.0	3589.5	3814.6	3853.7	3192.1
55°	2388.5	2426.4	2858.2	3338.8	3495.4	3629.9	3873.3	4091.0	4569.2	4560.6	3746.1
57.5°	1784.4	1819.8	2191.6	2724.9	2931.5	3291.1	3989.5	4664.6	5317.6	5350.7	4265.9
60°	1312.3	1339.2	1656.0	2093.8	2392.2	2772.6	3943.0	5229.6	6179.9	6141.9	4724.5
62.5°	971.1	985.7	1214.4	1499.4	1895.7	2258.9	3650.7	5616.1	6868.4	6791.4	4980.1
65°	750.9	755.8	874.5	1026.1	1378.3	1756.2	3215.3	5674.8	7248.8	7166.8	4975.2
66°	669.0	672.7	759.5	876.9	1172.9	1537.3	3024.5	5580.6	7308.7	7221.9	4914.0
67.5°	561.4	558.9	610.3	687.3	880.6	1186.3	2685.7	5305.4	7237.8	7193.7	4718.4
70°	415.8	417.0	442.7	461.1	514.9	656.8	1939.7	4602.2	6670.3	6667.8	4181.5
72.5°	308.2	311.9	331.4	335.1	321.7	355.9	1117.8	3660.5	5336.0	5337.2	3126.0
75°	231.1	237.3	243.4	245.8	233.6	225.0	505.1	2463.1	3510.0	3484.3	1769.7
77.5°	176.1	178.6	183.5	179.8	177.3	155.3	210.4	1201.0	1733.0	1578.9	573.6
80°	128.4	128.4	133.3	128.4	127.2	111.3	115.0	385.2	508.8	423.2	123.5
82.5°	80.7	79.5	83.2	81.9	79.5	70.9	67.3	107.6	117.4	105.2	59.9
85°	45.3	44.0	42.8	41.6	37.9	31.8	36.7	40.4	53.8	55.0	42.8
87.5°	15.9	15.9	14.7	13.5	11.0	11.0	13.5	13.5	19.6	19.6	22.0
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°	743.6	743.6	743.6	743.6	743.6	743.6	743.6	743.6	743.6	743.6	743.6
2.5°	748.5	735.0	715.5	689.8	671.4	653.1	633.5	622.5	606.6	602.9	607.8
5°	761.9	737.5	688.6	634.7	588.3	546.7	507.5	484.3	461.1	452.5	456.2
7.5°	790.1	748.5	665.3	578.5	501.4	439.1	392.6	365.7	344.9	336.3	338.8
10°	831.6	768.0	643.3	514.9	415.8	349.8	310.6	293.5	281.3	276.4	277.6
12.5°	881.8	796.2	615.2	451.3	342.4	285.0	266.6	262.9	260.5	258.1	259.3
15°	938.0	820.6	582.2	388.9	285.0	253.2	247.0	245.8	244.6	244.6	244.6
17.5°	996.8	842.7	545.5	330.2	248.3	233.6	229.9	229.9	229.9	231.1	231.1
20°	1051.8	859.8	502.7	277.6	227.5	215.2	212.8	212.8	214.0	215.2	215.2
22.5°	1105.6	867.1	452.5	240.9	210.4	199.4	195.7	195.7	195.7	196.9	196.9
25°	1152.1	867.1	402.4	217.7	195.7	184.7	179.8	178.6	179.8	179.8	179.8
27.5°	1191.2	863.4	353.4	201.8	181.0	170.0	165.1	163.9	166.3	167.6	167.6
30°	1232.8	858.6	314.3	187.1	168.8	157.8	152.9	152.9	156.5	161.4	161.4
32.5°	1273.2	862.2	283.7	174.9	156.5	148.0	143.1	144.3	151.7	159.0	159.0
35°	1316.0	869.6	265.4	166.3	148.0	139.4	135.8	139.4	146.8	154.1	154.1
37.5°	1358.8	878.1	254.4	159.0	140.6	132.1	129.6	134.5	143.1	150.4	151.7
40°	1404.0	885.5	242.2	151.7	135.8	126.0	124.7	129.6	140.6	148.0	149.2
42.5°	1460.3	900.1	227.5	145.5	130.9	118.6	119.9	123.5	134.5	145.5	146.8
45°	1570.3	946.6	212.8	139.4	124.7	115.0	112.5	115.0	127.2	139.4	141.9
47.5°	1777.0	1051.8	196.9	133.3	118.6	112.5	102.7	105.2	116.2	129.6	130.9
50°	2173.3	1275.6	188.3	127.2	113.7	104.0	92.9	92.9	101.5	113.7	113.7
52.5°	2790.9	1676.7	193.2	122.3	107.6	95.4	84.4	83.2	88.1	96.6	96.6
55°	3457.4	2117.0	211.6	117.4	100.3	90.5	78.3	72.2	75.8	80.7	80.7
57.5°	3985.8	2338.4	261.7	115.0	91.7	86.8	70.9	62.4	66.0	70.9	70.9
60°	4218.2	2208.8	318.0	117.4	85.6	80.7	63.6	55.0	61.2	66.0	67.3
62.5°	4029.8	1818.6	341.2	111.3	77.0	72.2	62.4	51.4	58.7	62.4	63.6
65°	3622.5	1382.0	266.6	96.6	70.9	62.4	56.3	48.9	55.0	58.7	58.7
66°	3429.3	1204.7	227.5	89.3	68.5	58.7	53.8	48.9	53.8	56.3	57.5
67.5°	3129.7	950.3	168.8	78.3	63.6	53.8	50.1	46.5	51.4	53.8	53.8
70°	2447.2	566.3	101.5	61.2	55.0	47.7	45.3	42.8	46.5	47.7	47.7
72.5°	1532.4	269.1	64.8	45.3	46.5	45.3	37.9	40.4	41.6	42.8	42.8
75°	742.4	106.4	44.0	33.0	37.9	42.8	30.6	35.5	36.7	39.1	37.9
77.5°	206.7	51.4	28.1	24.5	33.0	33.0	23.2	28.1	33.0	41.6	37.9
80°	59.9	33.0	18.3	18.3	23.2	23.2	15.9	19.6	22.0	24.5	25.7
82.5°	41.6	22.0	12.2	13.5	13.5	14.7	9.8	9.8	12.2	12.2	13.5
85°	33.0	9.8	7.3	8.6	6.1	7.3	4.9	4.9	6.1	4.9	4.9
87.5°	13.5	4.9	4.9	4.9	3.7	3.7	2.4	1.2	1.2	1.2	1.2
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)