

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: P799618

Luminaire Tested: **ARCH2-40-727-U-T2R-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799618
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-2)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-40-727-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 335mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

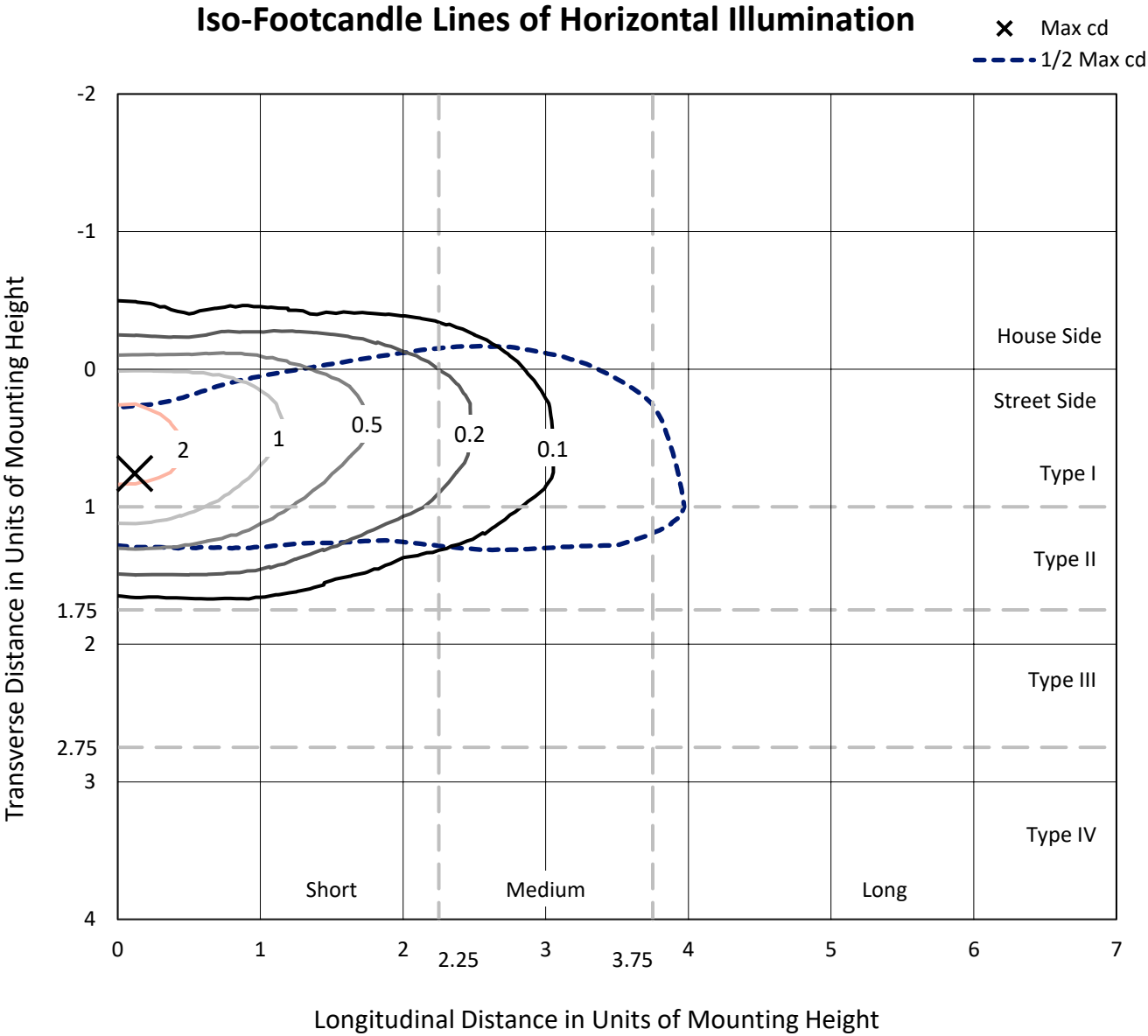
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4413 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 44.1
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



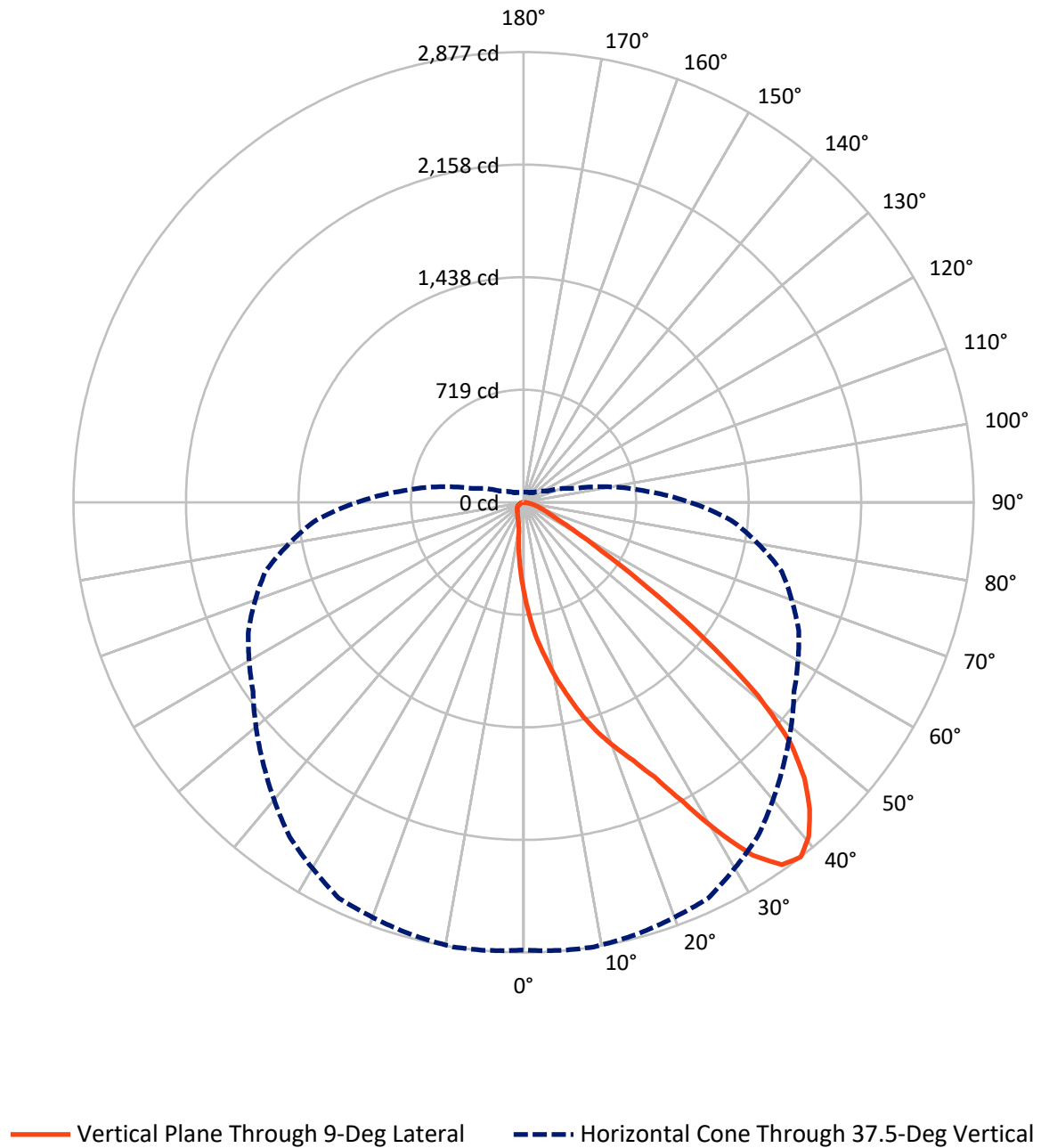
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Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	536.7	0.0	536.7
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	3876.3	0.0	3876.3
	% Fixture	87.8	0.0	87.8
Total	Lumens	4413.0	0.0	4413.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.6	1.3
10°-20°	203.8	4.6
20°-30°	418.8	9.5
30°-40°	740.2	16.8
40°-50°	983.3	22.3
50°-60°	932.6	21.1
60°-70°	711.5	16.1
70°-80°	344.9	7.8
80°-90°	19.4	0.4
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°	4413.0	100.0
0°-180°	4413.0	100.0

Coefficient of Utilization



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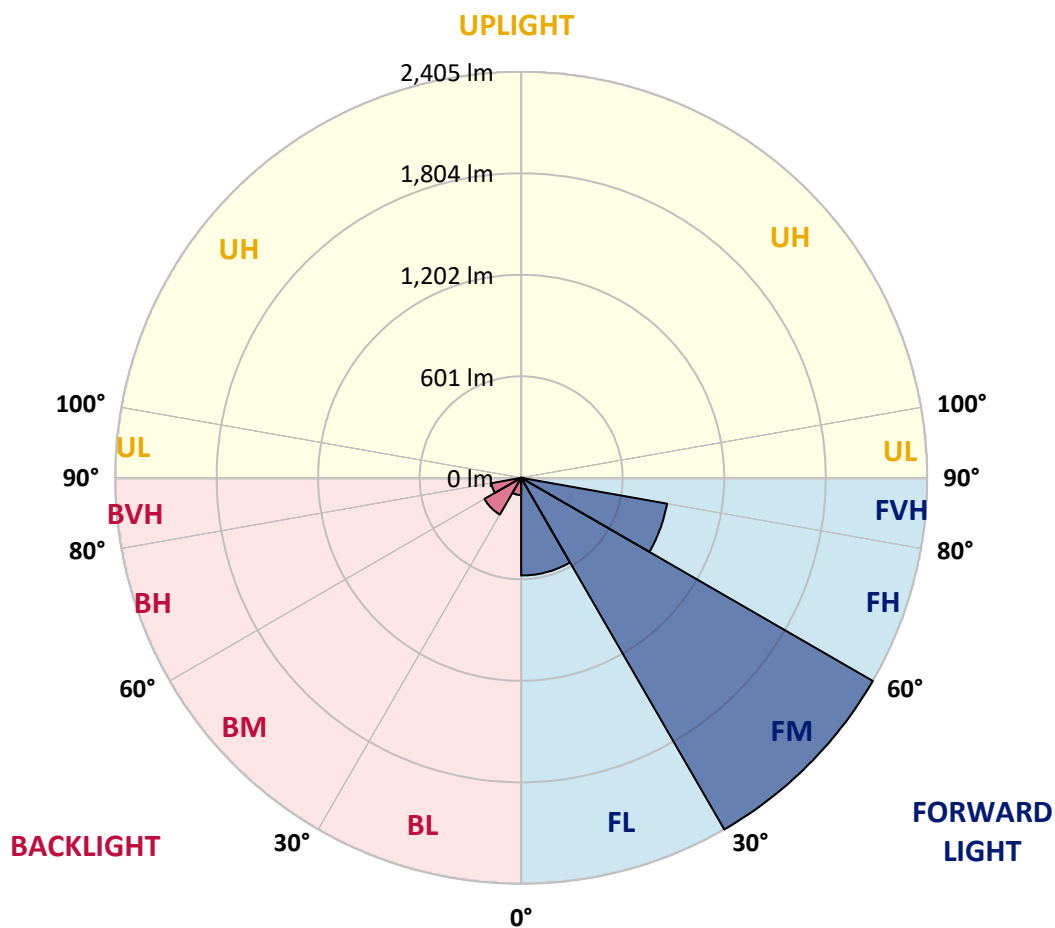
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	578.8	13.1			
FM	(30°-60°)	2404.9	54.5			
FH	(60°-80°)	877.3	19.9			G1/1800
FVH	(80°-90°)	15.4	0.3			G1/100
BL	(0°-30°)	102.4	2.3	B0/110		
BM	(30°-60°)	251.1	5.7	B1/1000		
BH	(60°-80°)	179.1	4.1	B1/500		G1/500
BVH	(80°-90°)	4.0	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-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	583.3	583.3	583.3	583.3	583.3	583.3	583.3	583.3	583.3	583.3	583.3
2.5°	722.8	710.2	724.7	722.8	710.2	702.0	676.6	668.5	638.6	616.9	597.8
5°	871.4	858.7	871.4	867.8	849.7	829.7	788.1	760.9	707.4	660.3	617.8
7.5°	994.6	994.6	1000.0	1000.9	979.2	948.4	896.8	856.0	780.8	708.3	640.4
10°	1127.7	1128.6	1140.4	1132.3	1103.3	1061.6	996.4	944.8	854.2	759.1	662.2
12.5°	1270.0	1270.9	1274.5	1270.9	1236.4	1183.0	1104.2	1036.3	932.1	817.0	692.0
15°	1412.2	1413.1	1417.6	1411.3	1373.2	1310.7	1221.0	1137.7	1014.5	882.3	728.3
17.5°	1545.3	1547.1	1550.8	1542.6	1502.7	1428.5	1337.0	1236.4	1102.4	952.0	769.0
20°	1664.9	1666.7	1669.4	1658.5	1618.7	1544.4	1445.7	1340.6	1192.1	1023.6	813.4
22.5°	1785.4	1787.2	1791.7	1777.2	1732.8	1647.7	1550.8	1442.1	1287.2	1102.4	865.1
25°	1939.4	1941.2	1944.8	1924.0	1863.3	1763.6	1661.3	1549.9	1390.4	1191.1	928.5
27.5°	2164.9	2163.1	2163.1	2125.0	2020.9	1891.3	1772.7	1659.5	1501.8	1286.3	998.2
30°	2443.9	2439.4	2436.6	2385.0	2236.5	2035.4	1886.8	1761.8	1608.7	1386.8	1073.4
32.5°	2693.9	2693.9	2688.5	2634.1	2476.5	2229.2	2008.2	1861.5	1712.0	1488.3	1151.3
35°	2841.5	2847.9	2845.2	2804.4	2689.4	2437.5	2172.1	1981.0	1820.7	1594.2	1244.6
37.5°	2861.5	2874.2	2876.9	2852.4	2791.7	2607.8	2354.2	2110.6	1940.3	1708.4	1335.2
40°	2780.9	2808.0	2808.0	2804.4	2782.7	2688.5	2507.3	2260.9	2063.4	1827.0	1426.7
42.5°	2656.8	2684.8	2681.2	2694.8	2689.4	2669.4	2593.3	2401.3	2186.6	1949.3	1510.0
45°	2494.6	2523.6	2516.4	2540.8	2551.7	2573.4	2584.3	2499.1	2308.0	2082.5	1603.3
47.5°	2234.6	2283.6	2294.4	2337.9	2383.2	2451.1	2502.8	2534.5	2421.2	2225.6	1704.7
50°	1850.6	1919.4	1941.2	2032.7	2156.7	2297.1	2380.5	2491.0	2501.0	2372.3	1814.3
52.5°	1325.2	1404.9	1438.4	1588.8	1844.2	2088.8	2239.2	2395.0	2531.8	2512.7	1933.0
55°	856.9	924.8	957.4	1098.8	1438.4	1822.5	2072.5	2270.9	2514.5	2641.4	2068.9
57.5°	528.1	567.0	588.8	710.2	1022.7	1481.0	1854.2	2156.7	2462.0	2752.8	2210.2
60°	356.0	378.6	389.5	446.6	694.8	1106.9	1554.4	2037.2	2393.2	2828.0	2338.8
62.5°	236.4	243.7	254.5	289.9	458.3	777.2	1193.9	1823.4	2341.5	2832.5	2433.9
65°	183.0	186.6	191.1	206.5	282.6	543.5	839.7	1477.4	2264.5	2736.5	2463.8
67.5°	144.0	147.6	153.1	161.2	204.7	368.7	571.6	1082.4	2106.9	2586.1	2414.9
70°	113.2	115.9	119.6	126.8	159.4	267.2	377.7	719.2	1789.0	2443.0	2260.9
72.5°	89.7	92.4	96.0	103.3	129.5	195.7	259.1	448.4	1379.6	2268.2	1964.7
75°	70.7	72.5	75.2	82.4	104.2	152.2	175.7	268.1	937.5	1948.4	1530.8
77.5°	35.3	43.5	49.8	57.1	76.1	105.1	116.9	148.6	395.8	1000.0	730.1
80°	20.8	25.4	27.2	31.7	49.8	63.4	63.4	59.8	125.0	384.1	298.0
82.5°	11.8	16.3	17.2	18.1	29.9	36.2	29.0	21.7	25.4	128.6	87.0
85°	3.6	5.4	6.3	7.2	10.0	10.9	10.0	9.1	7.2	12.7	8.2
87.5°	0.0	0.0	0.0	0.0	0.9	1.8	1.8	1.8	2.7	2.7	2.7
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°	583.3	583.3	583.3	583.3	583.3	583.3	583.3	583.3	583.3	583.3	583.3
2.5°	587.0	575.2	552.5	531.7	511.8	497.3	483.7	471.0	462.0	454.7	453.8
5°	595.1	571.6	528.1	487.3	450.2	419.4	393.1	372.3	356.9	346.0	345.1
7.5°	606.0	569.8	503.6	442.9	387.7	343.3	305.3	277.2	257.3	249.1	242.8
10°	615.0	567.9	479.2	398.6	326.1	269.9	224.6	196.6	182.1	176.6	173.9
12.5°	630.4	569.8	458.3	357.8	272.7	206.5	172.1	156.7	150.4	145.8	144.9
15°	653.1	577.9	438.4	317.9	218.3	166.7	146.7	136.8	130.4	129.5	128.6
17.5°	675.7	585.2	420.3	277.2	181.2	144.9	131.3	123.2	118.7	117.8	117.8
20°	702.0	594.2	400.4	238.2	154.9	130.4	119.6	113.2	107.8	106.9	106.9
22.5°	732.8	606.9	381.3	203.8	137.7	119.6	110.5	103.3	98.7	97.8	97.8
25°	774.5	625.9	365.9	178.4	125.9	110.5	102.4	96.0	92.4	90.6	90.6
27.5°	820.7	652.2	355.1	163.0	117.8	103.3	95.1	89.7	86.1	84.2	84.2
30°	872.3	681.2	347.8	156.7	113.2	96.9	89.7	84.2	79.7	78.8	78.8
32.5°	929.4	714.7	343.3	157.6	112.3	92.4	84.2	78.8	75.2	73.4	73.4
35°	992.8	751.8	340.6	163.0	114.1	88.8	79.7	74.3	70.7	68.8	68.8
37.5°	1063.4	795.3	340.6	168.5	118.7	87.9	75.2	69.7	67.0	65.2	65.2
40°	1129.6	841.5	344.2	174.8	123.2	87.9	71.6	67.0	63.4	61.6	61.6
42.5°	1181.2	867.8	346.9	181.2	125.9	87.0	67.9	63.4	60.7	58.9	58.9
45°	1240.1	895.9	341.5	183.9	125.9	85.1	65.2	60.7	58.0	56.2	56.2
47.5°	1305.3	930.3	340.6	185.7	123.2	81.5	62.5	58.0	56.2	54.3	54.3
50°	1371.4	968.3	342.4	184.8	119.6	76.1	58.9	56.2	53.4	51.6	51.6
52.5°	1446.6	1008.2	346.0	183.0	111.4	69.7	56.2	53.4	50.7	48.9	48.0
55°	1529.9	1051.7	353.3	179.4	100.5	63.4	53.4	50.7	47.1	45.3	44.4
57.5°	1625.9	1105.1	361.4	172.1	88.8	58.0	50.7	47.1	41.7	39.0	38.0
60°	1717.4	1165.8	370.5	154.9	77.0	52.5	48.0	42.6	37.1	35.3	34.4
62.5°	1803.5	1225.6	375.0	124.1	65.2	48.0	45.3	39.0	33.5	31.7	30.8
65°	1858.7	1290.8	365.0	84.2	53.4	44.4	41.7	36.2	30.8	28.1	28.1
67.5°	1862.4	1321.6	330.6	55.3	43.5	39.9	38.0	32.6	27.2	25.4	24.5
70°	1770.9	1275.4	252.7	43.5	36.2	34.4	34.4	29.0	23.6	21.7	20.8
72.5°	1560.7	1129.6	161.2	35.3	30.8	29.0	29.0	24.5	20.8	18.1	17.2
75°	1231.9	871.4	86.1	29.0	25.4	24.5	22.6	19.9	17.2	15.4	14.5
77.5°	566.1	384.1	39.9	20.8	19.0	19.0	17.2	14.5	13.6	11.8	11.8
80°	223.7	130.4	19.9	13.6	12.7	12.7	12.7	10.0	10.0	8.2	7.2
82.5°	61.6	27.2	10.0	8.2	8.2	8.2	7.2	6.3	6.3	5.4	5.4
85°	6.3	4.5	4.5	4.5	4.5	3.6	3.6	2.7	1.8	1.8	1.8
87.5°	2.7	2.7	2.7	2.7	2.7	1.8	0.9	0.0	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)