

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: P842391

Luminaire Tested: **ARCH4-40-730-U-T3-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842391
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-40-730-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 355mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5175 lumens
Efficiency: N/A
Efficacy: 118.2 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 43.8
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



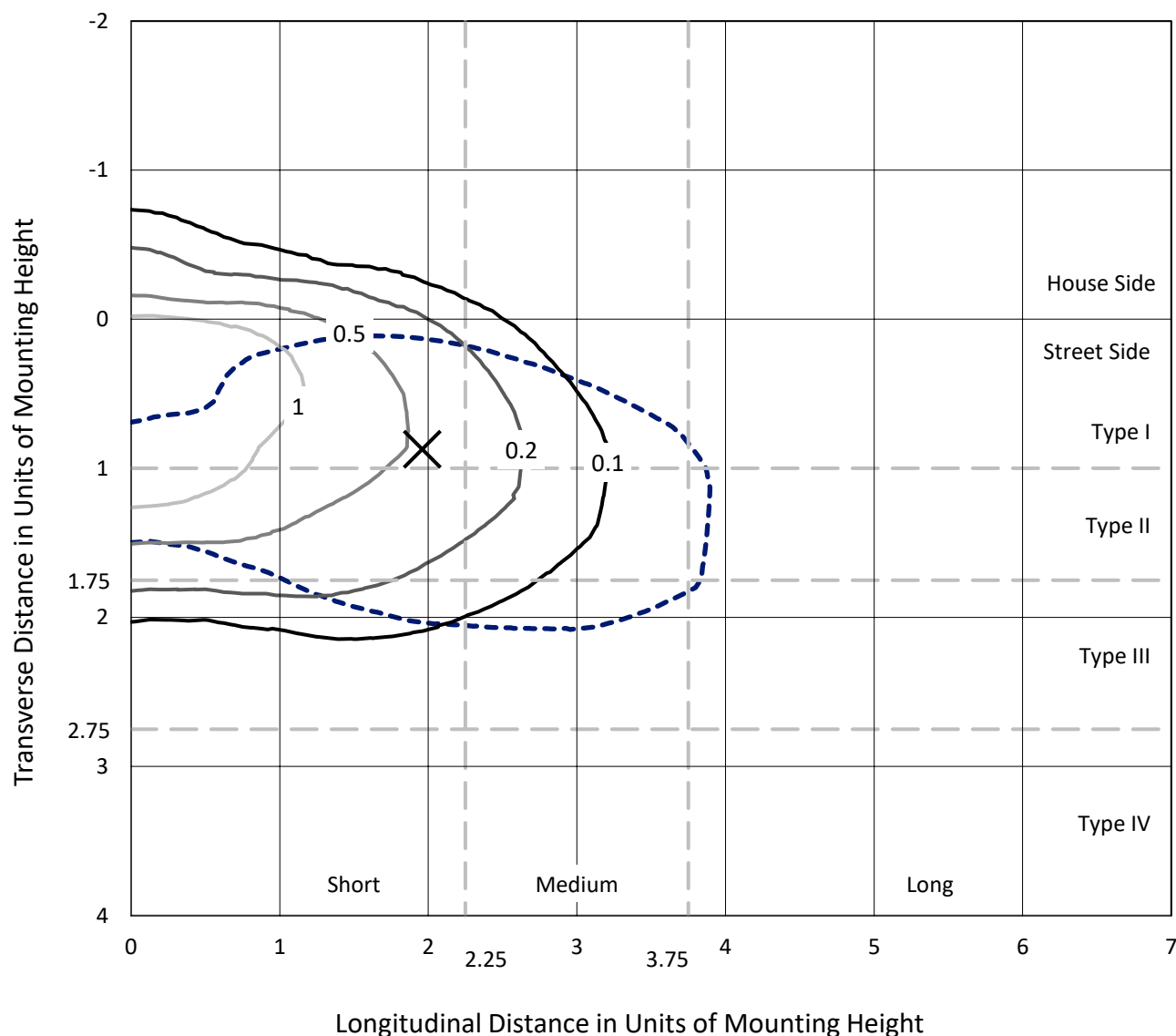
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



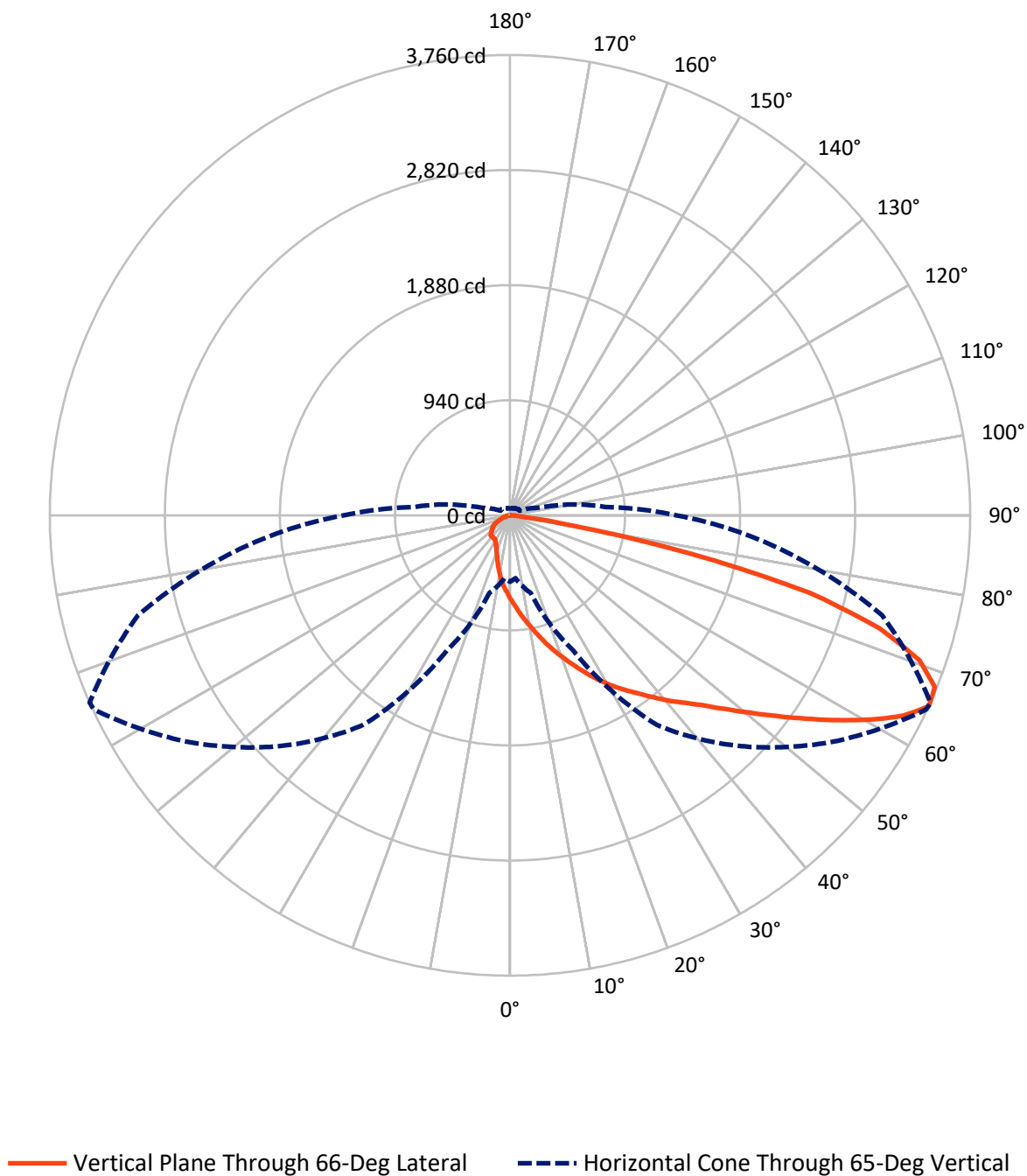
Based on 25 foot mounting height. Maximum calculated value = 2 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	547.4	0.0	547.4
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	4627.6	0.0	4627.6
	% Fixture	89.4	0.0	89.4
Total	Lumens	5175.0	0.0	5175.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.6	1.3
10°-20°	220.3	4.3
20°-30°	398.6	7.7
30°-40°	623.3	12.0
40°-50°	945.6	18.3
50°-60°	1201.4	23.2
60°-70°	1122.6	21.7
70°-80°	557.9	10.8
80°-90°	37.5	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°	5175.0	100.0
0°-180°	5175.0	100.0

Coefficient of Utilization



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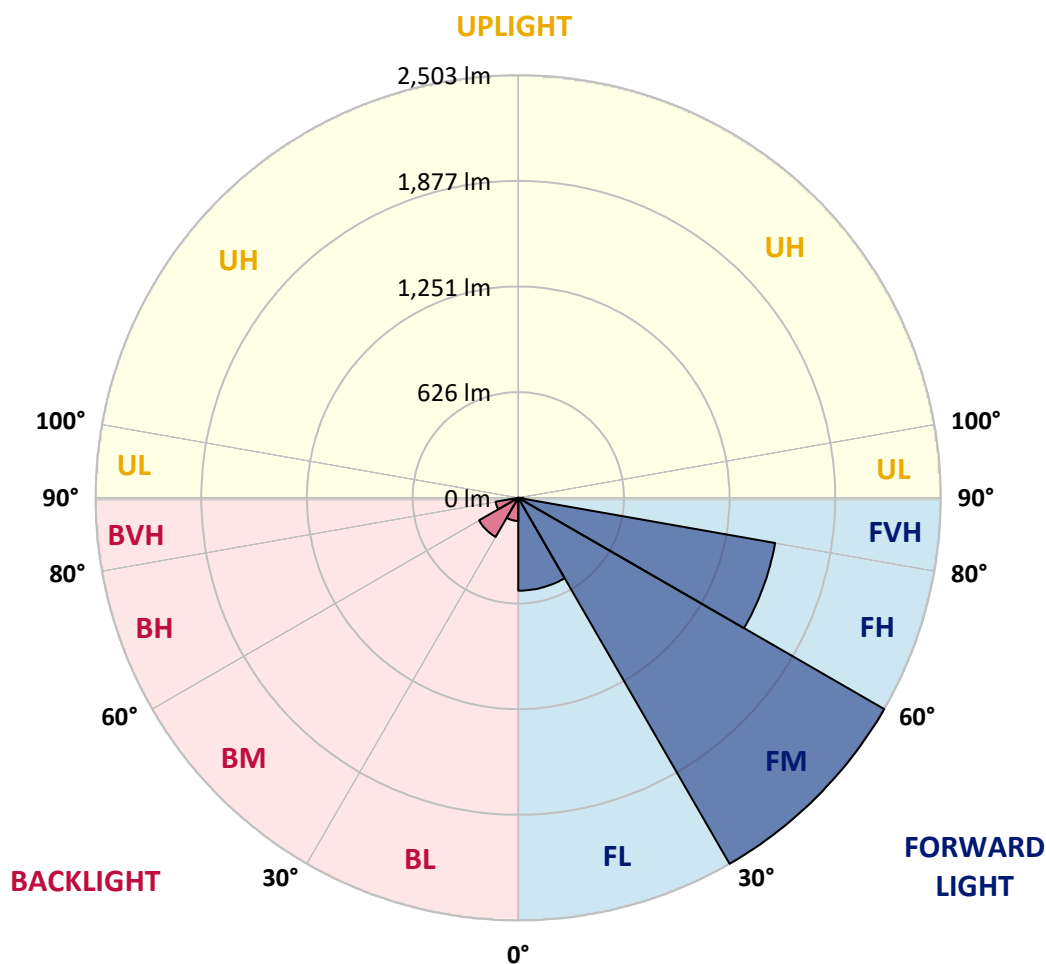
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	549.8	10.6			
FM	(30°-60°)	2502.7	48.4			
FH	(60°-80°)	1544.2	29.8			G1/1800
FVH	(80°-90°)	30.9	0.6			G1/100
BL	(0°-30°)	136.7	2.6	B1/500		
BM	(30°-60°)	267.7	5.2	B1/1000		
BH	(60°-80°)	136.3	2.6	B1/500		G1/500
BVH	(80°-90°)	6.6	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-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	684.9	684.9	684.9	684.9	684.9	684.9	684.9	684.9	684.9	684.9	684.9
2.5°	799.9	806.4	809.7	810.8	785.8	775.0	764.1	739.2	733.7	719.6	701.2
5°	941.0	949.7	947.5	943.2	912.8	878.1	849.9	803.2	795.6	761.9	720.7
7.5°	1080.0	1087.6	1085.4	1069.1	1035.5	986.6	940.0	871.6	860.7	806.4	740.2
10°	1196.1	1202.6	1201.5	1185.2	1145.1	1085.4	1029.0	937.8	924.8	847.7	756.5
12.5°	1291.6	1300.3	1299.2	1288.4	1252.5	1187.4	1123.4	1013.8	997.5	897.6	779.3
15°	1366.5	1377.4	1377.4	1373.0	1348.1	1293.8	1221.1	1097.3	1077.8	955.1	807.5
17.5°	1412.1	1420.8	1428.4	1436.0	1418.6	1377.4	1311.2	1180.9	1160.3	1011.6	836.8
20°	1436.0	1444.7	1450.1	1466.4	1469.6	1449.0	1396.9	1263.4	1241.7	1075.6	870.5
22.5°	1475.0	1482.6	1483.7	1497.8	1504.4	1509.8	1477.2	1344.8	1327.4	1146.2	908.5
25°	1540.2	1548.9	1545.6	1552.1	1553.2	1559.7	1556.5	1438.1	1420.8	1226.5	954.1
27.5°	1623.7	1634.6	1632.4	1625.9	1616.1	1610.7	1624.8	1532.6	1516.3	1306.8	1000.7
30°	1713.8	1726.9	1723.6	1710.6	1684.5	1661.7	1681.3	1621.6	1606.4	1389.3	1052.8
32.5°	1805.0	1820.2	1819.1	1797.4	1752.9	1713.8	1743.1	1705.2	1694.3	1478.3	1109.3
35°	1864.7	1884.2	1882.1	1869.0	1811.5	1777.9	1813.7	1790.9	1783.3	1586.8	1190.7
37.5°	1961.3	1981.9	1963.5	1930.9	1864.7	1847.3	1890.8	1887.5	1882.1	1701.9	1276.4
40°	2195.7	2226.1	2177.3	2043.8	1935.3	1920.1	1981.9	1995.0	1989.5	1815.9	1353.5
42.5°	2441.0	2486.6	2410.7	2226.1	2063.3	2008.0	2081.8	2100.2	2093.7	1913.5	1422.9
45°	2589.7	2609.3	2533.3	2390.0	2290.2	2114.3	2188.2	2218.5	2213.1	2030.8	1512.0
47.5°	2711.3	2703.7	2616.9	2520.3	2538.7	2264.1	2308.6	2368.3	2364.0	2159.9	1609.6
50°	2737.4	2720.0	2685.3	2624.5	2673.3	2416.1	2435.6	2538.7	2534.4	2303.2	1708.4
52.5°	2553.9	2531.1	2625.6	2676.6	2660.3	2526.8	2575.6	2725.4	2723.3	2458.4	1802.8
55°	2095.9	2077.4	2331.4	2595.2	2646.2	2604.9	2730.8	2919.7	2931.6	2623.4	1888.6
57.5°	1648.7	1629.2	1878.8	2391.1	2594.1	2676.6	2912.1	3142.2	3157.4	2802.5	1970.0
60°	1314.4	1285.1	1476.1	2069.8	2496.4	2731.9	3086.9	3386.4	3388.6	2966.4	2019.9
62.5°	893.3	860.7	1072.4	1662.8	2332.5	2740.6	3221.4	3597.0	3605.7	3089.0	2028.6
65°	542.7	515.6	658.8	1214.6	2090.5	2666.8	3223.6	3752.2	3759.8	3145.5	1976.5
67.5°	314.8	303.9	376.6	756.5	1688.9	2468.2	3087.9	3728.3	3742.4	3121.6	1858.2
70°	183.4	182.3	209.5	374.5	1191.8	2074.2	2785.1	3527.5	3548.1	2996.8	1676.9
72.5°	134.6	136.8	147.6	200.8	690.3	1493.5	2358.6	3123.8	3155.2	2752.6	1418.6
75°	106.4	107.5	117.2	136.8	362.5	844.4	1767.0	2507.3	2532.2	2317.3	1108.2
77.5°	79.2	81.4	89.0	96.6	168.2	387.5	994.2	1544.5	1503.3	1272.1	535.1
80°	57.5	63.0	66.2	69.5	89.0	149.8	298.5	538.4	534.0	555.7	252.9
82.5°	36.9	41.2	44.5	46.7	53.2	71.6	89.0	120.5	130.2	216.0	100.9
85°	16.3	18.5	20.6	25.0	22.8	25.0	36.9	23.9	20.6	32.6	18.5
87.5°	0.0	0.0	3.3	5.4	4.3	2.2	6.5	4.3	3.3	3.3	3.3
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°	684.9	684.9	684.9	684.9	684.9	684.9	684.9	684.9	684.9	684.9	684.9
2.5°	691.4	679.5	654.5	630.6	616.5	598.1	581.8	566.6	565.5	561.1	553.6
5°	700.1	677.3	630.6	586.1	552.5	516.6	486.3	462.4	453.7	447.2	438.5
7.5°	708.8	672.9	603.5	538.4	485.2	435.2	399.4	366.9	357.1	348.4	343.0
10°	712.0	665.3	572.0	485.2	415.7	362.5	324.5	300.7	292.0	287.6	284.4
12.5°	721.8	661.0	542.7	435.2	354.9	306.1	278.9	264.8	261.6	258.3	255.1
15°	734.8	661.0	513.4	386.4	307.2	268.1	251.8	242.0	239.9	238.8	236.6
17.5°	748.9	661.0	485.2	345.2	272.4	243.1	231.2	225.8	224.7	223.6	222.5
20°	768.5	662.1	454.8	309.3	247.5	224.7	214.9	208.4	207.3	206.2	206.2
22.5°	788.0	664.3	425.5	282.2	231.2	210.6	198.6	192.1	189.9	189.9	189.9
25°	813.0	670.8	398.3	259.4	217.1	197.5	182.3	176.9	175.8	175.8	174.7
27.5°	842.3	678.4	374.5	242.0	203.0	182.3	167.2	161.7	159.6	159.6	158.5
30°	873.7	686.0	354.9	229.0	188.9	167.2	153.0	146.5	144.4	145.4	144.4
32.5°	908.5	696.8	339.7	220.3	175.8	154.1	141.1	133.5	132.4	132.4	131.3
35°	967.1	727.2	337.6	216.0	165.0	144.4	131.3	123.7	122.6	122.6	121.6
37.5°	1030.0	761.9	347.3	213.8	156.3	135.7	123.7	116.1	115.1	115.1	115.1
40°	1083.2	788.0	358.2	213.8	150.9	128.1	117.2	110.7	110.7	110.7	110.7
42.5°	1119.0	790.2	356.0	213.8	146.5	122.6	112.9	106.4	106.4	107.5	106.4
45°	1172.2	801.0	347.3	210.6	143.3	118.3	108.5	103.1	102.0	103.1	103.1
47.5°	1235.2	820.6	338.6	197.5	142.2	114.0	105.3	98.8	97.7	98.8	97.7
50°	1294.9	837.9	334.3	180.2	140.0	109.6	100.9	94.4	93.3	94.4	93.3
52.5°	1344.8	845.5	326.7	168.2	134.6	105.3	96.6	90.1	87.9	89.0	89.0
55°	1385.0	843.4	315.8	158.5	124.8	100.9	91.2	85.7	82.5	82.5	81.4
57.5°	1421.9	844.4	306.1	148.7	114.0	94.4	86.8	80.3	76.0	74.9	73.8
60°	1436.0	839.0	288.7	135.7	103.1	89.0	81.4	73.8	69.5	68.4	67.3
62.5°	1416.4	819.5	265.9	112.9	93.3	82.5	76.0	68.4	64.0	63.0	61.9
65°	1361.1	782.6	231.2	89.0	84.7	74.9	69.5	64.0	58.6	56.4	55.4
67.5°	1266.7	729.4	187.8	71.6	74.9	68.4	65.1	58.6	52.1	49.9	48.8
70°	1132.1	658.8	141.1	60.8	66.2	60.8	58.6	52.1	46.7	44.5	43.4
72.5°	943.2	544.9	98.8	52.1	57.5	53.2	51.0	46.7	41.2	38.0	38.0
75°	713.1	390.7	65.1	44.5	47.8	45.6	42.3	39.1	35.8	33.6	32.6
77.5°	307.2	152.0	40.2	33.6	39.1	38.0	33.6	31.5	30.4	28.2	28.2
80°	132.4	61.9	25.0	25.0	28.2	27.1	26.0	23.9	23.9	22.8	21.7
82.5°	48.8	25.0	15.2	18.5	20.6	18.5	18.5	18.5	18.5	17.4	17.4
85°	11.9	7.6	7.6	10.9	11.9	10.9	11.9	10.9	10.9	10.9	9.8
87.5°	3.3	3.3	4.3	4.3	4.3	4.3	4.3	3.3	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)