

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: P842445

Luminaire Tested: **ARCH4-50-722-U-T3-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842445
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: ARCH4-50-722-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 435mA 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: 5538 lumens
Efficiency: N/A
Efficacy: 104.1 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): 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



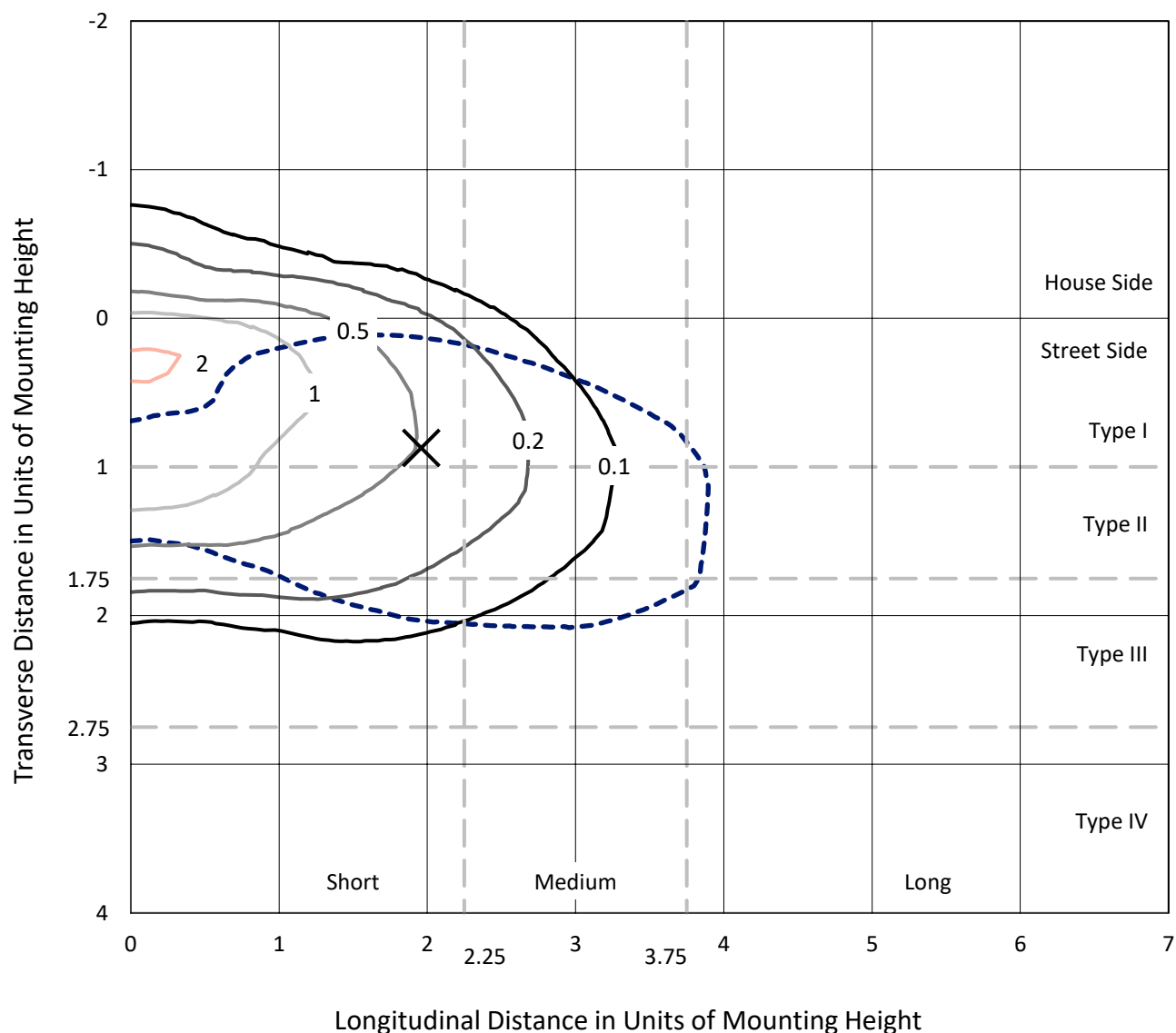
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

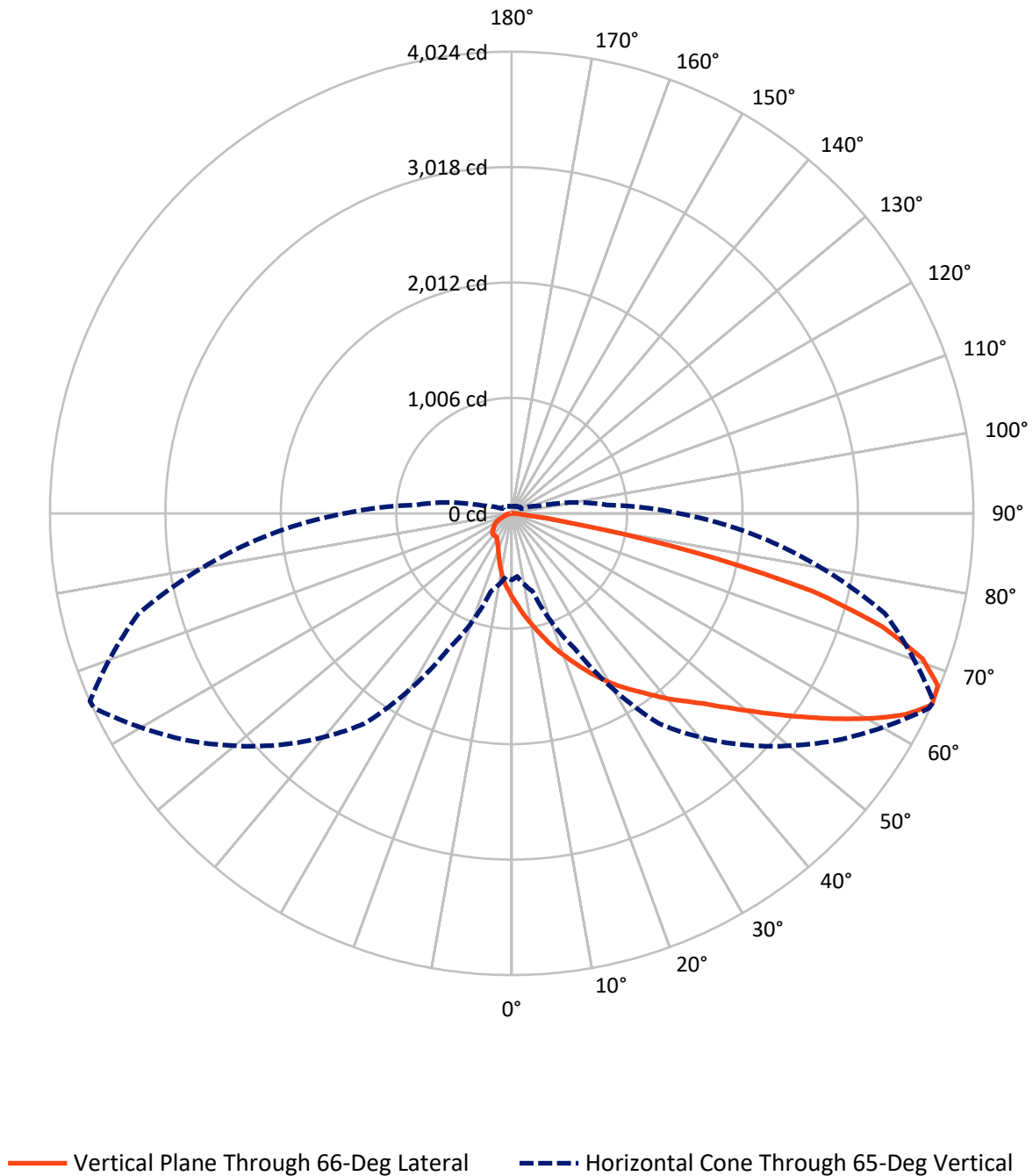


Based on 25 foot mounting height. Maximum calculated value = 2.1 fc

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	585.8	0.0	585.8
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	4952.2	0.0	4952.2
	% Fixture	89.4	0.0	89.4
Total	Lumens	5538.0	0.0	5538.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.3	1.3
10°-20°	235.8	4.3
20°-30°	426.6	7.7
30°-40°	667.1	12.0
40°-50°	1012.0	18.3
50°-60°	1285.7	23.2
60°-70°	1201.4	21.7
70°-80°	597.1	10.8
80°-90°	40.1	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°	5538.0	100.0
0°-180°	5538.0	100.0

Coefficient of Utilization



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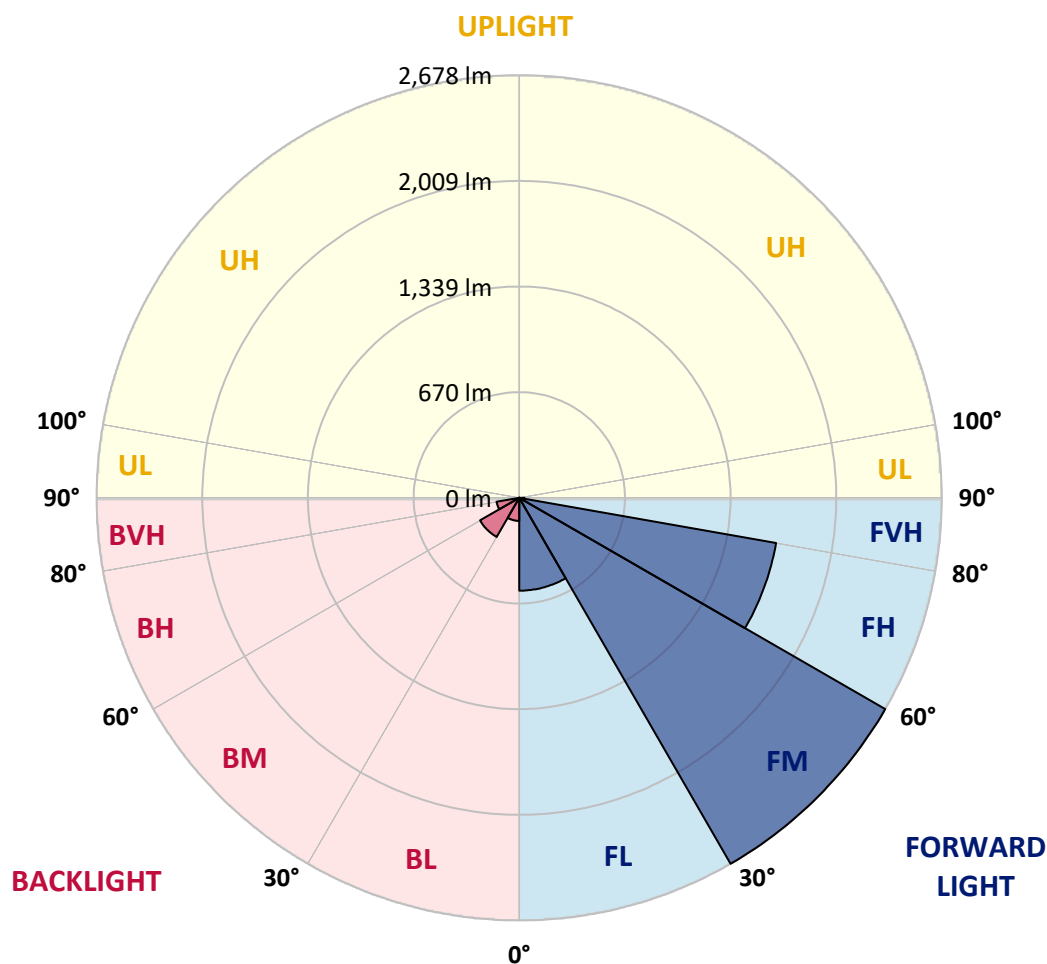
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	588.4	10.6			
FM	(30°-60°)	2678.2	48.4			
FH	(60°-80°)	1652.6	29.8			G1/1800
FVH	(80°-90°)	33.0	0.6			G1/100
BL	(0°-30°)	146.3	2.6	B1/500		
BM	(30°-60°)	286.5	5.2	B1/1000		
BH	(60°-80°)	145.9	2.6	B1/500		G1/500
BVH	(80°-90°)	7.1	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°	732.9	732.9	732.9	732.9	732.9	732.9	732.9	732.9	732.9	732.9	732.9
2.5°	856.0	863.0	866.5	867.7	840.9	829.3	817.7	791.0	785.2	770.1	750.3
5°	1007.0	1016.3	1014.0	1009.4	976.8	939.7	909.5	859.5	851.4	815.4	771.3
7.5°	1155.7	1163.9	1161.5	1144.1	1108.1	1055.8	1005.9	932.7	921.1	863.0	792.2
10°	1280.0	1287.0	1285.8	1268.4	1225.4	1161.5	1101.1	1003.6	989.6	907.2	809.6
12.5°	1382.2	1391.5	1390.3	1378.7	1340.4	1270.7	1202.2	1084.9	1067.4	960.6	834.0
15°	1462.4	1474.0	1474.0	1469.3	1442.6	1384.5	1306.7	1174.3	1153.4	1022.1	864.2
17.5°	1511.1	1520.4	1528.6	1536.7	1518.1	1474.0	1403.1	1263.7	1241.7	1082.5	895.5
20°	1536.7	1546.0	1551.8	1569.2	1572.7	1550.6	1494.9	1352.0	1328.8	1151.1	931.5
22.5°	1578.5	1586.6	1587.8	1602.9	1609.9	1615.7	1580.8	1439.1	1420.5	1226.6	972.2
25°	1648.2	1657.5	1654.0	1661.0	1662.1	1669.1	1665.6	1539.0	1520.4	1312.5	1021.0
27.5°	1737.6	1749.3	1746.9	1740.0	1729.5	1723.7	1738.8	1640.1	1622.7	1398.5	1070.9
30°	1834.1	1848.0	1844.5	1830.6	1802.7	1778.3	1799.2	1735.3	1719.1	1486.8	1126.7
32.5°	1931.6	1947.9	1946.7	1923.5	1875.9	1834.1	1865.4	1824.8	1813.1	1582.0	1187.1
35°	1995.5	2016.4	2014.1	2000.2	1938.6	1902.6	1940.9	1916.5	1908.4	1698.2	1274.2
37.5°	2098.9	2120.9	2101.2	2066.4	1995.5	1976.9	2023.4	2019.9	2014.1	1821.3	1366.0
40°	2349.8	2382.3	2330.0	2187.2	2071.0	2054.7	2120.9	2134.9	2129.1	1943.2	1448.4
42.5°	2612.3	2661.1	2579.8	2382.3	2208.1	2148.8	2227.8	2247.6	2240.6	2047.8	1522.8
45°	2771.4	2792.3	2711.0	2557.7	2450.8	2262.7	2341.6	2374.2	2368.4	2173.2	1618.0
47.5°	2901.5	2893.4	2800.4	2697.1	2716.8	2422.9	2470.6	2534.5	2529.8	2311.4	1722.5
50°	2929.4	2910.8	2873.6	2808.6	2860.8	2585.6	2606.5	2716.8	2712.2	2464.8	1828.2
52.5°	2733.1	2708.7	2809.7	2864.3	2846.9	2704.0	2756.3	2916.6	2914.3	2630.9	1929.3
55°	2242.9	2223.2	2495.0	2777.2	2831.8	2787.7	2922.4	3124.5	3137.3	2807.4	2021.1
57.5°	1764.4	1743.5	2010.6	2558.8	2776.1	2864.3	3116.4	3362.6	3378.9	2999.1	2108.2
60°	1406.6	1375.2	1579.7	2215.0	2671.5	2923.6	3303.4	3624.0	3626.3	3174.5	2161.6
62.5°	955.9	921.1	1147.6	1779.5	2496.1	2932.9	3447.4	3849.3	3858.6	3305.7	2170.9
65°	580.8	551.7	705.0	1299.7	2237.1	2853.9	3449.7	4015.4	4023.5	3366.1	2115.1
67.5°	336.8	325.2	403.1	809.6	1807.3	2641.3	3304.5	3989.8	4004.9	3340.6	1988.5
70°	196.3	195.1	224.2	400.7	1275.4	2219.7	2980.5	3775.0	3797.0	3207.0	1794.6
72.5°	144.0	146.4	158.0	214.9	738.7	1598.3	2524.0	3342.9	3376.6	2945.6	1518.1
75°	113.8	115.0	125.4	146.4	388.0	903.7	1891.0	2683.1	2709.8	2479.9	1185.9
77.5°	84.8	87.1	95.2	103.4	180.0	414.7	1064.0	1652.9	1608.7	1361.3	572.6
80°	61.6	67.4	70.9	74.3	95.2	160.3	319.4	576.1	571.5	594.7	270.6
82.5°	39.5	44.1	47.6	49.9	56.9	76.7	95.2	128.9	139.4	231.1	108.0
85°	17.4	19.7	22.1	26.7	24.4	26.7	39.5	25.6	22.1	34.8	19.7
87.5°	0.0	0.0	3.5	5.8	4.6	2.3	7.0	4.6	3.5	3.5	3.5
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°	732.9	732.9	732.9	732.9	732.9	732.9	732.9	732.9	732.9	732.9	732.9
2.5°	739.9	727.1	700.4	674.8	659.7	640.0	622.6	606.3	605.2	600.5	592.4
5°	749.2	724.8	674.8	627.2	591.2	552.9	520.4	494.8	485.5	478.5	469.3
7.5°	758.5	720.1	645.8	576.1	519.2	465.8	427.4	392.6	382.1	372.9	367.0
10°	762.0	712.0	612.1	519.2	444.9	388.0	347.3	321.7	312.5	307.8	304.3
12.5°	772.4	707.4	580.8	465.8	379.8	327.6	298.5	283.4	279.9	276.4	273.0
15°	786.4	707.4	549.4	413.5	328.7	286.9	269.5	259.0	256.7	255.5	253.2
17.5°	801.5	707.4	519.2	369.4	291.5	260.2	247.4	241.6	240.4	239.3	238.1
20°	822.4	708.5	486.7	331.0	264.8	240.4	230.0	223.0	221.9	220.7	220.7
22.5°	843.3	710.9	455.3	302.0	247.4	225.3	212.6	205.6	203.3	203.3	203.3
25°	870.0	717.8	426.3	277.6	232.3	211.4	195.1	189.3	188.2	188.2	187.0
27.5°	901.3	726.0	400.7	259.0	217.2	195.1	178.9	173.1	170.7	170.7	169.6
30°	935.0	734.1	379.8	245.1	202.1	178.9	163.8	156.8	154.5	155.6	154.5
32.5°	972.2	745.7	363.6	235.8	188.2	164.9	151.0	142.9	141.7	141.7	140.5
35°	1034.9	778.2	361.2	231.1	176.6	154.5	140.5	132.4	131.3	131.3	130.1
37.5°	1102.3	815.4	371.7	228.8	167.3	145.2	132.4	124.3	123.1	123.1	123.1
40°	1159.2	843.3	383.3	228.8	161.5	137.1	125.4	118.5	118.5	118.5	118.5
42.5°	1197.5	845.6	381.0	228.8	156.8	131.3	120.8	113.8	113.8	115.0	113.8
45°	1254.4	857.2	371.7	225.3	153.3	126.6	116.2	110.3	109.2	110.3	110.3
47.5°	1321.8	878.1	362.4	211.4	152.2	122.0	112.7	105.7	104.5	105.7	104.5
50°	1385.7	896.7	357.8	192.8	149.8	117.3	108.0	101.1	99.9	101.1	99.9
52.5°	1439.1	904.8	349.6	180.0	144.0	112.7	103.4	96.4	94.1	95.2	95.2
55°	1482.1	902.5	338.0	169.6	133.6	108.0	97.6	91.8	88.3	88.3	87.1
57.5°	1521.6	903.7	327.6	159.1	122.0	101.1	92.9	86.0	81.3	80.1	79.0
60°	1536.7	897.9	309.0	145.2	110.3	95.2	87.1	79.0	74.3	73.2	72.0
62.5°	1515.8	877.0	284.6	120.8	99.9	88.3	81.3	73.2	68.5	67.4	66.2
65°	1456.6	837.5	247.4	95.2	90.6	80.1	74.3	68.5	62.7	60.4	59.2
67.5°	1355.5	780.5	200.9	76.7	80.1	73.2	69.7	62.7	55.8	53.4	52.3
70°	1211.5	705.0	151.0	65.0	70.9	65.0	62.7	55.8	49.9	47.6	46.5
72.5°	1009.4	583.1	105.7	55.8	61.6	56.9	54.6	49.9	44.1	40.7	40.7
75°	763.1	418.1	69.7	47.6	51.1	48.8	45.3	41.8	38.3	36.0	34.8
77.5°	328.7	162.6	43.0	36.0	41.8	40.7	36.0	33.7	32.5	30.2	30.2
80°	141.7	66.2	26.7	26.7	30.2	29.0	27.9	25.6	25.6	24.4	23.2
82.5°	52.3	26.7	16.3	19.7	22.1	19.7	19.7	19.7	19.7	18.6	18.6
85°	12.8	8.1	8.1	11.6	12.8	11.6	12.8	11.6	11.6	11.6	10.5
87.5°	3.5	3.5	4.6	4.6	4.6	4.6	4.6	3.5	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)