

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: P836670

Luminaire Tested: **ARCH3-60-722-U-T3-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836670
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-60-722-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 505mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6274 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 63.2
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

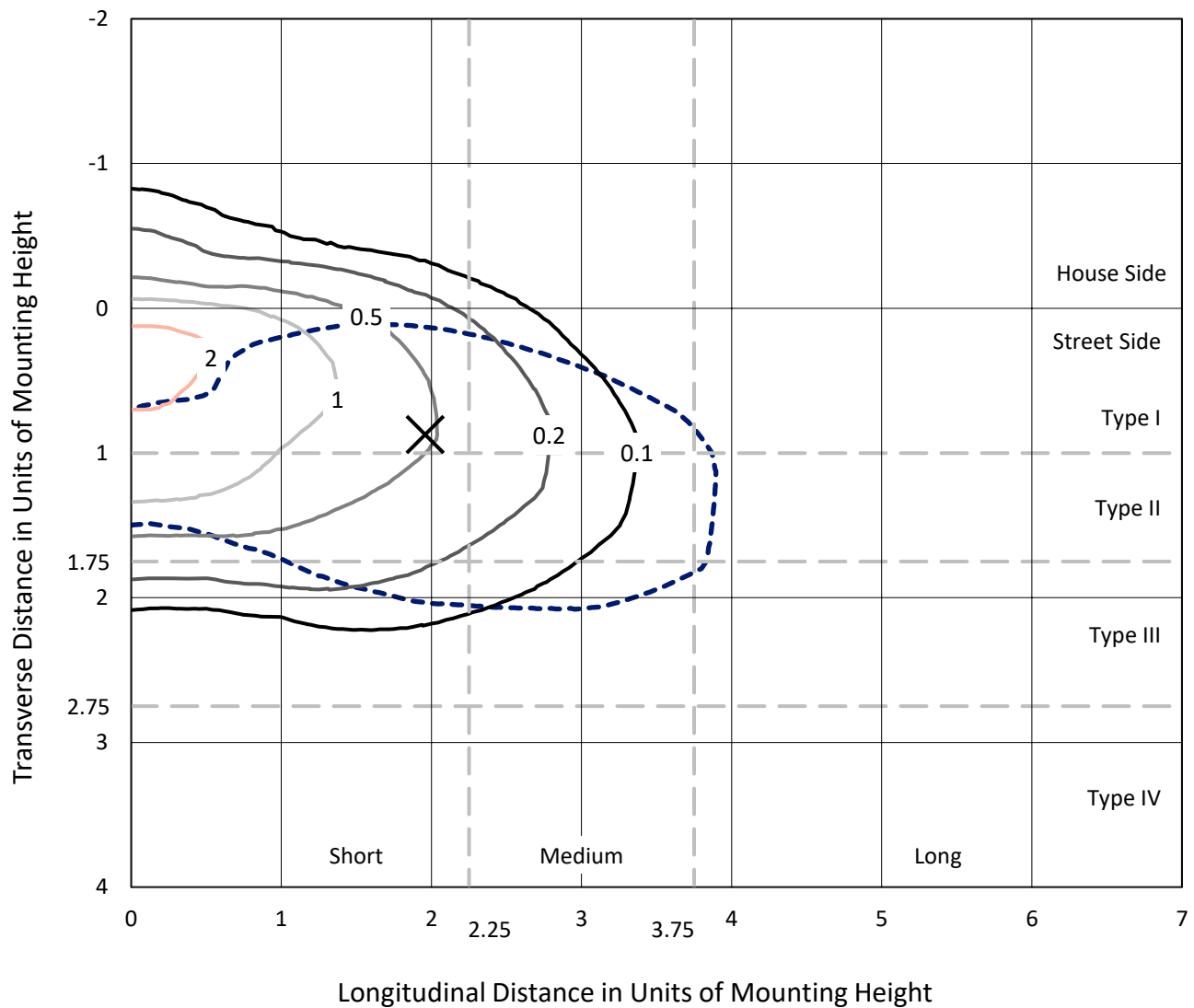


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

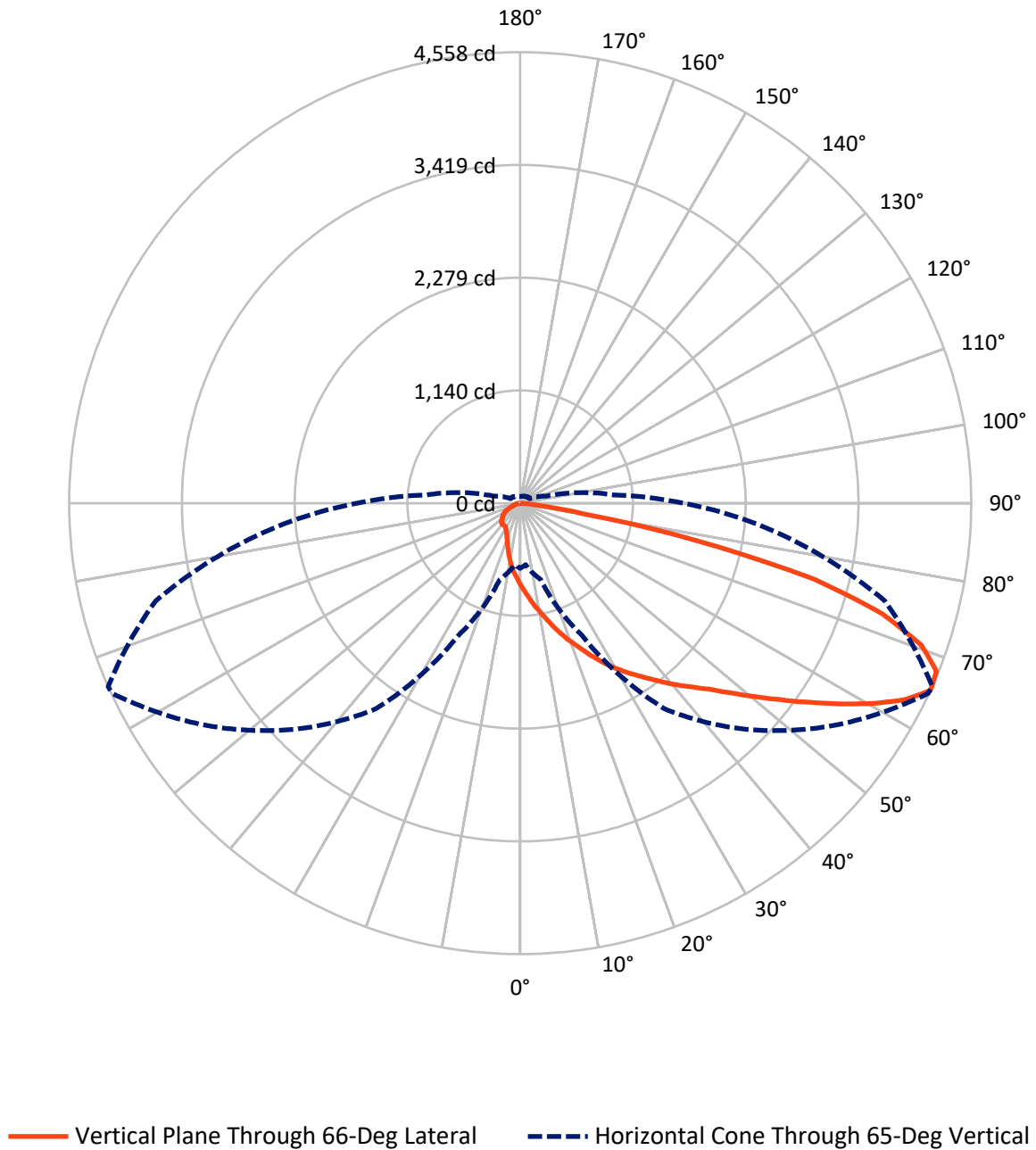


Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	663.6	0.0	663.6
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	5610.4	0.0	5610.4
	% Fixture	89.4	0.0	89.4
Total	Lumens	6274.0	0.0	6274.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.0	1.3
10°-20°	267.1	4.3
20°-30°	483.3	7.7
30°-40°	755.7	12.0
40°-50°	1146.4	18.3
50°-60°	1456.6	23.2
60°-70°	1361.0	21.7
70°-80°	676.4	10.8
80°-90°	45.5	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°	6274.0	100.0
0°-180°	6274.0	100.0

Coefficient of Utilization



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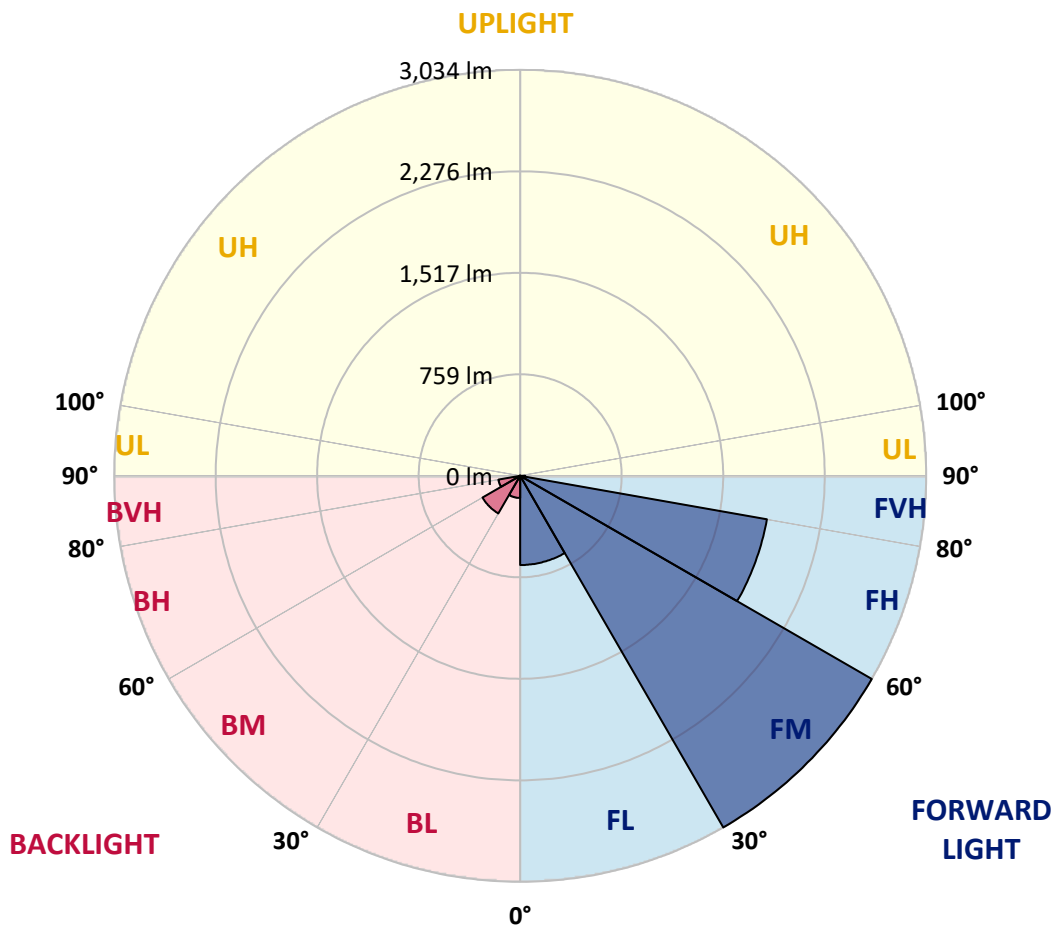
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	666.6	10.6			
FM	(30°-60°)	3034.2	48.4			
FH	(60°-80°)	1872.2	29.8			G2/5000
FVH	(80°-90°)	37.4	0.6			G1/100
BL	(0°-30°)	165.7	2.6	B1/500		
BM	(30°-60°)	324.6	5.2	B1/1000		
BH	(60°-80°)	165.3	2.6	B1/500		G1/500
BVH	(80°-90°)	8.1	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-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	830.3	830.3	830.3	830.3	830.3	830.3	830.3	830.3	830.3	830.3	830.3
2.5°	969.8	977.7	981.7	983.0	952.7	939.5	926.4	896.1	889.5	872.4	850.1
5°	1140.9	1151.4	1148.8	1143.5	1106.7	1064.6	1030.3	973.8	964.6	923.8	873.8
7.5°	1309.3	1318.5	1315.9	1296.2	1255.4	1196.1	1139.6	1056.7	1043.5	977.7	897.4
10°	1450.1	1458.0	1456.7	1437.0	1388.3	1315.9	1247.5	1136.9	1121.1	1027.7	917.2
12.5°	1565.9	1576.4	1575.1	1562.0	1518.5	1439.6	1362.0	1229.0	1209.3	1088.2	944.8
15°	1656.7	1669.9	1669.9	1664.6	1634.3	1568.5	1480.4	1330.4	1306.7	1158.0	979.0
17.5°	1712.0	1722.5	1731.7	1740.9	1719.9	1669.9	1589.6	1431.7	1406.7	1226.4	1014.6
20°	1740.9	1751.5	1758.0	1777.8	1781.7	1756.7	1693.6	1531.7	1505.4	1304.1	1055.3
22.5°	1788.3	1797.5	1798.8	1815.9	1823.8	1830.4	1790.9	1630.4	1609.3	1389.6	1101.4
25°	1867.3	1877.8	1873.8	1881.7	1883.0	1890.9	1887.0	1743.6	1722.5	1487.0	1156.7
27.5°	1968.6	1981.7	1979.1	1971.2	1959.4	1952.8	1969.9	1858.0	1838.3	1584.3	1213.3
30°	2077.8	2093.6	2089.6	2073.8	2042.3	2014.6	2038.3	1965.9	1947.5	1684.3	1276.4
32.5°	2188.3	2206.8	2205.4	2179.1	2125.2	2077.8	2113.3	2067.3	2054.1	1792.2	1344.8
35°	2260.7	2284.4	2281.8	2266.0	2196.2	2155.4	2198.9	2171.2	2162.0	1923.8	1443.5
37.5°	2377.8	2402.8	2380.5	2341.0	2260.7	2239.7	2292.3	2288.3	2281.8	2063.3	1547.5
40°	2662.1	2698.9	2639.7	2477.8	2346.2	2327.8	2402.8	2418.6	2412.0	2201.5	1640.9
42.5°	2959.4	3014.7	2922.6	2698.9	2501.5	2434.4	2523.9	2546.3	2538.4	2319.9	1725.1
45°	3139.7	3163.4	3071.3	2897.6	2776.5	2563.4	2652.8	2689.7	2683.1	2462.0	1833.0
47.5°	3287.1	3277.9	3172.6	3055.5	3077.9	2745.0	2798.9	2871.3	2866.0	2618.6	1951.5
50°	3318.7	3297.6	3255.5	3181.8	3241.0	2929.2	2952.9	3077.9	3072.6	2792.3	2071.2
52.5°	3096.3	3068.7	3183.1	3245.0	3225.3	3063.4	3122.6	3304.2	3301.6	2980.5	2185.7
55°	2541.0	2518.6	2826.5	3146.3	3208.2	3158.1	3310.8	3539.8	3554.2	3180.5	2289.7
57.5°	1998.8	1975.2	2277.8	2898.9	3145.0	3245.0	3530.5	3809.5	3827.9	3397.6	2388.3
60°	1593.5	1558.0	1789.6	2509.4	3026.6	3312.1	3742.4	4105.6	4108.2	3596.3	2448.9
62.5°	1083.0	1043.5	1300.1	2016.0	2827.9	3322.6	3905.6	4360.9	4371.4	3745.0	2459.4
65°	657.9	625.0	798.7	1472.5	2534.4	3233.2	3908.2	4549.0	4558.3	3813.5	2396.2
67.5°	381.6	368.5	456.6	917.2	2047.5	2992.3	3743.7	4520.1	4537.2	3784.5	2252.8
70°	222.4	221.1	254.0	454.0	1444.9	2514.7	3376.6	4276.7	4301.7	3633.2	2033.1
72.5°	163.2	165.8	179.0	243.4	836.9	1810.7	2859.4	3787.1	3825.3	3337.1	1719.9
75°	129.0	130.3	142.1	165.8	439.5	1023.8	2142.3	3039.7	3070.0	2809.4	1343.5
77.5°	96.1	98.7	107.9	117.1	204.0	469.8	1205.4	1872.5	1822.5	1542.2	648.7
80°	69.7	76.3	80.3	84.2	107.9	181.6	361.9	652.7	647.4	673.7	306.6
82.5°	44.7	50.0	54.0	56.6	64.5	86.8	107.9	146.1	157.9	261.9	122.4
85°	19.7	22.4	25.0	30.3	27.6	30.3	44.7	28.9	25.0	39.5	22.4
87.5°	0.0	0.0	3.9	6.6	5.3	2.6	7.9	5.3	3.9	3.9	3.9
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°	830.3	830.3	830.3	830.3	830.3	830.3	830.3	830.3	830.3	830.3	830.3
2.5°	838.2	823.8	793.5	764.5	747.4	725.1	705.3	686.9	685.6	680.3	671.1
5°	848.8	821.1	764.5	710.6	669.8	626.4	589.5	560.6	550.0	542.1	531.6
7.5°	859.3	815.9	731.6	652.7	588.2	527.7	484.2	444.8	432.9	422.4	415.8
10°	863.2	806.6	693.5	588.2	504.0	439.5	393.5	364.5	354.0	348.7	344.8
12.5°	875.1	801.4	657.9	527.7	430.3	371.1	338.2	321.1	317.1	313.2	309.2
15°	890.9	801.4	622.4	468.5	372.4	325.0	305.3	293.4	290.8	289.5	286.9
17.5°	908.0	801.4	588.2	418.5	330.3	294.8	280.3	273.7	272.4	271.1	269.8
20°	931.7	802.7	551.4	375.0	300.0	272.4	260.5	252.7	251.3	250.0	250.0
22.5°	955.3	805.3	515.8	342.1	280.3	255.3	240.8	232.9	230.3	230.3	230.3
25°	985.6	813.2	482.9	314.5	263.2	239.5	221.1	214.5	213.2	213.2	211.9
27.5°	1021.1	822.4	454.0	293.4	246.1	221.1	202.6	196.1	193.4	193.4	192.1
30°	1059.3	831.6	430.3	277.7	229.0	202.6	185.5	177.6	175.0	176.3	175.0
32.5°	1101.4	844.8	411.9	267.1	213.2	186.9	171.1	161.9	160.5	160.5	159.2
35°	1172.5	881.6	409.2	261.9	200.0	175.0	159.2	150.0	148.7	148.7	147.4
37.5°	1248.8	923.8	421.1	259.2	189.5	164.5	150.0	140.8	139.5	139.5	139.5
40°	1313.3	955.3	434.2	259.2	182.9	155.3	142.1	134.2	134.2	134.2	134.2
42.5°	1356.7	958.0	431.6	259.2	177.6	148.7	136.9	129.0	129.0	130.3	129.0
45°	1421.2	971.1	421.1	255.3	173.7	143.4	131.6	125.0	123.7	125.0	125.0
47.5°	1497.5	994.8	410.6	239.5	172.4	138.2	127.6	119.7	118.4	119.7	118.4
50°	1569.9	1015.9	405.3	218.4	169.8	132.9	122.4	114.5	113.2	114.5	113.2
52.5°	1630.4	1025.1	396.1	204.0	163.2	127.6	117.1	109.2	106.6	107.9	107.9
55°	1679.1	1022.5	382.9	192.1	151.3	122.4	110.5	104.0	100.0	100.0	98.7
57.5°	1723.8	1023.8	371.1	180.3	138.2	114.5	105.3	97.4	92.1	90.8	89.5
60°	1740.9	1017.2	350.0	164.5	125.0	107.9	98.7	89.5	84.2	82.9	81.6
62.5°	1717.2	993.5	322.4	136.9	113.2	100.0	92.1	82.9	77.6	76.3	75.0
65°	1650.1	948.8	280.3	107.9	102.6	90.8	84.2	77.6	71.1	68.4	67.1
67.5°	1535.6	884.3	227.6	86.8	90.8	82.9	79.0	71.1	63.2	60.5	59.2
70°	1372.5	798.7	171.1	73.7	80.3	73.7	71.1	63.2	56.6	54.0	52.6
72.5°	1143.5	660.6	119.7	63.2	69.7	64.5	61.8	56.6	50.0	46.1	46.1
75°	864.5	473.7	79.0	54.0	57.9	55.3	51.3	47.4	43.4	40.8	39.5
77.5°	372.4	184.2	48.7	40.8	47.4	46.1	40.8	38.2	36.8	34.2	34.2
80°	160.5	75.0	30.3	30.3	34.2	32.9	31.6	28.9	28.9	27.6	26.3
82.5°	59.2	30.3	18.4	22.4	25.0	22.4	22.4	22.4	22.4	21.1	21.1
85°	14.5	9.2	9.2	13.2	14.5	13.2	14.5	13.2	13.2	13.2	11.8
87.5°	3.9	3.9	5.3	5.3	5.3	5.3	5.3	3.9	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)