

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: P842663

Luminaire Tested: **ARCH4-80-722-U-T4W-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842663
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-80-722-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 685mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

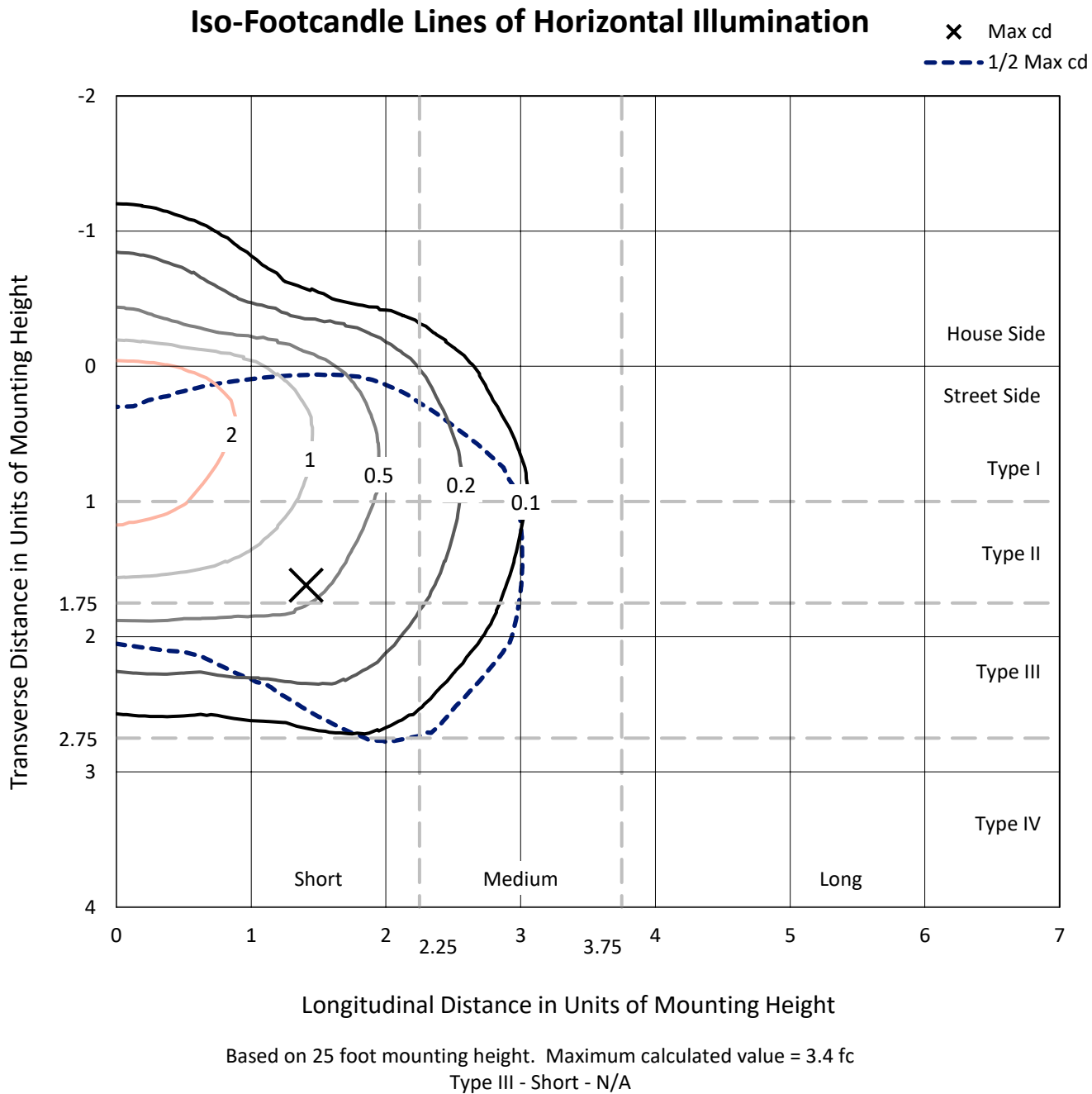
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8732 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 83.4
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

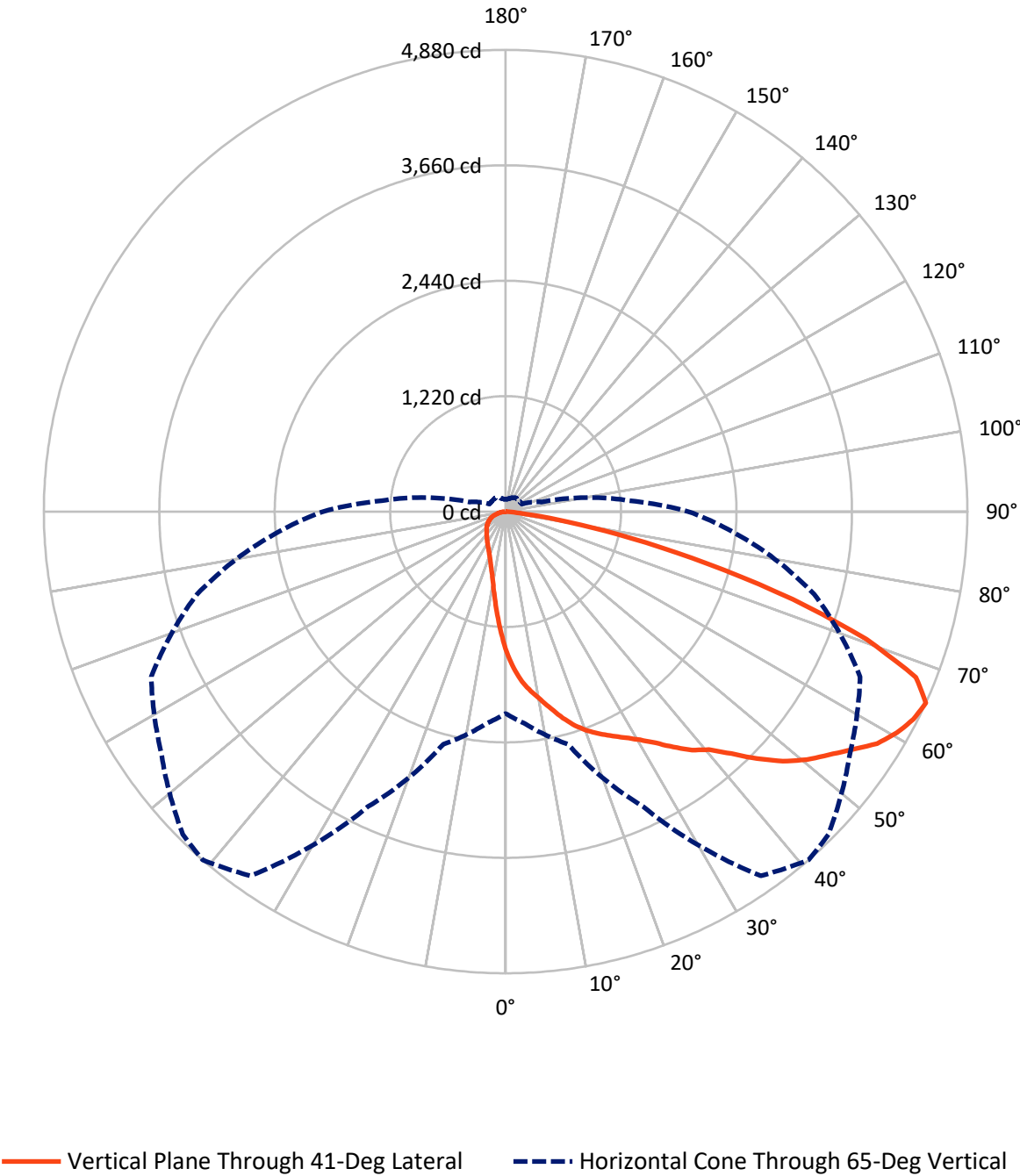


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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1121.1	0.0	1121.1
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	7610.9	0.0	7610.9
	% Fixture	87.2	0.0	87.2
Total	Lumens	8732.0	0.0	8732.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.6	1.6
10°-20°	415.7	4.8
20°-30°	715.1	8.2
30°-40°	1084.6	12.4
40°-50°	1589.0	18.2
50°-60°	2006.6	23.0
60°-70°	1881.5	21.5
70°-80°	838.6	9.6
80°-90°	62.1	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°	8732.0	100.0
0°-180°	8732.0	100.0

Coefficient of Utilization



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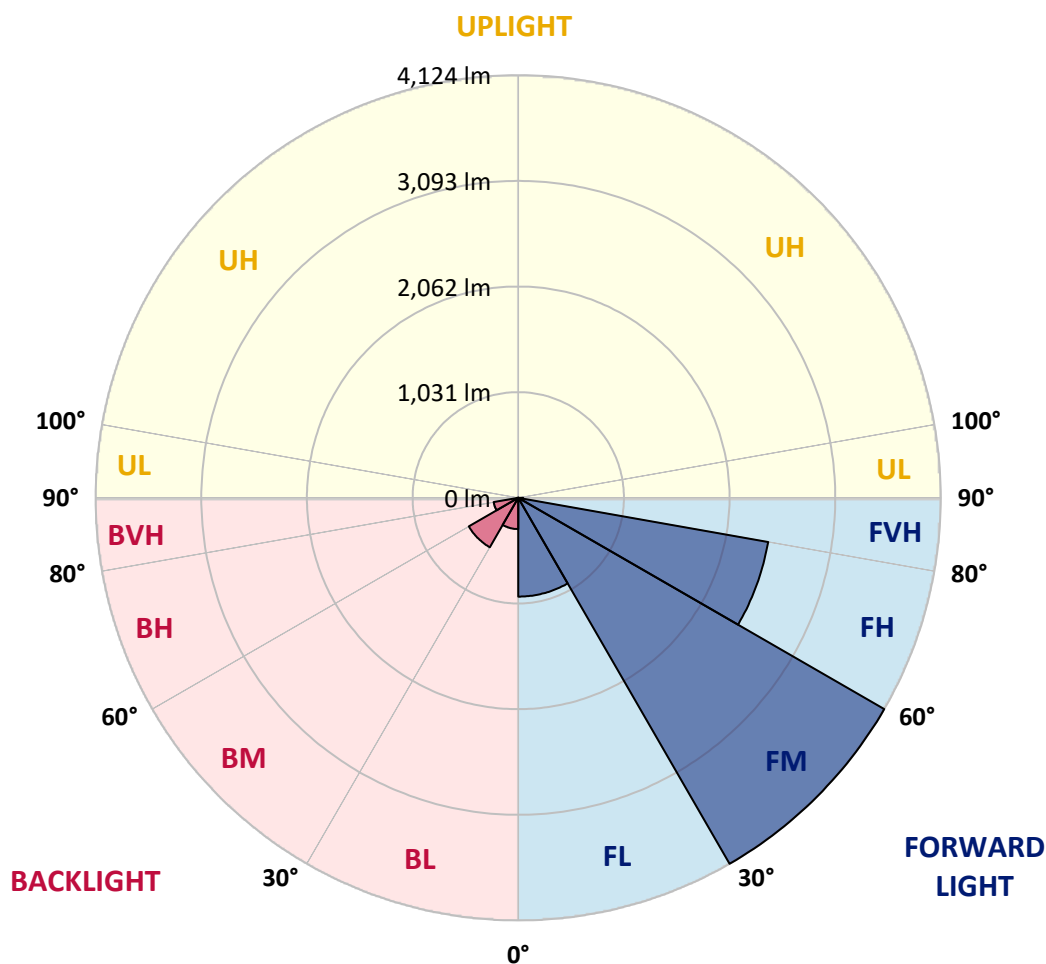
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	964.3	11.0			
FM	(30°-60°)	4123.6	47.2			
FH	(60°-80°)	2476.6	28.4			G2/5000
FVH	(80°-90°)	46.4	0.5			G1/100
BL	(0°-30°)	305.1	3.5	B1/500		
BM	(30°-60°)	556.7	6.4	B1/1000		
BH	(60°-80°)	243.5	2.8	B1/500		G1/500
BVH	(80°-90°)	15.7	0.2			G1/100
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°	41°	45°	55°	65°	75°	85°
0°	1487.9	1487.9	1487.9	1487.9	1487.9	1487.9	1487.9	1487.9	1487.9	1487.9	1487.9
2.5°	1716.2	1710.7	1707.0	1686.8	1686.8	1659.1	1661.0	1635.2	1603.9	1554.2	1500.8
5°	1878.3	1870.9	1861.7	1841.4	1834.1	1806.5	1802.8	1765.9	1712.5	1626.0	1530.2
7.5°	2020.1	2012.7	1999.8	1970.3	1950.1	1916.9	1907.7	1859.9	1800.9	1694.1	1559.7
10°	2149.0	2143.4	2126.9	2090.0	2062.4	2021.9	2005.3	1940.9	1867.2	1749.4	1583.6
12.5°	2279.7	2272.3	2250.2	2218.9	2185.8	2137.9	2117.7	2034.8	1940.9	1810.1	1618.6
15°	2401.2	2390.2	2373.6	2340.5	2311.0	2265.0	2242.9	2145.3	2031.1	1878.3	1664.7
17.5°	2480.4	2471.2	2456.5	2438.1	2414.1	2379.1	2357.0	2261.3	2121.3	1944.6	1712.5
20°	2528.3	2524.6	2519.1	2508.0	2497.0	2473.1	2456.5	2366.3	2218.9	2009.0	1758.6
22.5°	2565.1	2561.4	2559.6	2559.6	2561.4	2552.2	2541.2	2463.9	2312.9	2077.1	1800.9
25°	2622.2	2620.4	2616.7	2613.0	2625.9	2627.7	2624.1	2570.7	2430.7	2167.4	1854.3
27.5°	2701.4	2695.9	2688.5	2684.8	2697.7	2706.9	2714.3	2677.5	2555.9	2259.5	1915.1
30°	2822.9	2806.4	2787.9	2775.1	2784.3	2799.0	2815.6	2793.5	2684.8	2373.6	1977.7
32.5°	2966.6	2946.3	2904.0	2880.0	2904.0	2915.0	2927.9	2916.8	2819.3	2497.0	2040.3
35°	3141.5	3117.6	3073.4	3038.4	3080.7	3056.8	3051.3	3040.2	2946.3	2618.5	2110.3
37.5°	3432.5	3397.5	3327.5	3250.1	3250.1	3198.6	3178.3	3145.2	3060.5	2727.2	2178.4
40°	3769.4	3723.4	3633.2	3519.0	3414.0	3307.2	3294.3	3270.4	3194.9	2852.4	2255.8
42.5°	4139.6	4051.2	3926.0	3787.9	3618.4	3496.9	3467.4	3399.3	3325.6	2979.5	2333.1
45°	4550.2	4366.1	4183.8	4113.8	3833.9	3723.4	3668.2	3544.8	3461.9	3112.0	2414.1
47.5°	4616.5	4472.9	4351.3	4340.3	4034.6	3942.5	3879.9	3703.1	3609.2	3253.8	2498.8
50°	4579.7	4493.1	4506.0	4461.8	4181.9	4121.2	4073.3	3872.6	3754.7	3390.1	2576.2
52.5°	4425.0	4472.9	4546.5	4465.5	4321.9	4272.2	4248.2	4054.9	3891.0	3515.3	2646.2
55°	4240.8	4274.0	4432.4	4531.8	4483.9	4439.7	4417.6	4266.6	4025.4	3620.3	2710.6
57.5°	3972.0	3957.3	4132.2	4520.7	4653.3	4627.6	4603.6	4474.7	4150.6	3695.8	2751.1
60°	3568.7	3537.4	3758.4	4299.8	4708.6	4749.1	4738.0	4612.8	4246.4	3693.9	2734.5
62.5°	2870.8	2948.2	3253.8	3938.8	4732.5	4835.6	4815.4	4623.9	4277.7	3587.1	2629.6
65°	2134.2	2244.7	2544.9	3441.7	4699.4	4879.8	4824.6	4443.4	4132.2	3375.4	2399.4
67.5°	1537.6	1635.2	1854.3	2832.1	4380.8	4677.3	4612.8	4148.8	3797.1	3075.2	2080.8
70°	1051.5	1121.4	1270.6	2062.4	3740.0	4043.8	4003.3	3708.7	3268.6	2718.0	1690.4
72.5°	742.1	771.6	867.3	1360.8	2841.3	3172.8	3124.9	3051.3	2625.9	2259.5	1314.8
75°	556.1	574.5	626.1	880.2	1916.9	2198.7	2154.5	2196.8	1961.1	1710.7	957.6
77.5°	209.9	228.3	355.4	561.6	1134.3	1349.8	1305.6	1331.4	1090.1	863.6	476.9
80°	57.1	60.8	117.9	267.0	515.6	672.1	611.4	524.8	405.1	397.8	252.3
82.5°	23.9	27.6	53.4	143.6	184.1	184.1	154.7	191.5	154.7	186.0	121.5
85°	9.2	11.0	12.9	36.8	23.9	25.8	27.6	36.8	31.3	38.7	27.6
87.5°	0.0	0.0	0.0	1.8	1.8	3.7	1.8	3.7	5.5	5.5	5.5
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°	1487.9	1487.9	1487.9	1487.9	1487.9	1487.9	1487.9	1487.9	1487.9	1487.9	1487.9
2.5°	1478.7	1458.4	1429.0	1381.1	1331.4	1303.7	1268.8	1263.2	1226.4	1222.7	1208.0
5°	1487.9	1445.5	1370.0	1278.0	1187.7	1117.8	1066.2	1038.6	985.2	985.2	970.4
7.5°	1495.3	1429.0	1307.4	1171.2	1047.8	953.9	883.9	854.4	806.6	802.9	791.8
10°	1497.1	1408.7	1239.3	1062.5	911.5	815.8	747.6	714.5	672.1	668.4	661.1
12.5°	1511.8	1397.7	1178.5	968.6	813.9	710.8	644.5	616.9	583.7	580.1	572.7
15°	1535.8	1397.7	1127.0	889.4	727.4	631.6	574.5	548.8	524.8	521.1	517.4
17.5°	1559.7	1394.0	1075.4	815.8	655.6	569.0	519.3	499.0	480.6	478.8	475.1
20°	1581.8	1392.1	1023.8	753.2	600.3	517.4	478.8	460.4	445.6	445.6	443.8
22.5°	1603.9	1388.4	974.1	694.2	552.4	478.8	445.6	425.4	414.3	414.3	412.5
25°	1637.0	1388.4	928.1	644.5	513.8	449.3	416.2	401.4	392.2	390.4	390.4
27.5°	1675.7	1399.5	887.6	600.3	480.6	419.8	394.1	379.3	368.3	364.6	366.4
30°	1718.1	1408.7	850.7	561.6	449.3	397.8	370.1	355.4	344.4	340.7	342.5
32.5°	1760.4	1419.8	817.6	526.7	418.0	377.5	349.9	333.3	322.3	320.4	320.4
35°	1806.5	1430.8	784.5	497.2	392.2	357.2	331.5	313.0	305.7	302.0	303.8
37.5°	1852.5	1449.2	753.2	469.6	373.8	338.8	314.9	296.5	290.9	289.1	289.1
40°	1907.7	1476.8	740.3	451.2	357.2	322.3	302.0	283.6	278.1	278.1	278.1
42.5°	1953.8	1498.9	729.2	430.9	344.4	307.5	289.1	274.4	270.7	268.9	270.7
45°	1999.8	1519.2	714.5	412.5	327.8	292.8	278.1	263.3	259.6	259.6	259.6
47.5°	2045.8	1530.2	694.2	394.1	313.0	279.9	267.0	254.1	250.4	250.4	250.4
50°	2082.7	1539.4	664.8	373.8	296.5	268.9	256.0	243.1	239.4	239.4	239.4
52.5°	2119.5	1541.3	633.5	349.9	279.9	256.0	244.9	232.0	228.3	226.5	226.5
55°	2152.6	1539.4	596.6	322.3	261.5	241.2	232.0	221.0	213.6	206.2	209.9
57.5°	2176.6	1537.6	554.3	294.6	243.1	226.5	222.8	208.1	193.4	174.9	178.6
60°	2167.4	1517.4	508.2	259.6	222.8	211.8	211.8	191.5	165.7	156.5	158.4
62.5°	2108.5	1460.3	460.4	222.8	202.6	197.0	195.2	173.1	152.8	143.6	145.5
65°	1931.7	1316.6	390.4	189.7	182.3	180.5	180.5	160.2	141.8	130.7	132.6
67.5°	1662.8	1104.9	318.6	160.2	162.0	165.7	165.7	147.3	128.9	117.9	119.7
70°	1333.2	863.6	254.1	138.1	139.9	145.5	149.2	132.6	116.0	105.0	105.0
72.5°	1003.6	655.6	204.4	116.0	125.2	125.2	130.7	117.9	101.3	90.2	92.1
75°	727.4	469.6	162.0	97.6	108.6	106.8	106.8	99.4	86.5	79.2	79.2
77.5°	344.4	246.8	128.9	70.0	84.7	82.9	84.7	79.2	73.7	66.3	68.1
80°	169.4	121.5	82.9	49.7	58.9	60.8	66.3	62.6	60.8	55.2	55.2
82.5°	81.0	47.9	38.7	35.0	40.5	42.4	46.0	46.0	47.9	44.2	44.2
85°	22.1	12.9	16.6	22.1	25.8	27.6	31.3	33.1	33.1	31.3	33.1
87.5°	5.5	5.5	7.4	11.0	12.9	14.7	16.6	16.6	7.4	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)