

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: P836902

Luminaire Tested: **ARCH3-90-730-U-T2U-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836902
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-90-730-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 735mA LIGHTSQUARE WITH 40 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10051 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

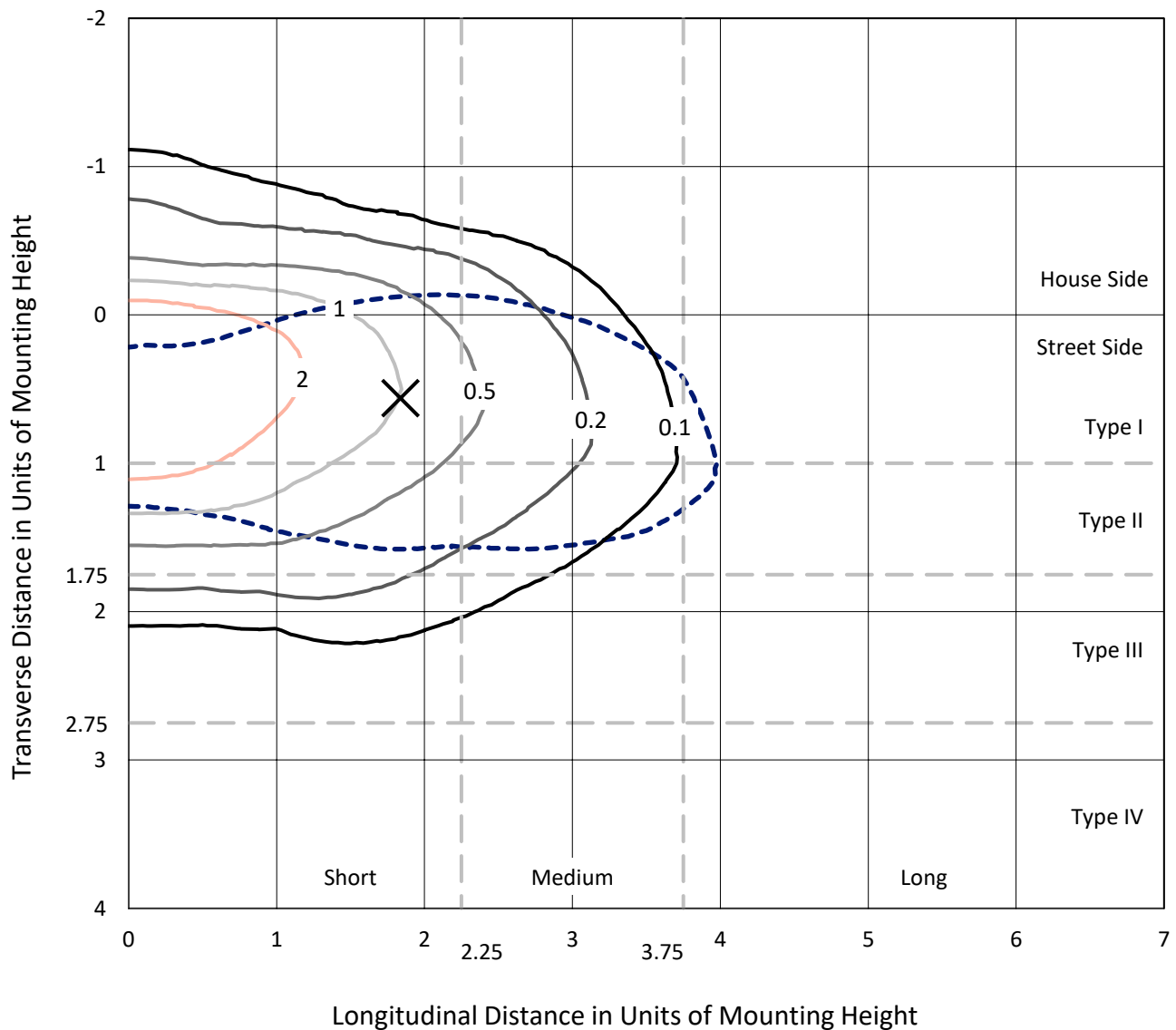
Input Watts (W): 93.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

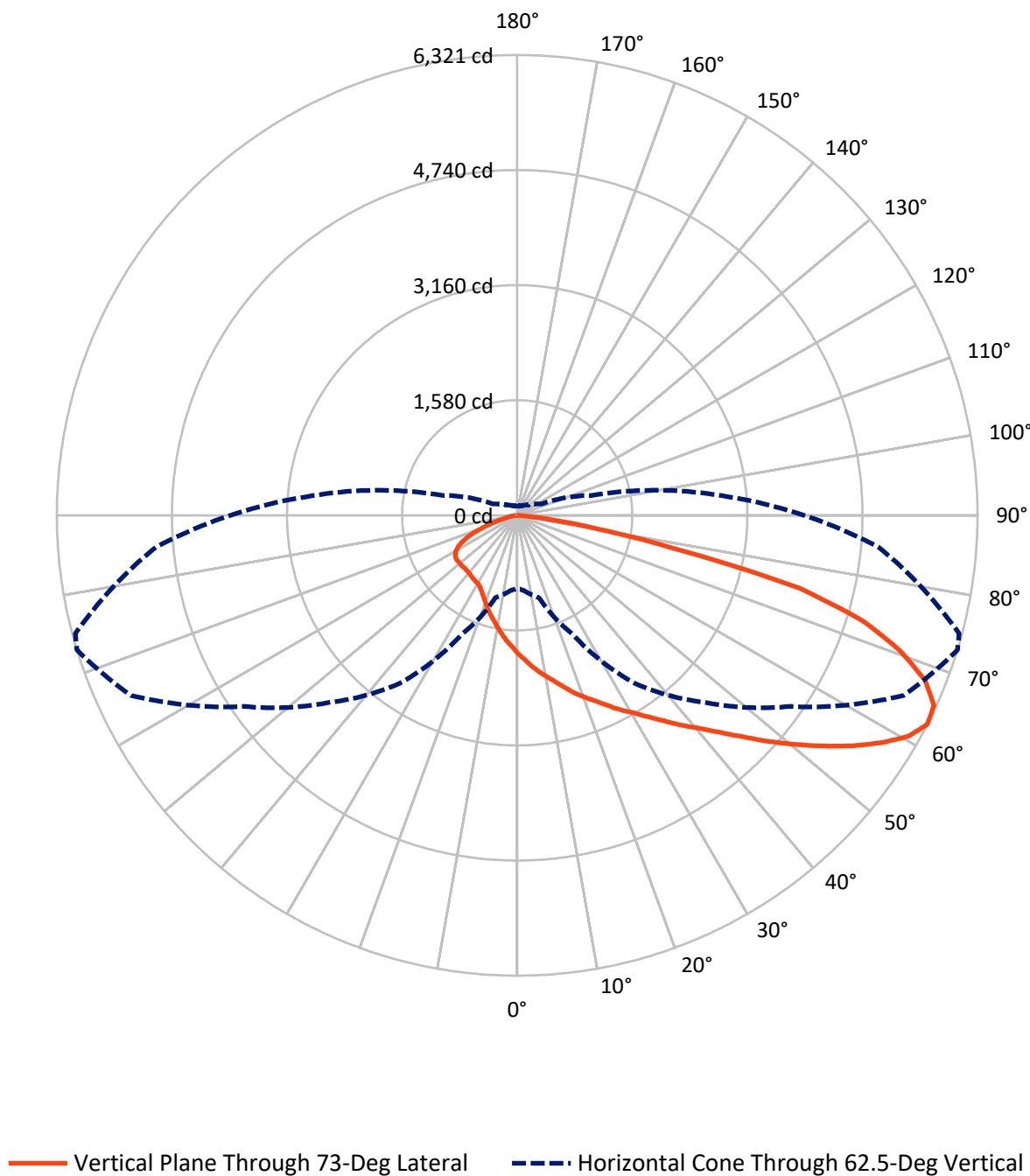
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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	1558.0	0.0	1558.0
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	8493.0	0.0	8493.0
	% Fixture	84.5	0.0	84.5
Total	Lumens	10051.0	0.0	10051.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.9	1.8
10°-20°	554.8	5.5
20°-30°	923.5	9.2
30°-40°	1393.4	13.9
40°-50°	1947.6	19.4
50°-60°	2151.2	21.4
60°-70°	1874.0	18.6
70°-80°	946.6	9.4
80°-90°	76.0	0.8
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°	10051.0	100.0
0°-180°	10051.0	100.0

Coefficient of Utilization



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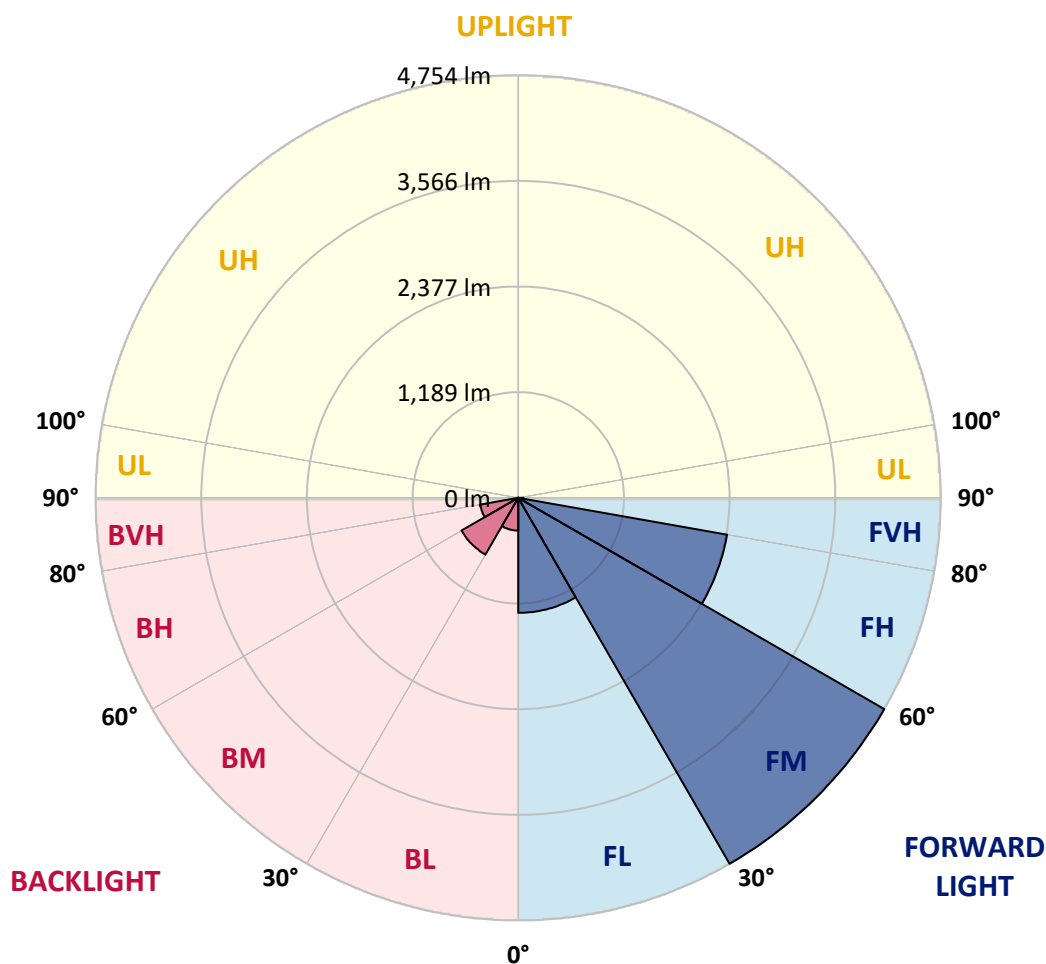
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1293.9	12.9			
FM	(30°-60°)	4754.5	47.3			
FH	(60°-80°)	2385.8	23.7			G2/5000
FVH	(80°-90°)	58.8	0.6			G1/100
BL	(0°-30°)	368.3	3.7	B1/500		
BM	(30°-60°)	737.7	7.3	B1/1000		
BH	(60°-80°)	434.9	4.3	B1/500		G1/500
BVH	(80°-90°)	17.2	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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	1903.2	1903.2	1903.2	1903.2	1903.2	1903.2	1903.2	1903.2	1903.2	1903.2	1903.2
2.5°	2166.0	2190.1	2176.9	2185.7	2141.9	2113.4	2080.6	2017.1	1982.0	1977.6	1936.0
5°	2483.5	2509.8	2487.9	2481.4	2404.7	2339.0	2264.5	2152.8	2078.4	2065.2	1973.3
7.5°	2801.1	2825.2	2798.9	2779.2	2676.3	2560.2	2450.7	2286.4	2170.4	2148.5	2003.9
10°	3024.5	3046.4	3026.7	3007.0	2899.7	2781.4	2625.9	2411.3	2253.6	2218.5	2023.6
12.5°	3193.1	3206.3	3197.5	3180.0	3079.3	2952.2	2803.3	2551.4	2347.8	2304.0	2054.3
15°	3331.1	3353.0	3342.1	3328.9	3232.6	3105.5	2963.2	2698.2	2457.3	2402.5	2100.3
17.5°	3423.1	3438.4	3440.6	3440.6	3355.2	3230.4	3092.4	2831.8	2566.8	2496.7	2144.1
20°	3464.7	3482.2	3493.2	3510.7	3440.6	3333.3	3193.1	2945.7	2669.7	2590.9	2185.7
22.5°	3484.4	3499.7	3528.2	3567.6	3510.7	3420.9	3291.7	3050.8	2772.6	2689.4	2233.9
25°	3499.7	3519.5	3561.1	3635.5	3596.1	3519.5	3407.8	3171.2	2895.3	2809.9	2304.0
27.5°	3541.4	3565.4	3604.9	3694.7	3646.5	3609.2	3530.4	3300.4	3024.5	2936.9	2389.4
30°	3685.9	3705.6	3703.4	3760.4	3701.2	3690.3	3635.5	3425.3	3149.3	3061.7	2490.1
32.5°	3948.7	3968.4	3920.2	3898.3	3769.1	3771.3	3749.4	3558.9	3298.3	3208.5	2606.2
35°	4231.2	4253.1	4189.6	4152.4	3935.6	3872.1	3883.0	3725.3	3464.7	3374.9	2750.7
37.5°	4483.1	4509.4	4454.6	4399.9	4180.9	4034.1	4031.9	3911.5	3655.2	3563.3	2910.6
40°	4621.1	4651.7	4684.6	4653.9	4424.0	4261.9	4191.8	4102.0	3843.6	3749.4	3083.6
42.5°	4686.8	4772.2	4831.3	4811.6	4623.3	4459.0	4375.8	4301.3	4073.5	3981.6	3289.5
45°	4502.8	4505.0	4629.8	4737.1	4702.1	4592.6	4577.3	4524.7	4336.4	4248.8	3521.6
47.5°	4272.8	4255.3	4342.9	4533.5	4632.0	4660.5	4750.3	4772.2	4636.4	4548.8	3758.2
50°	3720.9	3731.9	4016.6	4290.4	4483.1	4667.1	4872.9	5026.2	4945.2	4862.0	4007.8
52.5°	3026.7	3053.0	3379.3	3981.6	4286.0	4601.4	4945.2	5280.3	5260.6	5181.7	4257.5
55°	2426.6	2468.2	2814.3	3466.9	4034.1	4454.6	4975.9	5512.4	5586.9	5514.6	4502.8
57.5°	1855.0	1898.8	2190.1	2860.2	3712.2	4215.9	4954.0	5716.1	5891.3	5845.3	4728.4
60°	1397.3	1441.1	1627.2	2319.3	3309.2	3948.7	4844.5	5849.7	6165.1	6116.9	4892.6
62.5°	1000.9	1035.9	1173.9	1804.6	2818.6	3631.2	4575.1	5851.9	6320.6	6281.1	4971.5
65°	720.5	720.5	832.2	1287.8	2358.7	3250.1	4167.7	5582.5	6287.7	6276.8	4916.7
67.5°	519.0	523.4	613.2	900.1	1881.3	2788.0	3639.9	5102.9	6033.7	6088.4	4719.6
70°	367.9	378.9	420.5	628.6	1421.4	2201.0	3074.9	4474.3	5575.9	5672.3	4338.5
72.5°	284.7	291.3	319.8	438.0	1038.1	1636.0	2450.7	3773.5	4964.9	5074.4	3819.5
75°	219.0	225.6	247.5	321.9	744.6	1147.6	1741.1	2928.1	4003.5	4198.4	3068.3
77.5°	159.9	168.6	184.0	234.3	433.6	729.3	1055.6	1646.9	2209.8	2301.8	1607.5
80°	74.5	85.4	107.3	151.1	234.3	343.8	374.5	635.1	1062.2	1110.4	871.7
82.5°	41.6	52.6	61.3	92.0	118.3	122.6	127.0	159.9	400.8	442.4	365.7
85°	19.7	26.3	28.5	39.4	39.4	35.0	41.6	30.7	65.7	78.8	76.7
87.5°	0.0	2.2	4.4	11.0	8.8	6.6	6.6	6.6	6.6	8.8	6.6
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°	1903.2	1903.2	1903.2	1903.2	1903.2	1903.2	1903.2	1903.2	1903.2	1903.2	1903.2
2.5°	1916.3	1887.8	1822.1	1765.2	1728.0	1695.1	1651.3	1631.6	1596.6	1603.1	1583.4
5°	1927.3	1874.7	1758.6	1651.3	1572.5	1502.4	1425.7	1381.9	1333.8	1329.4	1314.0
7.5°	1933.8	1852.8	1686.4	1535.2	1414.8	1307.5	1204.5	1147.6	1088.5	1075.3	1062.2
10°	1927.3	1820.0	1611.9	1414.8	1254.9	1121.3	1005.2	933.0	871.7	856.3	843.2
12.5°	1933.8	1802.4	1541.8	1303.1	1112.6	961.4	830.0	755.6	698.6	683.3	674.5
15°	1949.2	1791.5	1482.7	1202.4	985.5	816.9	687.7	624.2	578.2	562.9	558.5
17.5°	1962.3	1780.5	1419.2	1103.8	858.5	689.9	578.2	525.6	486.2	470.9	466.5
20°	1979.8	1765.2	1355.7	1009.6	746.8	589.1	490.6	444.6	413.9	403.0	400.8
22.5°	1995.2	1754.3	1296.5	915.5	643.9	508.1	424.9	387.6	365.7	354.8	354.8
25°	2034.6	1758.6	1246.2	827.8	567.2	444.6	374.5	346.0	328.5	321.9	321.9
27.5°	2080.6	1776.2	1206.7	753.4	501.5	396.4	339.5	315.4	306.6	297.9	300.0
30°	2146.3	1811.2	1180.5	692.1	453.3	359.2	311.0	293.5	284.7	282.5	282.5
32.5°	2229.5	1868.1	1178.3	652.6	418.3	330.7	291.3	275.9	271.6	269.4	269.4
35°	2328.1	1918.5	1165.1	635.1	396.4	311.0	275.9	265.0	262.8	262.8	262.8
37.5°	2446.3	2001.7	1156.4	611.0	385.5	300.0	265.0	256.2	256.2	256.2	256.2
40°	2569.0	2069.6	1143.2	589.1	381.1	293.5	258.4	247.5	247.5	247.5	247.5
42.5°	2715.7	2168.2	1138.8	578.2	374.5	289.1	249.7	236.5	238.7	238.7	240.9
45°	2893.1	2279.9	1136.7	567.2	372.3	284.7	240.9	225.6	227.8	225.6	225.6
47.5°	3072.7	2409.1	1143.2	560.7	370.1	280.3	234.3	214.6	214.6	212.4	212.4
50°	3261.0	2527.4	1147.6	554.1	365.7	271.6	223.4	205.9	201.5	197.1	199.3
52.5°	3438.4	2636.9	1149.8	543.1	352.6	258.4	214.6	194.9	188.3	181.8	184.0
55°	3615.8	2742.0	1154.2	530.0	335.1	245.3	203.7	184.0	175.2	166.4	166.4
57.5°	3775.7	2834.0	1143.2	497.1	315.4	232.1	192.7	170.8	157.7	148.9	148.9
60°	3885.2	2899.7	1110.4	449.0	289.1	216.8	181.8	157.7	142.4	135.8	135.8
62.5°	3937.8	2910.6	1051.2	370.1	256.2	201.5	168.6	144.5	131.4	127.0	127.0
65°	3887.4	2862.4	959.3	278.1	221.2	184.0	155.5	133.6	120.5	109.5	109.5
67.5°	3712.2	2726.6	832.2	210.2	188.3	166.4	142.4	122.6	107.3	98.6	98.6
70°	3359.6	2444.1	643.9	168.6	159.9	144.5	129.2	109.5	96.4	85.4	85.4
72.5°	2897.5	2071.8	453.3	135.8	135.8	122.6	109.5	96.4	83.2	74.5	74.5
75°	2222.9	1533.1	304.4	109.5	111.7	102.9	89.8	78.8	70.1	63.5	63.5
77.5°	1213.3	757.8	186.2	81.0	83.2	78.8	70.1	63.5	59.1	52.6	52.6
80°	589.1	332.9	107.3	56.9	59.1	56.9	52.6	46.0	46.0	41.6	41.6
82.5°	247.5	124.8	56.9	39.4	39.4	35.0	32.9	32.9	32.9	30.7	30.7
85°	61.3	24.1	24.1	21.9	21.9	21.9	19.7	19.7	19.7	15.3	17.5
87.5°	8.8	8.8	8.8	8.8	8.8	8.8	6.6	2.2	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)