

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: P842560

Luminaire Tested: **ARCH4-60-750-U-T2U-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842560
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-60-750-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 520mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8135 lumens
Efficiency: N/A
Efficacy: 129.1 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

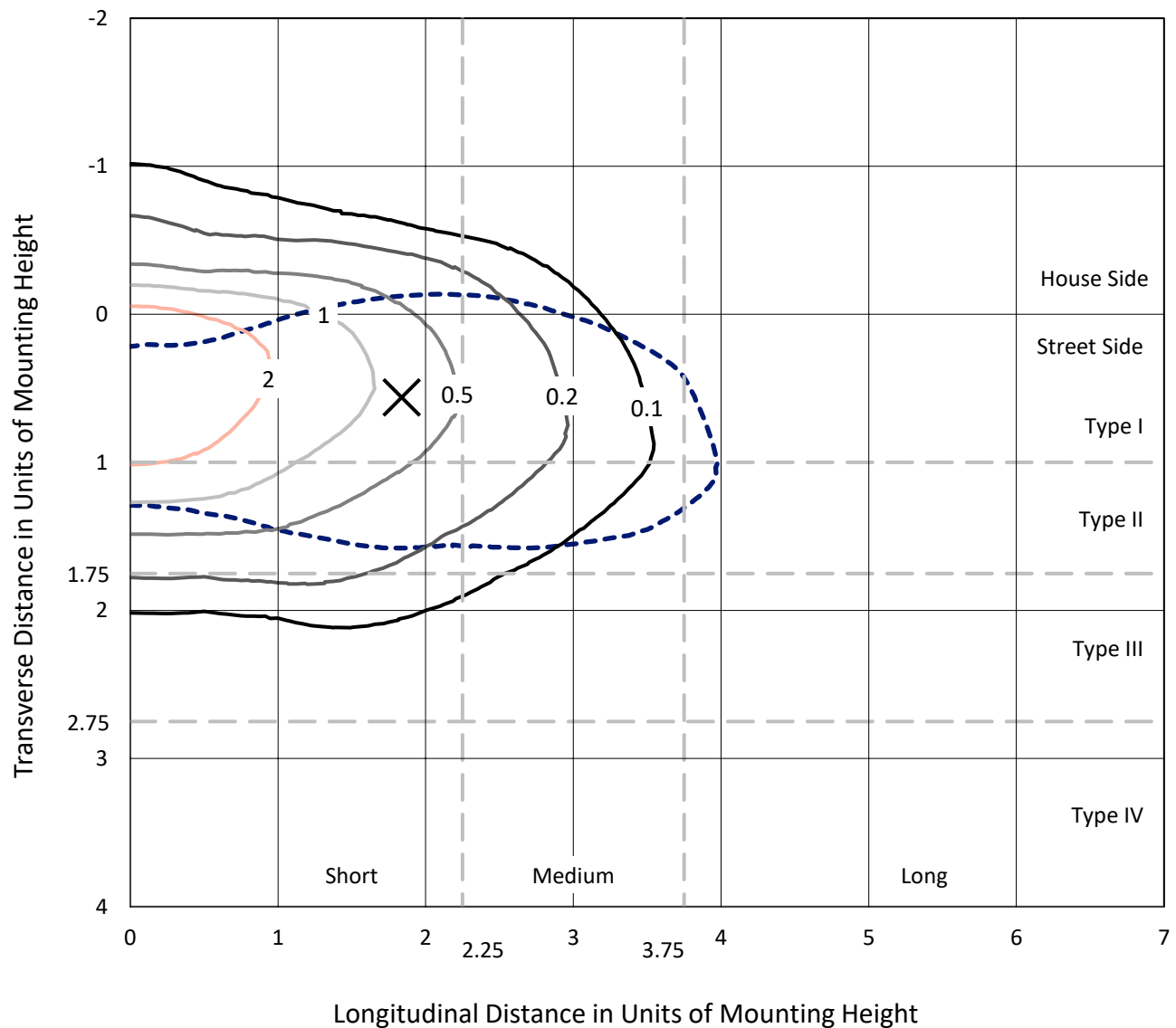
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

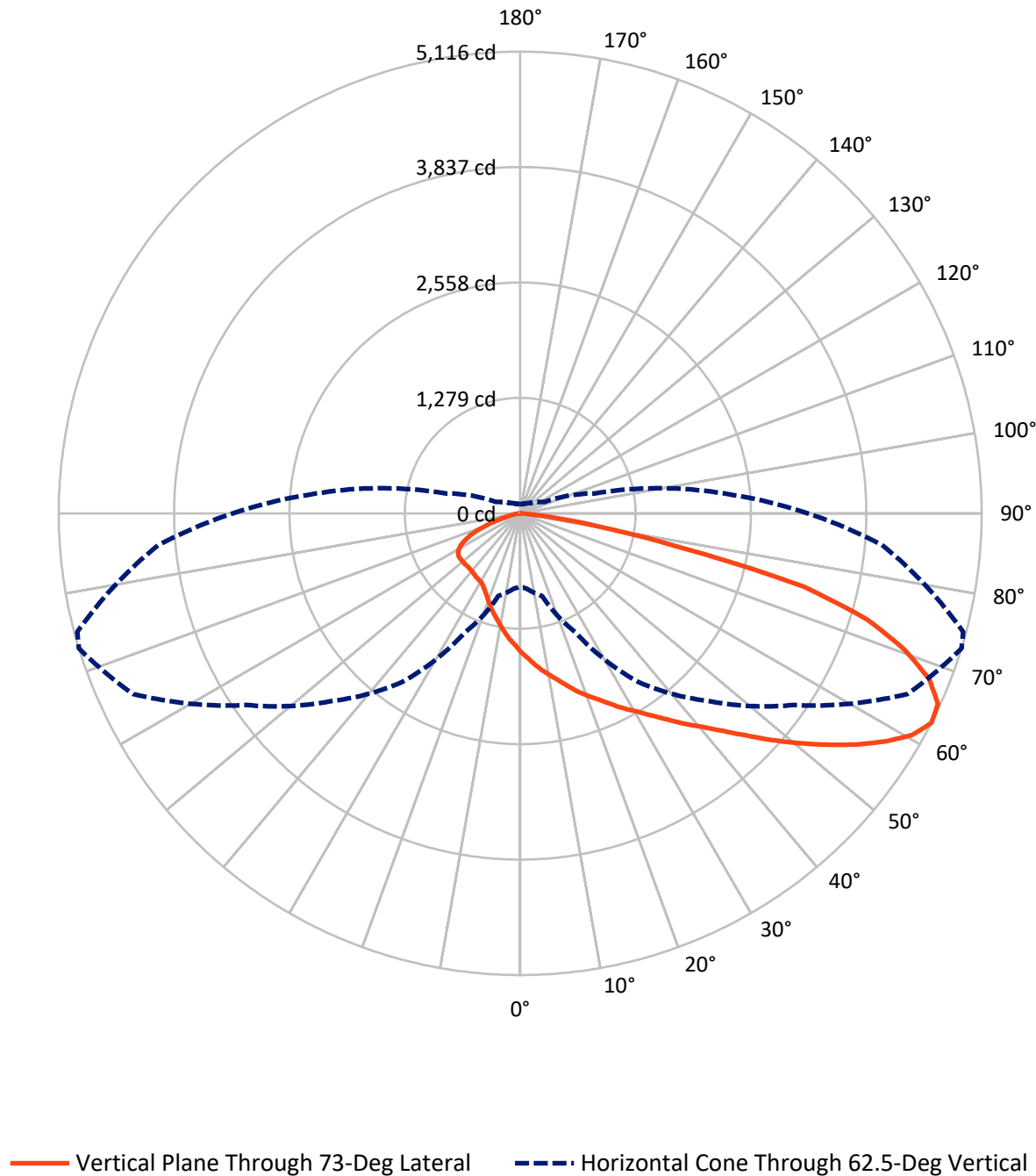
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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	1261.0	0.0	1261.0
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	6874.0	0.0	6874.0
	% Fixture	84.5	0.0	84.5
Total	Lumens	8135.0	0.0	8135.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.8	1.8
10°-20°	449.0	5.5
20°-30°	747.4	9.2
30°-40°	1127.8	13.9
40°-50°	1576.3	19.4
50°-60°	1741.2	21.4
60°-70°	1516.8	18.6
70°-80°	766.2	9.4
80°-90°	61.5	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°	8135.0	100.0
0°-180°	8135.0	100.0

Coefficient of Utilization



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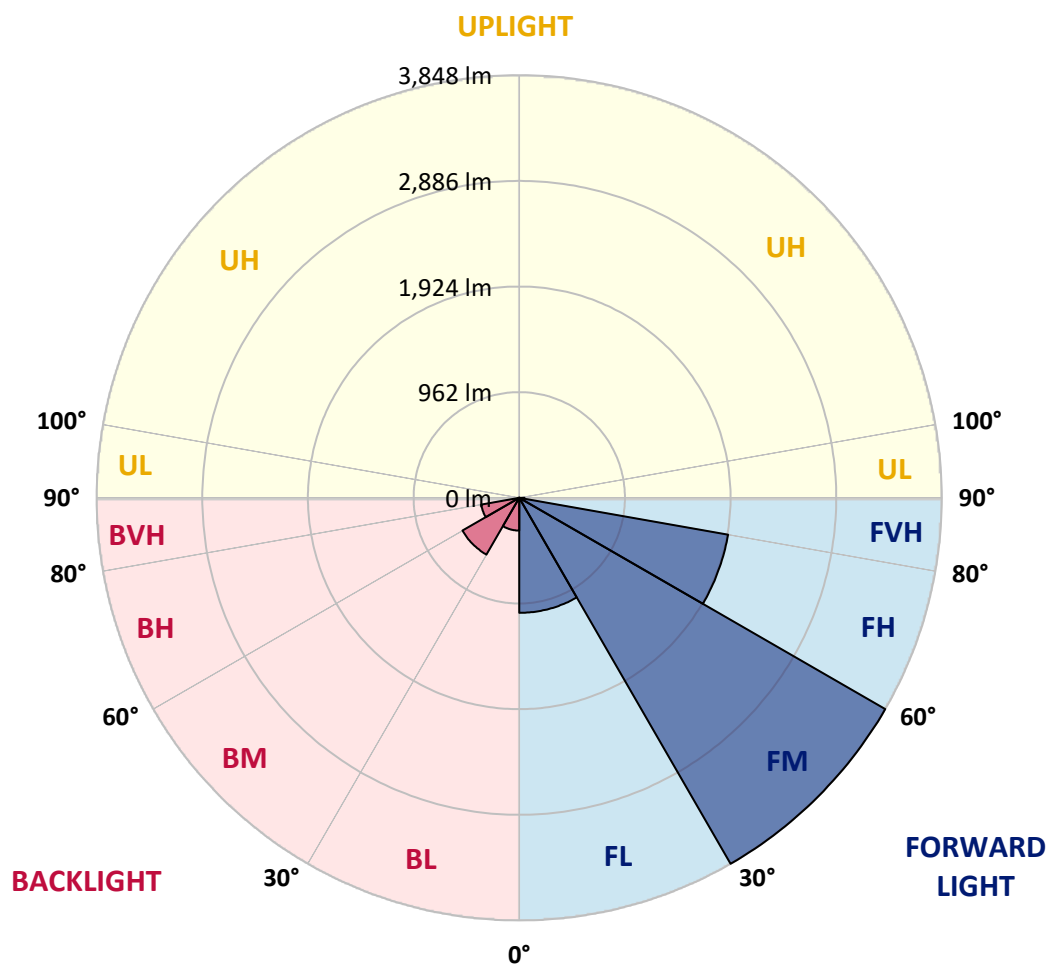
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1047.2	12.9			
FM	(30°-60°)	3848.2	47.3			
FH	(60°-80°)	1931.0	23.7			G2/5000
FVH	(80°-90°)	47.6	0.6			G1/100
BL	(0°-30°)	298.1	3.7	B1/500		
BM	(30°-60°)	597.1	7.3	B1/1000		
BH	(60°-80°)	352.0	4.3	B1/500		G1/500
BVH	(80°-90°)	13.9	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°	1540.4	1540.4	1540.4	1540.4	1540.4	1540.4	1540.4	1540.4	1540.4	1540.4	1540.4
2.5°	1753.1	1772.6	1762.0	1769.0	1733.6	1710.5	1684.0	1632.6	1604.2	1600.6	1567.0
5°	2010.1	2031.4	2013.7	2008.3	1946.3	1893.1	1832.9	1742.5	1682.2	1671.6	1597.1
7.5°	2267.1	2286.6	2265.4	2249.4	2166.1	2072.2	1983.5	1850.6	1756.6	1738.9	1621.9
10°	2447.9	2465.7	2449.7	2433.8	2346.9	2251.2	2125.3	1951.6	1824.0	1795.6	1637.9
12.5°	2584.4	2595.1	2588.0	2573.8	2492.3	2389.4	2268.9	2065.1	1900.2	1864.8	1662.7
15°	2696.1	2713.8	2705.0	2694.3	2616.3	2513.5	2398.3	2183.8	1988.8	1944.5	1699.9
17.5°	2770.6	2783.0	2784.7	2784.7	2715.6	2614.6	2502.9	2292.0	2077.5	2020.8	1735.4
20°	2804.2	2818.4	2827.3	2841.5	2784.7	2697.9	2584.4	2384.1	2160.8	2097.0	1769.0
22.5°	2820.2	2832.6	2855.6	2887.5	2841.5	2768.8	2664.2	2469.2	2244.1	2176.7	1808.0
25°	2832.6	2848.5	2882.2	2942.5	2910.6	2848.5	2758.1	2566.7	2343.4	2274.2	1864.8
27.5°	2866.3	2885.8	2917.7	2990.4	2951.4	2921.2	2857.4	2671.3	2447.9	2377.0	1933.9
30°	2983.3	2999.2	2997.4	3043.5	2995.7	2986.8	2942.5	2772.3	2549.0	2478.1	2015.4
32.5°	3196.0	3211.9	3172.9	3155.2	3050.6	3052.4	3034.7	2880.5	2669.5	2596.8	2109.4
35°	3424.6	3442.4	3391.0	3360.8	3185.3	3133.9	3142.8	3015.2	2804.2	2731.6	2226.4
37.5°	3628.5	3649.8	3605.4	3561.1	3383.9	3265.1	3263.3	3165.8	2958.5	2884.0	2355.8
40°	3740.2	3765.0	3791.6	3766.8	3580.6	3449.5	3392.7	3320.1	3110.9	3034.7	2495.8
42.5°	3793.3	3862.5	3910.3	3894.4	3741.9	3609.0	3541.6	3481.4	3297.0	3222.6	2662.4
45°	3644.4	3646.2	3747.3	3834.1	3805.7	3717.1	3704.7	3662.2	3509.7	3438.8	2850.3
47.5°	3458.3	3444.1	3515.0	3669.3	3749.0	3772.1	3844.7	3862.5	3752.6	3681.7	3041.8
50°	3011.6	3020.5	3250.9	3472.5	3628.5	3777.4	3944.0	4068.1	4002.5	3935.1	3243.8
52.5°	2449.7	2471.0	2735.1	3222.6	3469.0	3724.2	4002.5	4273.7	4257.8	4193.9	3445.9
55°	1964.0	1997.7	2277.8	2806.0	3265.1	3605.4	4027.3	4461.6	4521.9	4463.4	3644.4
57.5°	1501.4	1536.8	1772.6	2315.0	3004.5	3412.2	4009.6	4626.5	4768.3	4731.0	3827.0
60°	1130.9	1166.4	1317.0	1877.2	2678.4	3196.0	3921.0	4734.6	4989.8	4950.8	3960.0
62.5°	810.1	838.4	950.1	1460.6	2281.3	2939.0	3702.9	4736.4	5115.7	5083.8	4023.8
65°	583.2	583.2	673.6	1042.3	1909.1	2630.5	3373.2	4518.3	5089.1	5080.2	3979.5
67.5°	420.1	423.6	496.3	728.5	1522.7	2256.5	2946.0	4130.1	4883.5	4927.8	3819.9
70°	297.8	306.7	340.3	508.7	1150.4	1781.5	2488.7	3621.4	4513.0	4591.0	3511.5
72.5°	230.4	235.8	258.8	354.5	840.2	1324.1	1983.5	3054.2	4018.5	4107.1	3091.4
75°	177.3	182.6	200.3	260.6	602.7	928.8	1409.2	2370.0	3240.3	3398.1	2483.4
77.5°	129.4	136.5	148.9	189.7	351.0	590.3	854.4	1333.0	1788.5	1863.0	1301.1
80°	60.3	69.1	86.9	122.3	189.7	278.3	303.1	514.1	859.7	898.7	705.5
82.5°	33.7	42.5	49.6	74.4	95.7	99.3	102.8	129.4	324.4	358.1	296.0
85°	16.0	21.3	23.0	31.9	31.9	28.4	33.7	24.8	53.2	63.8	62.0
87.5°	0.0	1.8	3.5	8.9	7.1	5.3	5.3	5.3	5.3	7.1	5.3
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°	1540.4	1540.4	1540.4	1540.4	1540.4	1540.4	1540.4	1540.4	1540.4	1540.4	1540.4
2.5°	1551.0	1528.0	1474.8	1428.7	1398.6	1372.0	1336.5	1320.6	1292.2	1297.5	1281.6
5°	1559.9	1517.3	1423.4	1336.5	1272.7	1216.0	1154.0	1118.5	1079.5	1076.0	1063.6
7.5°	1565.2	1499.6	1364.9	1242.6	1145.1	1058.2	974.9	928.8	881.0	870.3	859.7
10°	1559.9	1473.0	1304.6	1145.1	1015.7	907.6	813.6	755.1	705.5	693.1	682.4
12.5°	1565.2	1458.8	1247.9	1054.7	900.5	778.2	671.8	611.5	565.5	553.0	546.0
15°	1577.6	1450.0	1200.0	973.2	797.7	661.2	556.6	505.2	468.0	455.6	452.0
17.5°	1588.2	1441.1	1148.6	893.4	694.9	558.4	468.0	425.4	393.5	381.1	377.6
20°	1602.4	1428.7	1097.2	817.2	604.5	476.8	397.1	359.8	335.0	326.2	324.4
22.5°	1614.8	1419.8	1049.4	740.9	521.1	411.2	343.9	313.7	296.0	287.2	287.2
25°	1646.7	1423.4	1008.6	670.0	459.1	359.8	303.1	280.1	265.9	260.6	260.6
27.5°	1684.0	1437.6	976.7	609.8	405.9	320.8	274.8	255.3	248.2	241.1	242.8
30°	1737.1	1465.9	955.4	560.1	366.9	290.7	251.7	237.5	230.4	228.7	228.7
32.5°	1804.5	1512.0	953.7	528.2	338.6	267.7	235.8	223.3	219.8	218.0	218.0
35°	1884.3	1552.8	943.0	514.1	320.8	251.7	223.3	214.5	212.7	212.7	212.7
37.5°	1980.0	1620.1	935.9	494.6	312.0	242.8	214.5	207.4	207.4	207.4	207.4
40°	2079.2	1675.1	925.3	476.8	308.4	237.5	209.2	200.3	200.3	200.3	200.3
42.5°	2198.0	1754.9	921.7	468.0	303.1	234.0	202.1	191.4	193.2	193.2	195.0
45°	2341.6	1845.3	920.0	459.1	301.3	230.4	195.0	182.6	184.3	182.6	182.6
47.5°	2486.9	1949.8	925.3	453.8	299.6	226.9	189.7	173.7	173.7	171.9	171.9
50°	2639.4	2045.6	928.8	448.5	296.0	219.8	180.8	166.6	163.1	159.5	161.3
52.5°	2783.0	2134.2	930.6	439.6	285.4	209.2	173.7	157.8	152.4	147.1	148.9
55°	2926.5	2219.3	934.2	429.0	271.2	198.5	164.9	148.9	141.8	134.7	134.7
57.5°	3055.9	2293.7	925.3	402.4	255.3	187.9	156.0	138.3	127.6	120.5	120.5
60°	3144.6	2346.9	898.7	363.4	234.0	175.5	147.1	127.6	115.2	109.9	109.9
62.5°	3187.1	2355.8	850.8	299.6	207.4	163.1	136.5	117.0	106.4	102.8	102.8
65°	3146.3	2316.8	776.4	225.1	179.0	148.9	125.9	108.1	97.5	88.6	88.6
67.5°	3004.5	2206.9	673.6	170.2	152.4	134.7	115.2	99.3	86.9	79.8	79.8
70°	2719.2	1978.2	521.1	136.5	129.4	117.0	104.6	88.6	78.0	69.1	69.1
72.5°	2345.1	1676.9	366.9	109.9	109.9	99.3	88.6	78.0	67.4	60.3	60.3
75°	1799.2	1240.8	246.4	88.6	90.4	83.3	72.7	63.8	56.7	51.4	51.4
77.5°	982.0	613.3	150.7	65.6	67.4	63.8	56.7	51.4	47.9	42.5	42.5
80°	476.8	269.4	86.9	46.1	47.9	46.1	42.5	37.2	37.2	33.7	33.7
82.5°	200.3	101.0	46.1	31.9	31.9	28.4	26.6	26.6	26.6	24.8	24.8
85°	49.6	19.5	19.5	17.7	17.7	17.7	16.0	16.0	16.0	12.4	14.2
87.5°	7.1	7.1	7.1	7.1	7.1	7.1	5.3	1.8	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)