

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: P840863

Luminaire Tested: **ARCH4-100-722-U-T4W-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P840863
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: ARCH4-100-722-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 845mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

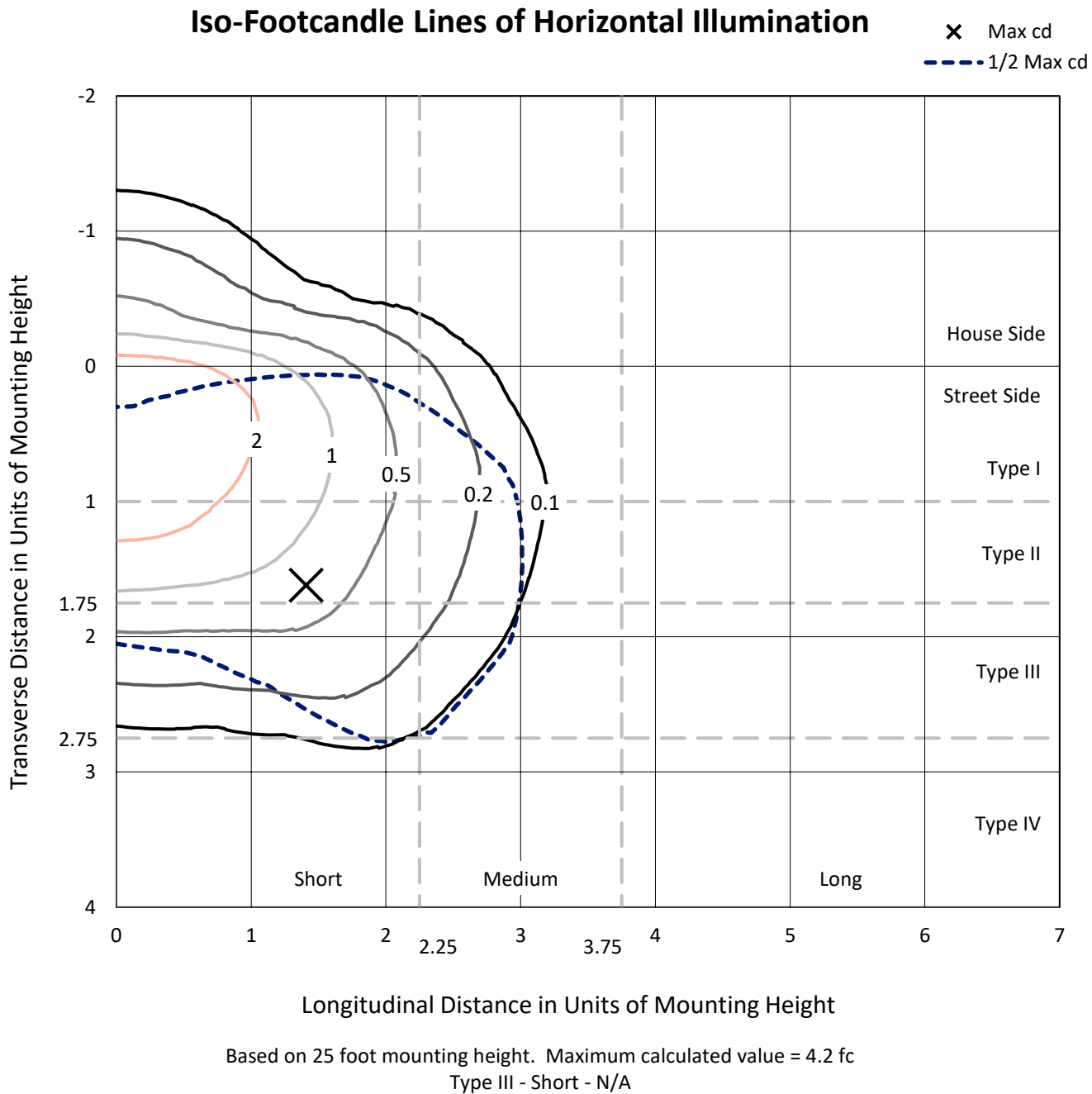
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10625 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 103.1
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

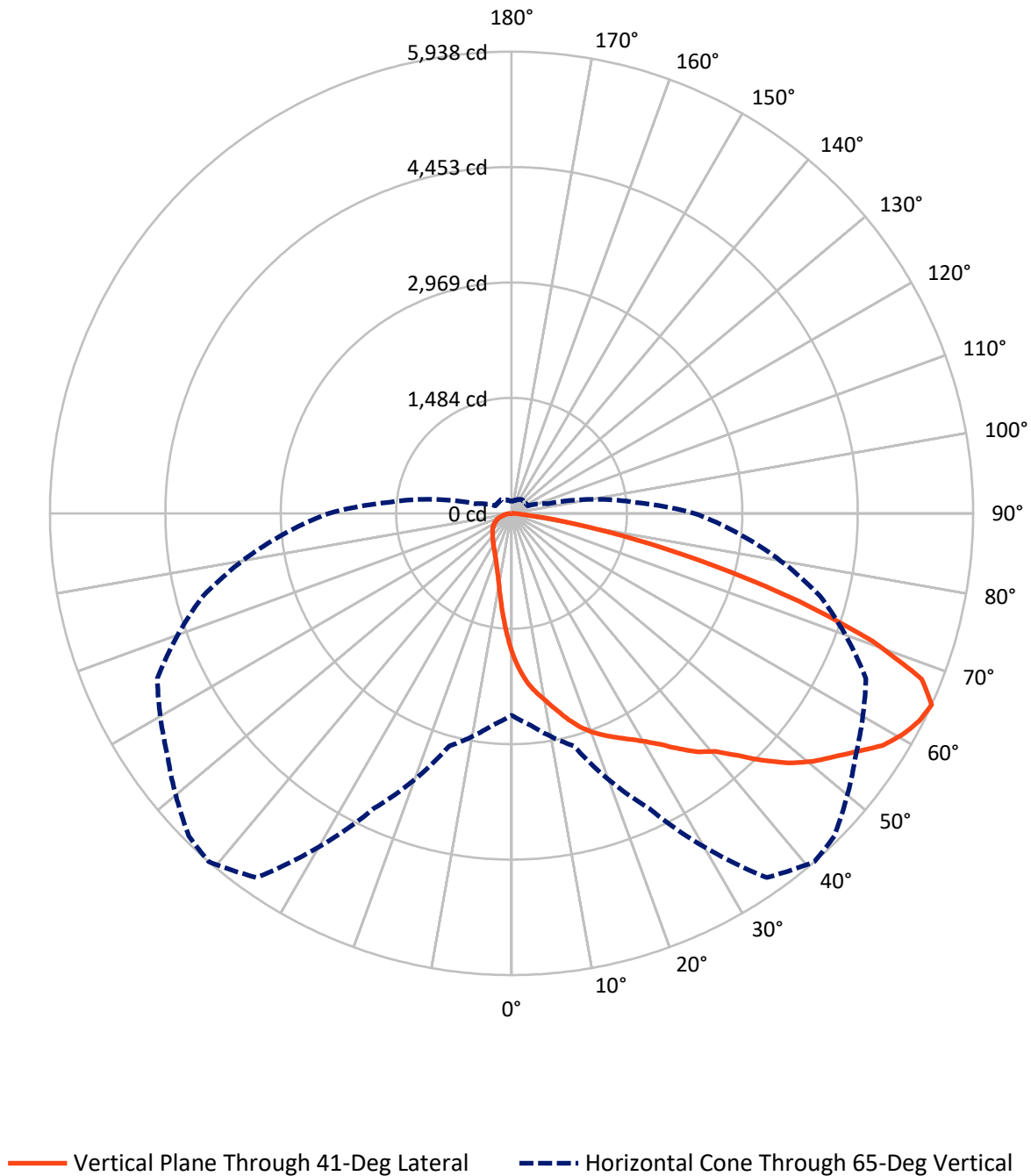


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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1364.1	0.0	1364.1
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	9260.9	0.0	9260.9
	% Fixture	87.2	0.0	87.2
Total	Lumens	10625.0	0.0	10625.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.7	1.6
10°-20°	505.8	4.8
20°-30°	870.2	8.2
30°-40°	1319.8	12.4
40°-50°	1933.5	18.2
50°-60°	2441.6	23.0
60°-70°	2289.4	21.5
70°-80°	1020.4	9.6
80°-90°	75.6	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°	10625.0	100.0
0°-180°	10625.0	100.0

Coefficient of Utilization



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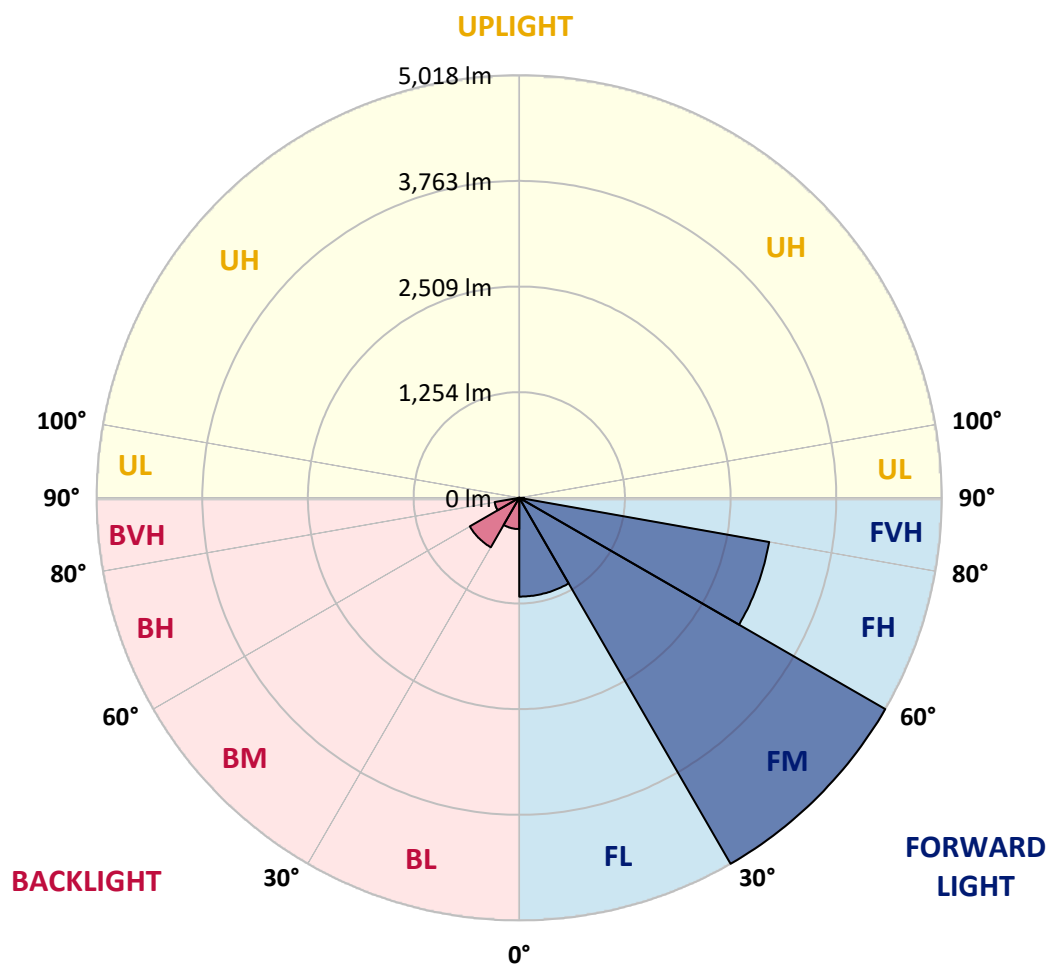
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1173.4	11.0			
FM	(30°-60°)	5017.5	47.2			
FH	(60°-80°)	3013.5	28.4			G2/5000
FVH	(80°-90°)	56.5	0.5			G1/100
BL	(0°-30°)	371.3	3.5	B1/500		
BM	(30°-60°)	677.3	6.4	B1/1000		
BH	(60°-80°)	296.3	2.8	B1/500		G1/500
BVH	(80°-90°)	19.1	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°	1810.4	1810.4	1810.4	1810.4	1810.4	1810.4	1810.4	1810.4	1810.4	1810.4	1810.4
2.5°	2088.3	2081.6	2077.1	2052.4	2052.4	2018.8	2021.1	1989.7	1951.6	1891.1	1826.1
5°	2285.5	2276.5	2265.3	2240.6	2231.7	2198.1	2193.6	2148.8	2083.8	1978.5	1862.0
7.5°	2458.0	2449.0	2433.3	2397.5	2372.8	2332.5	2321.3	2263.1	2191.4	2061.4	1897.8
10°	2614.8	2608.1	2587.9	2543.1	2509.5	2460.2	2440.1	2361.6	2272.0	2128.6	1927.0
12.5°	2773.9	2765.0	2738.1	2700.0	2659.7	2601.4	2576.7	2475.9	2361.6	2202.6	1969.5
15°	2921.8	2908.4	2888.2	2847.9	2812.0	2756.0	2729.1	2610.4	2471.4	2285.5	2025.5
17.5°	3018.2	3007.0	2989.0	2966.6	2937.5	2894.9	2868.0	2751.5	2581.2	2366.1	2083.8
20°	3076.4	3071.9	3065.2	3051.8	3038.3	3009.2	2989.0	2879.2	2700.0	2444.5	2139.8
22.5°	3121.2	3116.7	3114.5	3114.5	3116.7	3105.5	3092.1	2998.0	2814.3	2527.5	2191.4
25°	3190.7	3188.4	3184.0	3179.5	3195.2	3197.4	3192.9	3127.9	2957.7	2637.2	2256.3
27.5°	3287.0	3280.3	3271.3	3266.9	3282.6	3293.8	3302.7	3257.9	3110.0	2749.3	2330.3
30°	3434.9	3414.7	3392.3	3376.7	3387.9	3405.8	3426.0	3399.1	3266.9	2888.2	2406.5
32.5°	3609.7	3585.0	3533.5	3504.4	3533.5	3546.9	3562.6	3549.2	3430.4	3038.3	2482.6
35°	3822.5	3793.4	3739.6	3697.1	3748.6	3719.5	3712.8	3699.3	3585.0	3186.2	2567.8
37.5°	4176.6	4134.0	4048.9	3954.7	3954.7	3892.0	3867.4	3827.0	3724.0	3318.4	2650.7
40°	4586.6	4530.6	4420.8	4281.9	4154.2	4024.2	4008.5	3979.4	3887.5	3470.8	2744.8
42.5°	5037.0	4929.4	4777.1	4609.0	4402.9	4255.0	4219.1	4136.2	4046.6	3625.4	2838.9
45°	5536.6	5312.6	5090.8	5005.6	4665.0	4530.6	4463.4	4313.2	4212.4	3786.7	2937.5
47.5°	5617.3	5442.5	5294.7	5281.2	4909.3	4797.2	4721.0	4505.9	4391.7	3959.2	3040.6
50°	5572.5	5467.2	5482.9	5429.1	5088.5	5014.6	4956.3	4712.1	4568.7	4125.0	3134.7
52.5°	5384.3	5442.5	5532.2	5433.6	5258.8	5198.3	5169.2	4933.9	4734.5	4277.4	3219.8
55°	5160.2	5200.5	5393.2	5514.2	5456.0	5402.2	5375.3	5191.6	4898.1	4405.1	3298.2
57.5°	4833.1	4815.2	5028.0	5500.8	5662.1	5630.8	5601.6	5444.8	5050.4	4497.0	3347.5
60°	4342.4	4304.3	4573.2	5231.9	5729.3	5778.6	5765.2	5612.8	5166.9	4494.7	3327.4
62.5°	3493.2	3587.3	3959.2	4792.7	5758.5	5883.9	5859.3	5626.3	5205.0	4364.8	3199.6
65°	2596.9	2731.4	3096.6	4187.8	5718.1	5937.7	5870.5	5406.7	5028.0	4107.1	2919.6
67.5°	1870.9	1989.7	2256.3	3446.1	5330.5	5691.2	5612.8	5048.2	4620.2	3741.9	2531.9
70°	1279.4	1364.6	1546.0	2509.5	4550.8	4920.5	4871.2	4512.7	3977.2	3307.2	2056.9
72.5°	903.0	938.8	1055.3	1655.8	3457.3	3860.6	3802.4	3712.8	3195.2	2749.3	1599.8
75°	676.7	699.1	761.8	1071.0	2332.5	2675.3	2621.6	2673.1	2386.3	2081.6	1165.1
77.5°	255.4	277.8	432.4	683.4	1380.2	1642.4	1588.6	1620.0	1326.5	1050.9	580.3
80°	69.5	73.9	143.4	324.9	627.4	817.8	743.9	638.6	492.9	484.0	307.0
82.5°	29.1	33.6	65.0	174.8	224.1	224.1	188.2	233.0	188.2	226.3	147.9
85°	11.2	13.4	15.7	44.8	29.1	31.4	33.6	44.8	38.1	47.1	33.6
87.5°	0.0	0.0	0.0	2.2	2.2	4.5	2.2	4.5	6.7	6.7	6.7
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°	1810.4	1810.4	1810.4	1810.4	1810.4	1810.4	1810.4	1810.4	1810.4	1810.4	1810.4
2.5°	1799.2	1774.6	1738.7	1680.5	1620.0	1586.4	1543.8	1537.1	1492.3	1487.8	1469.9
5°	1810.4	1758.9	1667.0	1555.0	1445.2	1360.1	1297.3	1263.7	1198.7	1198.7	1180.8
7.5°	1819.4	1738.7	1590.9	1425.1	1274.9	1160.7	1075.5	1039.7	981.4	976.9	963.5
10°	1821.6	1714.1	1508.0	1292.9	1109.1	992.6	909.7	869.4	817.8	813.4	804.4
12.5°	1839.6	1700.7	1434.0	1178.6	990.4	864.9	784.2	750.6	710.3	705.8	696.8
15°	1868.7	1700.7	1371.3	1082.2	885.1	768.5	699.1	667.7	638.6	634.1	629.6
17.5°	1897.8	1696.2	1308.5	992.6	797.7	692.4	631.9	607.2	584.8	582.6	578.1
20°	1924.7	1693.9	1245.8	916.4	730.5	629.6	582.6	560.2	542.2	542.2	540.0
22.5°	1951.6	1689.4	1185.3	844.7	672.2	582.6	542.2	517.6	504.1	504.1	501.9
25°	1991.9	1689.4	1129.3	784.2	625.1	546.7	506.4	488.5	477.3	475.0	475.0
27.5°	2039.0	1702.9	1080.0	730.5	584.8	510.9	479.5	461.6	448.1	443.6	445.9
30°	2090.5	1714.1	1035.2	683.4	546.7	484.0	450.4	432.4	419.0	414.5	416.8
32.5°	2142.1	1727.5	994.8	640.8	508.6	459.3	425.7	405.6	392.1	389.9	389.9
35°	2198.1	1741.0	954.5	605.0	477.3	434.7	403.3	380.9	371.9	367.5	369.7
37.5°	2254.1	1763.4	916.4	571.4	454.9	412.3	383.2	360.7	354.0	351.8	351.8
40°	2321.3	1797.0	900.7	549.0	434.7	392.1	367.5	345.1	338.3	338.3	338.3
42.5°	2377.3	1823.9	887.3	524.3	419.0	374.2	351.8	333.9	329.4	327.1	329.4
45°	2433.3	1848.5	869.4	501.9	398.8	356.3	338.3	320.4	315.9	315.9	315.9
47.5°	2489.4	1862.0	844.7	479.5	380.9	340.6	324.9	309.2	304.7	304.7	304.7
50°	2534.2	1873.2	808.9	454.9	360.7	327.1	311.5	295.8	291.3	291.3	291.3
52.5°	2579.0	1875.4	770.8	425.7	340.6	311.5	298.0	282.3	277.8	275.6	275.6
55°	2619.3	1873.2	726.0	392.1	318.2	293.5	282.3	268.9	259.9	251.0	255.4
57.5°	2648.4	1870.9	674.4	358.5	295.8	275.6	271.1	253.2	235.3	212.9	217.3
60°	2637.2	1846.3	618.4	315.9	271.1	257.7	257.7	233.0	201.7	190.5	192.7
62.5°	2565.5	1776.8	560.2	271.1	246.5	239.7	237.5	210.6	186.0	174.8	177.0
65°	2350.4	1602.1	475.0	230.8	221.8	219.6	219.6	194.9	172.5	159.1	161.3
67.5°	2023.3	1344.4	387.6	194.9	197.2	201.7	201.7	179.3	156.8	143.4	145.6
70°	1622.2	1050.9	309.2	168.0	170.3	177.0	181.5	161.3	141.2	127.7	127.7
72.5°	1221.2	797.7	248.7	141.2	152.4	152.4	159.1	143.4	123.2	109.8	112.0
75°	885.1	571.4	197.2	118.8	132.2	130.0	130.0	121.0	105.3	96.3	96.3
77.5°	419.0	300.2	156.8	85.1	103.1	100.8	103.1	96.3	89.6	80.7	82.9
80°	206.1	147.9	100.8	60.5	71.7	73.9	80.7	76.2	73.9	67.2	67.2
82.5°	98.6	58.3	47.1	42.6	49.3	51.5	56.0	56.0	58.3	53.8	53.8
85°	26.9	15.7	20.2	26.9	31.4	33.6	38.1	40.3	40.3	38.1	40.3
87.5°	6.7	6.7	9.0	13.4	15.7	17.9	20.2	20.2	9.0	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)