

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: P842533

Luminaire Tested: **ARCH4-60-730-U-T2U-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842533
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: ARCH4-60-730-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 520mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

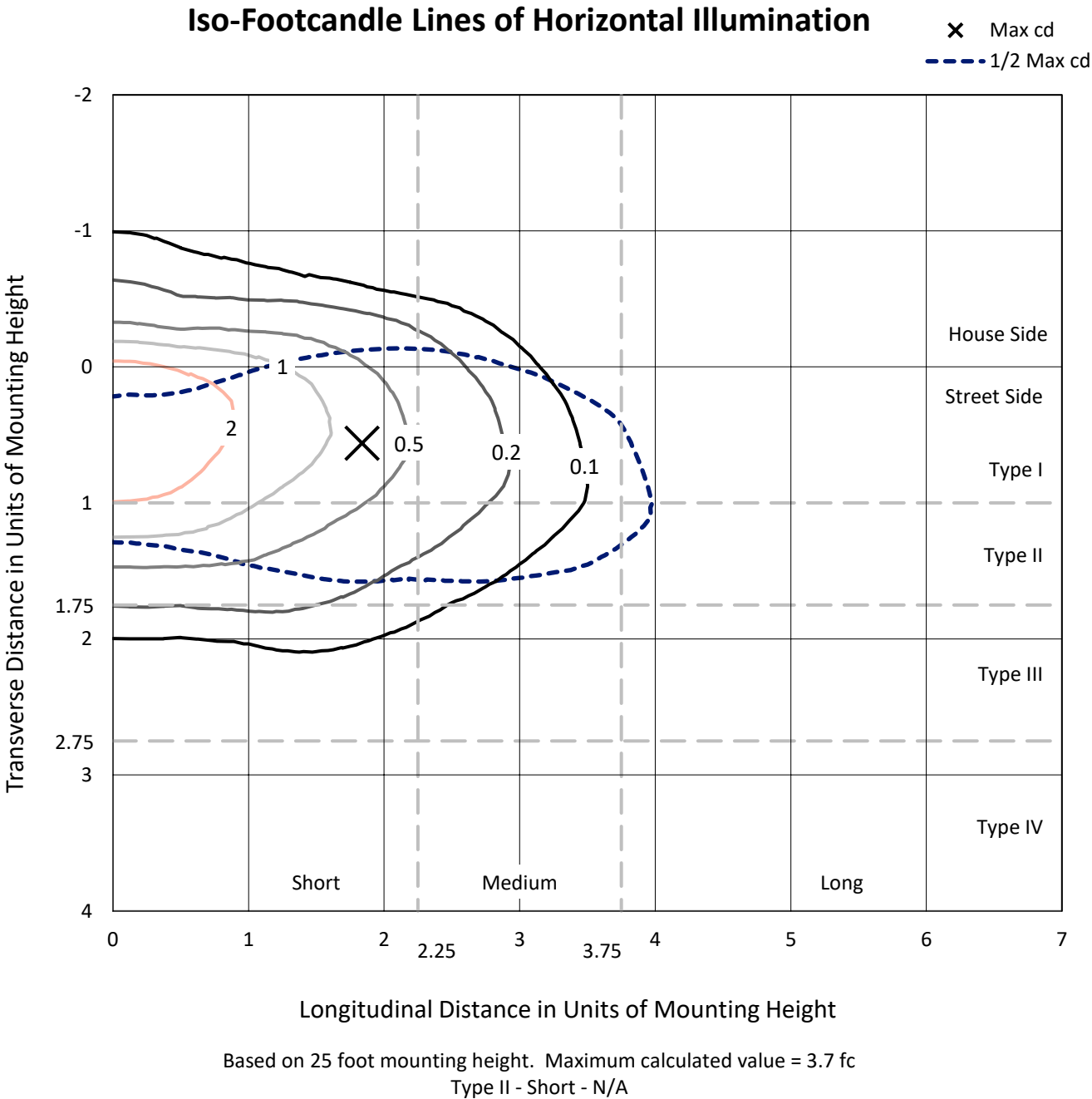
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7747 lumens
Efficiency: N/A
Efficacy: 123.0 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

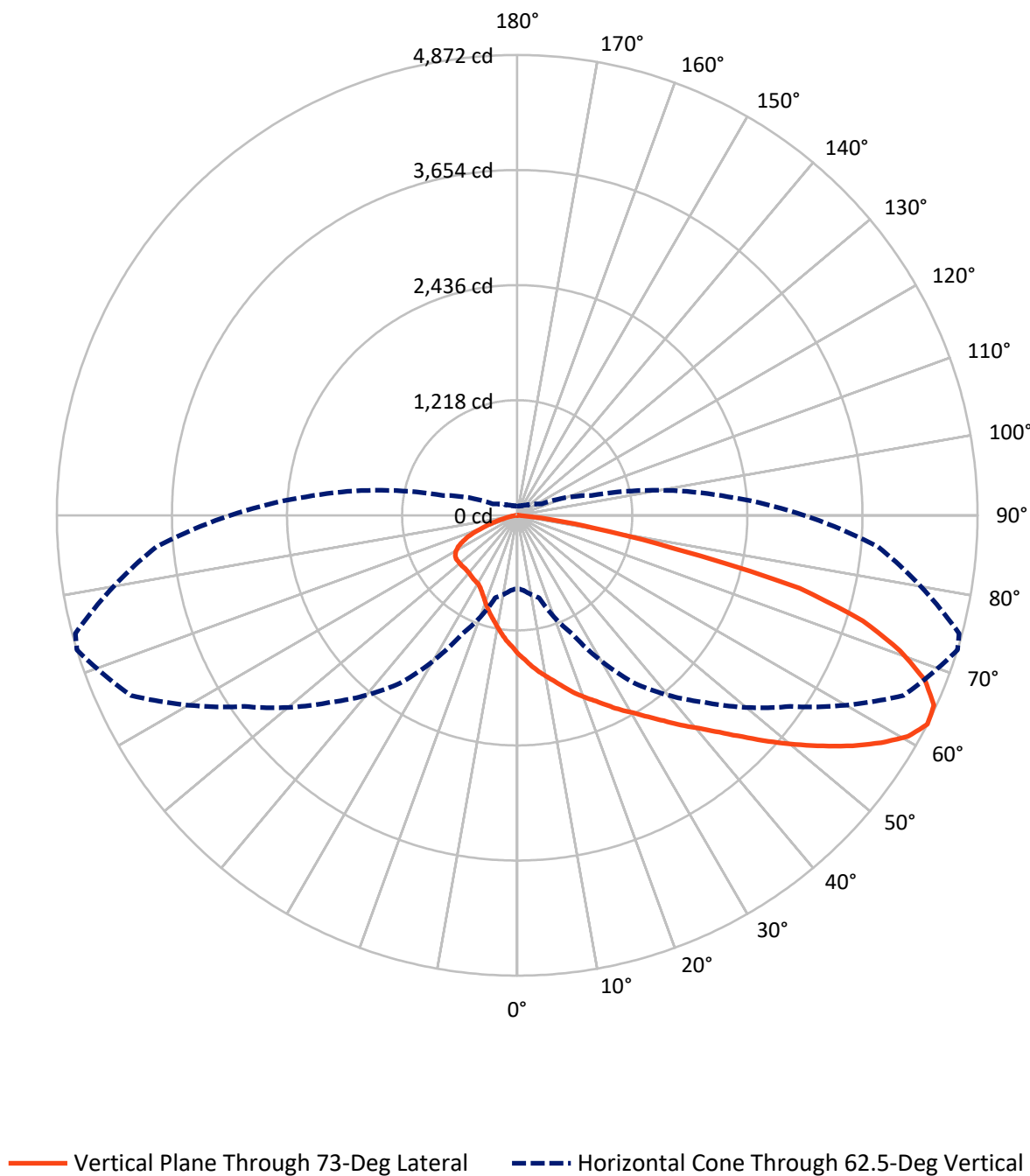


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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1200.9	0.0	1200.9
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	6546.1	0.0	6546.1
	% Fixture	84.5	0.0	84.5
Total	Lumens	7747.0	0.0	7747.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.7	1.8
10°-20°	427.6	5.5
20°-30°	711.8	9.2
30°-40°	1074.0	13.9
40°-50°	1501.1	19.4
50°-60°	1658.1	21.4
60°-70°	1444.4	18.6
70°-80°	729.6	9.4
80°-90°	58.6	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°	7747.0	100.0
0°-180°	7747.0	100.0

Coefficient of Utilization



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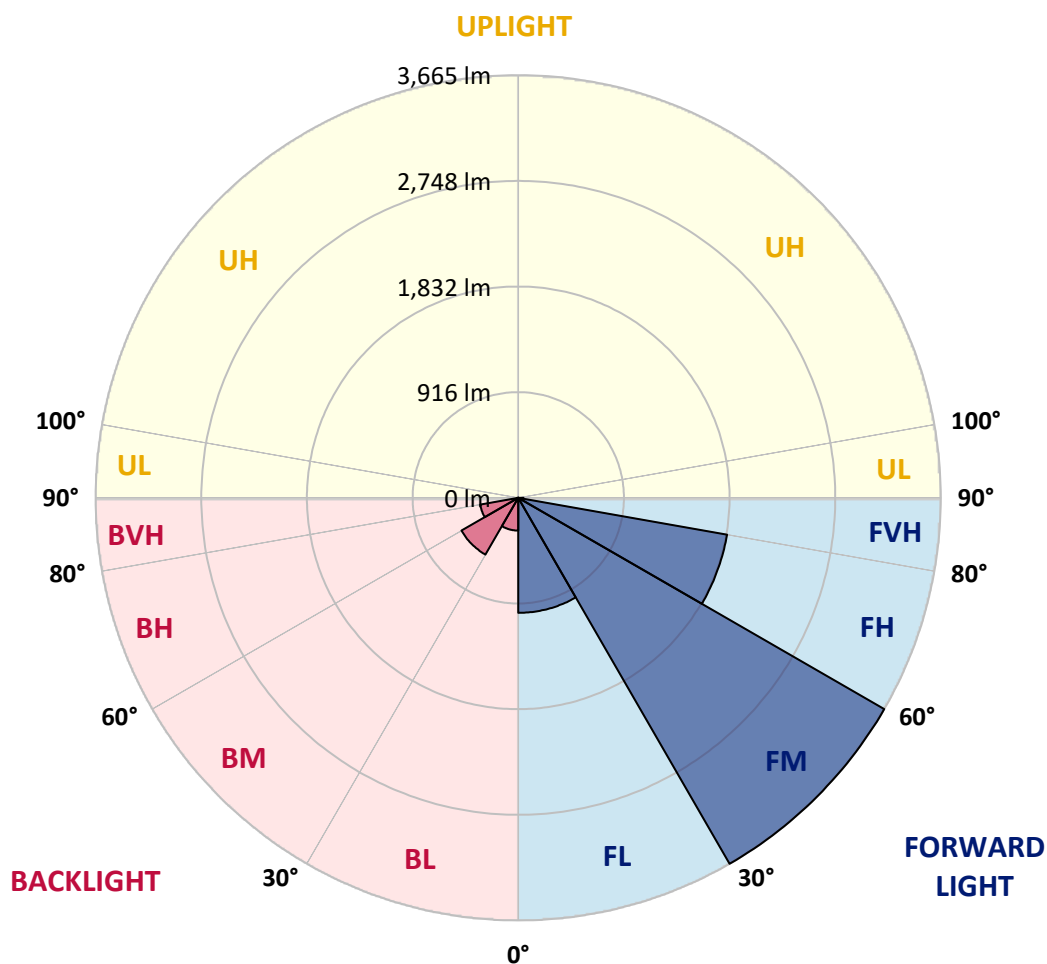
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	997.3	12.9			
FM	(30°-60°)	3664.6	47.3			
FH	(60°-80°)	1838.9	23.7			G2/5000
FVH	(80°-90°)	45.3	0.6			G1/100
BL	(0°-30°)	283.8	3.7	B1/500		
BM	(30°-60°)	568.6	7.3	B1/1000		
BH	(60°-80°)	335.2	4.3	B1/500		G1/500
BVH	(80°-90°)	13.2	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°	1466.9	1466.9	1466.9	1466.9	1466.9	1466.9	1466.9	1466.9	1466.9	1466.9	1466.9
2.5°	1669.5	1688.0	1677.9	1684.7	1650.9	1629.0	1603.6	1554.7	1527.7	1524.3	1492.2
5°	1914.2	1934.5	1917.6	1912.6	1853.5	1802.8	1745.4	1659.3	1602.0	1591.8	1520.9
7.5°	2159.0	2177.6	2157.3	2142.1	2062.8	1973.3	1888.9	1762.3	1672.9	1656.0	1544.6
10°	2331.2	2348.1	2332.9	2317.7	2235.0	2143.8	2024.0	1858.5	1737.0	1710.0	1559.8
12.5°	2461.2	2471.3	2464.5	2451.0	2373.4	2275.5	2160.7	1966.6	1809.6	1775.8	1583.4
15°	2567.5	2584.4	2576.0	2565.8	2491.6	2393.6	2283.9	2079.7	1894.0	1851.8	1618.8
17.5°	2638.4	2650.2	2651.9	2651.9	2586.1	2489.9	2383.5	2182.6	1978.4	1924.4	1652.6
20°	2670.5	2684.0	2692.4	2705.9	2651.9	2569.2	2461.2	2270.4	2057.7	1997.0	1684.7
22.5°	2685.7	2697.5	2719.4	2749.8	2705.9	2636.7	2537.1	2351.4	2137.1	2072.9	1721.8
25°	2697.5	2712.7	2744.8	2802.2	2771.8	2712.7	2626.6	2444.3	2231.6	2165.8	1775.8
27.5°	2729.6	2748.1	2778.5	2847.7	2810.6	2781.9	2721.1	2543.9	2331.2	2263.7	1841.7
30°	2841.0	2856.2	2854.5	2898.4	2852.8	2844.4	2802.2	2640.1	2427.4	2359.9	1919.3
32.5°	3043.5	3058.7	3021.6	3004.7	2905.1	2906.8	2889.9	2743.1	2542.2	2473.0	2008.8
35°	3261.3	3278.2	3229.2	3200.5	3033.4	2984.5	2992.9	2871.4	2670.5	2601.3	2120.2
37.5°	3455.4	3475.7	3433.5	3391.3	3222.5	3109.4	3107.7	3014.8	2817.3	2746.4	2243.4
40°	3561.8	3585.4	3610.7	3587.1	3409.9	3284.9	3230.9	3161.7	2962.5	2889.9	2376.8
42.5°	3612.4	3678.2	3723.8	3708.6	3563.5	3436.9	3372.7	3315.3	3139.8	3068.9	2535.4
45°	3470.6	3472.3	3568.5	3651.2	3624.2	3539.8	3528.0	3487.5	3342.3	3274.8	2714.4
47.5°	3293.4	3279.9	3347.4	3494.3	3570.2	3592.2	3661.4	3678.2	3573.6	3506.1	2896.7
50°	2868.0	2876.4	3095.9	3306.9	3455.4	3597.2	3755.9	3874.1	3811.6	3747.5	3089.1
52.5°	2332.9	2353.1	2604.7	3068.9	3303.5	3546.6	3811.6	4069.9	4054.7	3993.9	3281.6
55°	1870.4	1902.4	2169.1	2672.2	3109.4	3433.5	3835.2	4248.8	4306.2	4250.5	3470.6
57.5°	1429.8	1463.5	1688.0	2204.6	2861.2	3249.5	3818.4	4405.8	4540.8	4505.4	3644.5
60°	1077.0	1110.7	1254.2	1787.6	2550.6	3043.5	3734.0	4508.8	4751.8	4714.7	3771.1
62.5°	771.4	798.4	904.8	1390.9	2172.5	2798.8	3526.3	4510.5	4871.7	4841.3	3831.9
65°	555.4	555.4	641.5	992.6	1818.0	2505.1	3212.3	4302.8	4846.4	4837.9	3789.7
67.5°	400.1	403.4	472.7	693.8	1450.0	2148.9	2805.5	3933.1	4650.6	4692.8	3637.7
70°	283.6	292.0	324.1	484.5	1095.5	1696.5	2370.0	3448.7	4297.8	4372.0	3344.0
72.5°	219.4	224.5	246.5	337.6	800.1	1261.0	1888.9	2908.5	3826.8	3911.2	2944.0
75°	168.8	173.9	190.7	248.1	573.9	884.5	1342.0	2256.9	3085.7	3236.0	2365.0
77.5°	123.2	130.0	141.8	180.6	334.2	562.1	813.6	1269.4	1703.2	1774.1	1239.0
80°	57.4	65.8	82.7	116.5	180.6	265.0	288.7	489.5	818.7	855.8	671.8
82.5°	32.1	40.5	47.3	70.9	91.2	94.5	97.9	123.2	308.9	341.0	281.9
85°	15.2	20.3	21.9	30.4	30.4	27.0	32.1	23.6	50.6	60.8	59.1
87.5°	0.0	1.7	3.4	8.4	6.8	5.1	5.1	5.1	5.1	6.8	5.1
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°	1466.9	1466.9	1466.9	1466.9	1466.9	1466.9	1466.9	1466.9	1466.9	1466.9	1466.9
2.5°	1477.0	1455.1	1404.5	1360.6	1331.9	1306.5	1272.8	1257.6	1230.6	1235.6	1220.5
5°	1485.5	1445.0	1355.5	1272.8	1212.0	1158.0	1098.9	1065.2	1028.0	1024.6	1012.8
7.5°	1490.5	1428.1	1299.8	1183.3	1090.5	1007.8	928.4	884.5	839.0	828.8	818.7
10°	1485.5	1402.8	1242.4	1090.5	967.2	864.3	774.8	719.1	671.8	660.0	649.9
12.5°	1490.5	1389.3	1188.4	1004.4	857.5	741.1	639.8	582.4	538.5	526.7	519.9
15°	1502.4	1380.8	1142.8	926.7	759.6	629.6	530.0	481.1	445.6	433.8	430.5
17.5°	1512.5	1372.4	1093.9	850.8	661.7	531.7	445.6	405.1	374.7	362.9	359.6
20°	1526.0	1360.6	1044.9	778.2	575.6	454.1	378.1	342.7	319.0	310.6	308.9
22.5°	1537.8	1352.1	999.3	705.6	496.3	391.6	327.5	298.8	281.9	273.5	273.5
25°	1568.2	1355.5	960.5	638.1	437.2	342.7	288.7	266.7	253.2	248.1	248.1
27.5°	1603.6	1369.0	930.1	580.7	386.6	305.5	261.6	243.1	236.3	229.6	231.3
30°	1654.3	1396.0	909.9	533.4	349.4	276.8	239.7	226.2	219.4	217.8	217.8
32.5°	1718.4	1439.9	908.2	503.0	322.4	254.9	224.5	212.7	209.3	207.6	207.6
35°	1794.4	1478.7	898.0	489.5	305.5	239.7	212.7	204.3	202.6	202.6	202.6
37.5°	1885.5	1542.9	891.3	471.0	297.1	231.3	204.3	197.5	197.5	197.5	197.5
40°	1980.1	1595.2	881.2	454.1	293.7	226.2	199.2	190.7	190.7	190.7	190.7
42.5°	2093.2	1671.2	877.8	445.6	288.7	222.8	192.4	182.3	184.0	184.0	185.7
45°	2229.9	1757.3	876.1	437.2	287.0	219.4	185.7	173.9	175.6	173.9	173.9
47.5°	2368.3	1856.8	881.2	432.1	285.3	216.1	180.6	165.4	165.4	163.7	163.7
50°	2513.5	1948.0	884.5	427.1	281.9	209.3	172.2	158.7	155.3	151.9	153.6
52.5°	2650.2	2032.4	886.2	418.6	271.8	199.2	165.4	150.2	145.2	140.1	141.8
55°	2787.0	2113.4	889.6	408.5	258.3	189.1	157.0	141.8	135.0	128.3	128.3
57.5°	2910.2	2184.3	881.2	383.2	243.1	178.9	148.5	131.7	121.5	114.8	114.8
60°	2994.6	2235.0	855.8	346.0	222.8	167.1	140.1	121.5	109.7	104.7	104.7
62.5°	3035.1	2243.4	810.3	285.3	197.5	155.3	130.0	111.4	101.3	97.9	97.9
65°	2996.3	2206.3	739.4	214.4	170.5	141.8	119.9	103.0	92.8	84.4	84.4
67.5°	2861.2	2101.6	641.5	162.1	145.2	128.3	109.7	94.5	82.7	76.0	76.0
70°	2589.5	1883.9	496.3	130.0	123.2	111.4	99.6	84.4	74.3	65.8	65.8
72.5°	2233.3	1596.9	349.4	104.7	104.7	94.5	84.4	74.3	64.1	57.4	57.4
75°	1713.4	1181.6	234.6	84.4	86.1	79.3	69.2	60.8	54.0	49.0	49.0
77.5°	935.2	584.1	143.5	62.5	64.1	60.8	54.0	49.0	45.6	40.5	40.5
80°	454.1	256.6	82.7	43.9	45.6	43.9	40.5	35.4	35.4	32.1	32.1
82.5°	190.7	96.2	43.9	30.4	30.4	27.0	25.3	25.3	25.3	23.6	23.6
85°	47.3	18.6	18.6	16.9	16.9	16.9	15.2	15.2	15.2	11.8	13.5
87.5°	6.8	6.8	6.8	6.8	6.8	6.8	5.1	1.7	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)