

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: P800066

Luminaire Tested: **ARCH2-70-750-U-T2R-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P800066
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-2)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-70-750-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 555mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7437 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 73.6
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



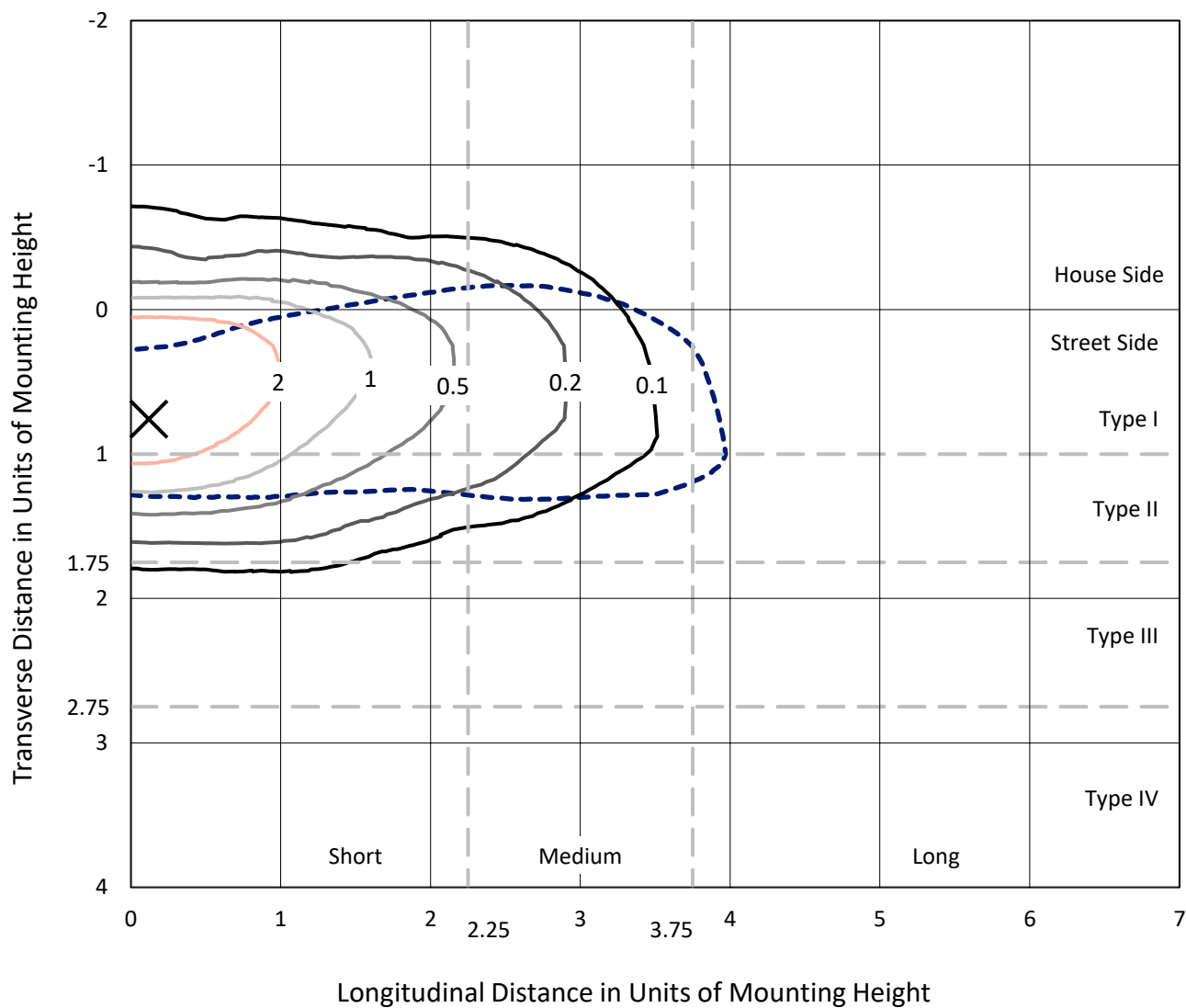
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

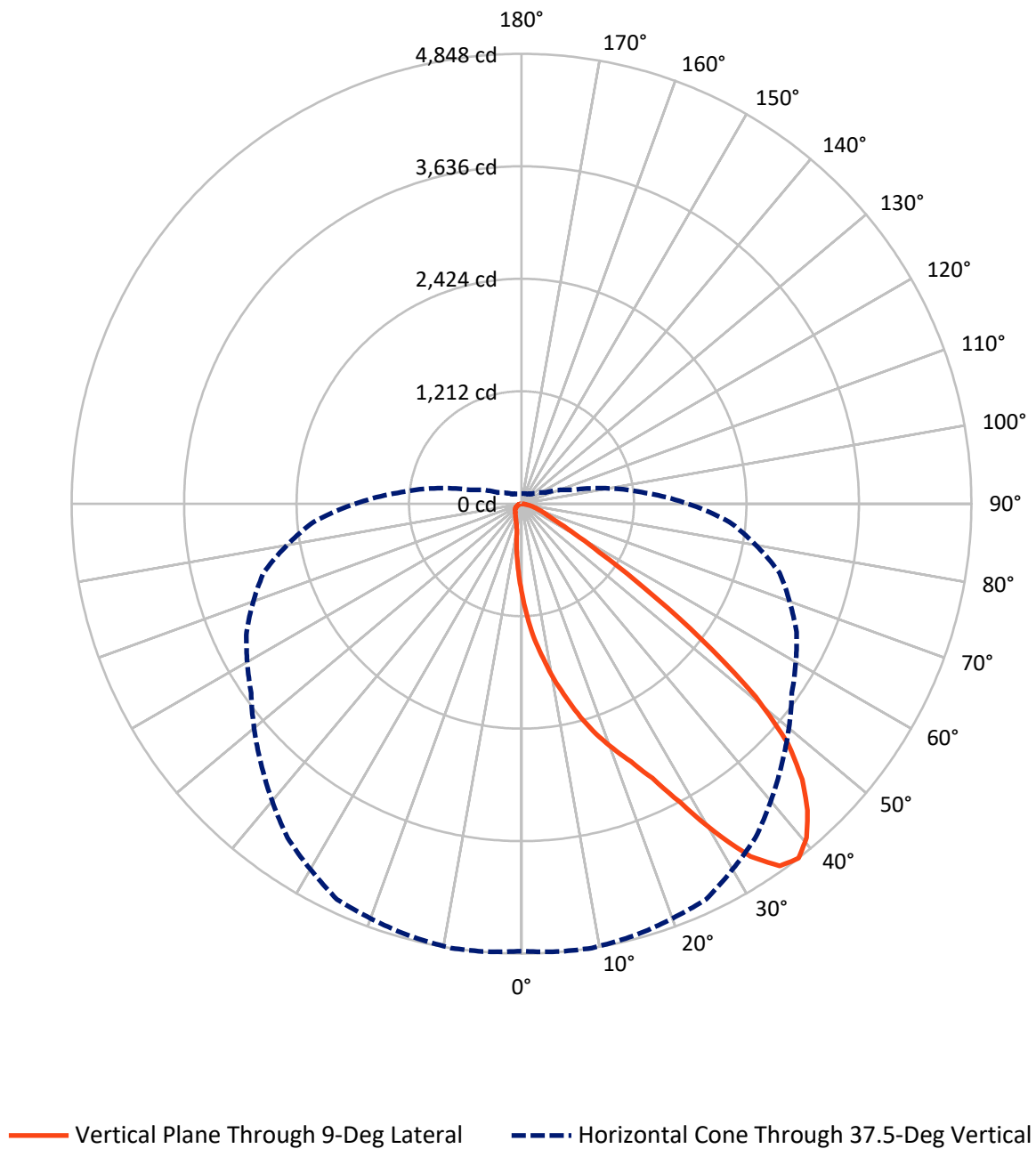


Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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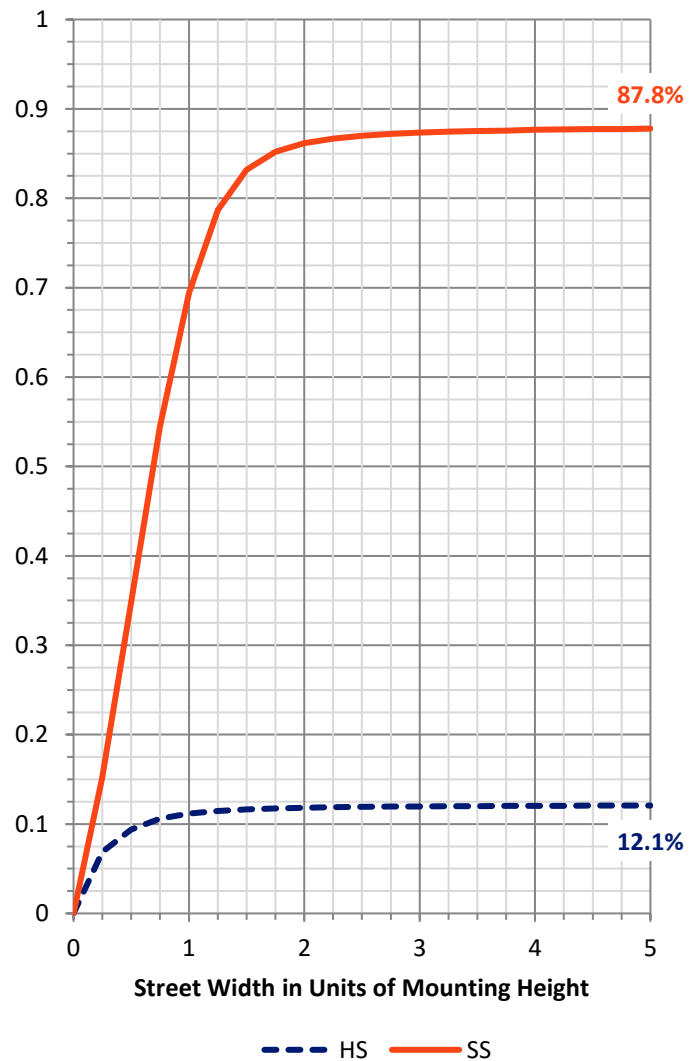
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	904.5	0.0	904.5
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	6532.5	0.0	6532.5
	% Fixture	87.8	0.0	87.8
Total	Lumens	7437.0	0.0	7437.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.8	1.3
10°-20°	343.4	4.6
20°-30°	705.7	9.5
30°-40°	1247.4	16.8
40°-50°	1657.0	22.3
50°-60°	1571.6	21.1
60°-70°	1199.0	16.1
70°-80°	581.3	7.8
80°-90°	32.7	0.4
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°	7437.0	100.0
0°-180°	7437.0	100.0

Coefficient of Utilization



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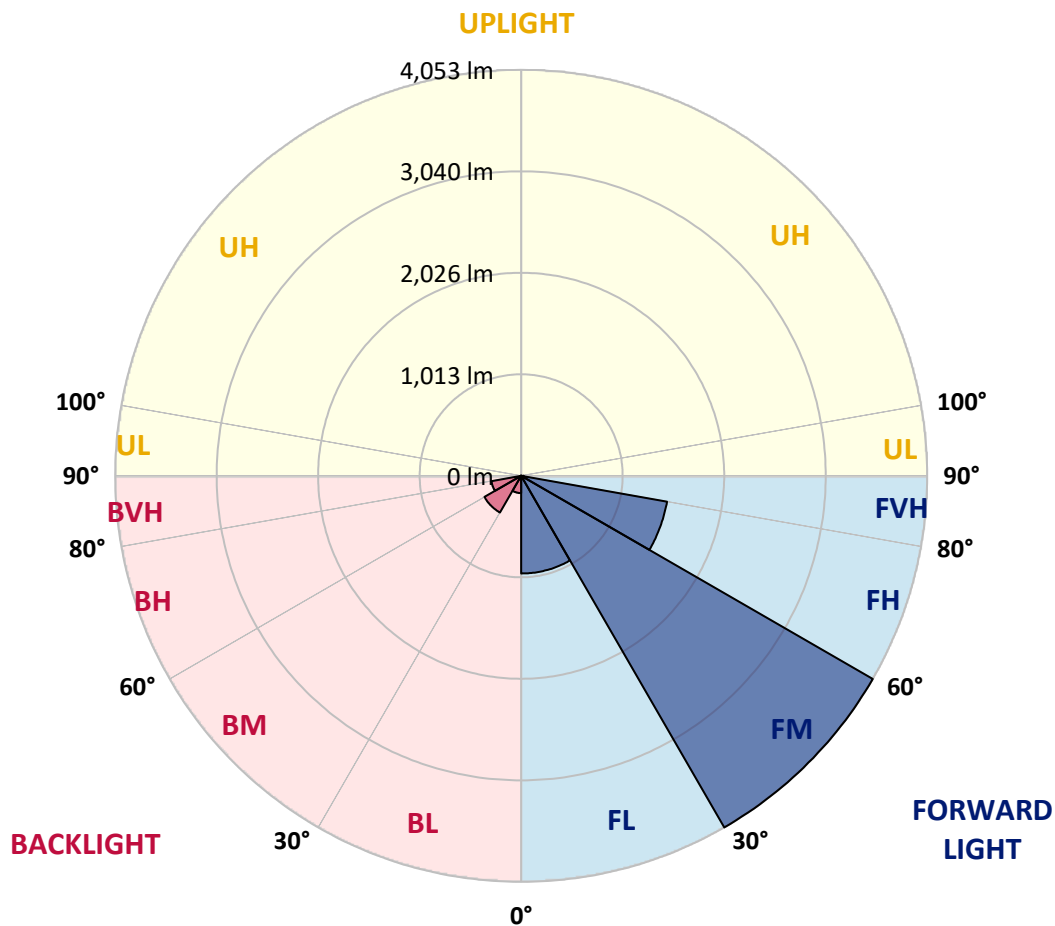
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	975.4	13.1			
FM	(30°-60°)	4052.8	54.5			
FH	(60°-80°)	1478.5	19.9			G1/1800
FVH	(80°-90°)	25.9	0.3			G1/100
BL	(0°-30°)	172.6	2.3	B1/500		
BM	(30°-60°)	423.2	5.7	B1/1000		
BH	(60°-80°)	301.8	4.1	B1/500		G1/500
BVH	(80°-90°)	6.8	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	983.1	983.1	983.1	983.1	983.1	983.1	983.1	983.1	983.1	983.1	983.1
2.5°	1218.2	1196.8	1221.2	1218.2	1196.8	1183.1	1140.3	1126.6	1076.2	1039.6	1007.5
5°	1468.5	1447.1	1468.5	1462.4	1431.9	1398.3	1328.1	1282.3	1192.2	1112.8	1041.1
7.5°	1676.1	1676.1	1685.3	1686.8	1650.2	1598.3	1511.3	1442.6	1315.9	1193.7	1079.3
10°	1900.5	1902.0	1921.9	1908.2	1859.3	1789.1	1679.2	1592.2	1439.5	1279.2	1115.9
12.5°	2140.2	2141.7	2147.8	2141.7	2083.7	1993.6	1860.8	1746.3	1570.8	1376.9	1166.3
15°	2379.9	2381.4	2389.0	2378.3	2314.2	2208.9	2057.8	1917.3	1709.7	1486.8	1227.3
17.5°	2604.2	2607.3	2613.4	2599.7	2532.5	2407.3	2253.1	2083.7	1857.8	1604.4	1296.0
20°	2805.8	2808.8	2813.4	2795.1	2727.9	2602.7	2436.3	2259.3	2008.9	1725.0	1370.8
22.5°	3008.8	3011.8	3019.5	2995.0	2920.2	2776.7	2613.4	2430.2	2169.2	1857.8	1457.8
25°	3268.3	3271.3	3277.4	3242.3	3140.1	2972.1	2799.6	2611.9	2343.2	2007.4	1564.7
27.5°	3648.4	3645.3	3645.3	3581.2	3405.7	3187.4	2987.4	2796.6	2531.0	2167.7	1682.2
30°	4118.6	4110.9	4106.3	4019.3	3769.0	3430.1	3179.7	2969.1	2711.1	2337.1	1808.9
32.5°	4539.9	4539.9	4530.7	4439.1	4173.5	3756.8	3384.3	3137.0	2885.1	2508.1	1940.2
35°	4788.7	4799.4	4794.8	4726.1	4532.2	4107.9	3660.6	3338.5	3068.3	2686.7	2097.4
37.5°	4822.3	4843.7	4848.2	4807.0	4704.7	4394.9	3967.4	3556.8	3269.8	2879.0	2250.1
40°	4686.4	4732.2	4732.2	4726.1	4689.5	4530.7	4225.4	3810.2	3477.4	3079.0	2404.3
42.5°	4477.3	4524.6	4518.5	4541.4	4532.2	4498.7	4370.4	4046.8	3685.0	3285.1	2544.7
45°	4204.0	4252.9	4240.7	4281.9	4300.2	4336.9	4355.2	4211.7	3889.6	3509.5	2701.9
47.5°	3765.9	3848.4	3866.7	3940.0	4016.3	4130.8	4217.8	4271.2	4080.4	3750.7	2872.9
50°	3118.7	3234.7	3271.3	3425.5	3634.7	3871.3	4011.7	4197.9	4214.7	3998.0	3057.6
52.5°	2233.3	2367.6	2424.1	2677.5	3108.0	3520.2	3773.6	4036.1	4266.6	4234.6	3257.6
55°	1444.1	1558.6	1613.5	1851.7	2424.1	3071.4	3492.7	3827.0	4237.6	4451.3	3486.6
57.5°	890.0	955.6	992.2	1196.8	1723.4	2495.9	3124.8	3634.7	4149.1	4639.1	3724.7
60°	599.9	638.1	656.4	752.6	1170.8	1865.4	2619.5	3433.2	4033.1	4765.8	3941.5
62.5°	398.4	410.6	429.0	488.5	772.4	1309.8	2012.0	3072.9	3946.1	4773.4	4101.8
65°	308.4	314.5	322.1	348.0	476.3	915.9	1415.1	2489.8	3816.3	4611.6	4152.1
67.5°	242.7	248.8	258.0	271.7	345.0	621.3	963.2	1824.2	3550.7	4358.2	4069.7
70°	190.8	195.4	201.5	213.7	268.7	450.3	636.6	1212.1	3014.9	4117.0	3810.2
72.5°	151.1	155.7	161.8	174.0	218.3	329.7	436.6	755.6	2324.9	3822.4	3311.0
75°	119.1	122.1	126.7	138.9	175.6	256.5	296.1	451.9	1580.0	3283.6	2579.8
77.5°	59.5	73.3	84.0	96.2	128.2	177.1	196.9	250.3	667.1	1685.3	1230.4
80°	35.1	42.7	45.8	53.4	84.0	106.9	106.9	100.8	210.7	647.2	502.2
82.5°	19.8	27.5	29.0	30.5	50.4	61.1	48.8	36.6	42.7	216.8	146.5
85°	6.1	9.2	10.7	12.2	16.8	18.3	16.8	15.3	12.2	21.4	13.7
87.5°	0.0	0.0	0.0	0.0	1.5	3.1	3.1	3.1	4.6	4.6	4.6
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°	983.1	983.1	983.1	983.1	983.1	983.1	983.1	983.1	983.1	983.1	983.1
2.5°	989.2	969.3	931.2	896.1	862.5	838.1	815.2	793.8	778.5	766.3	764.8
5°	1002.9	963.2	890.0	821.3	758.7	706.8	662.5	627.4	601.5	583.1	581.6
7.5°	1021.2	960.2	848.7	746.5	653.4	578.6	514.4	467.1	433.5	419.8	409.1
10°	1036.5	957.1	807.5	671.7	549.5	454.9	378.6	331.3	306.8	297.7	293.1
12.5°	1062.5	960.2	772.4	603.0	459.5	348.0	290.0	264.1	253.4	245.8	244.2
15°	1100.6	973.9	738.8	535.8	367.9	280.9	247.3	230.5	219.8	218.3	216.8
17.5°	1138.8	986.1	708.3	467.1	305.3	244.2	221.3	207.6	200.0	198.4	198.4
20°	1183.1	1001.4	674.7	401.5	261.0	219.8	201.5	190.8	181.7	180.1	180.1
22.5°	1235.0	1022.8	642.7	343.5	232.0	201.5	186.2	174.0	166.4	164.9	164.9
25°	1305.2	1054.8	616.7	300.7	212.2	186.2	172.5	161.8	155.7	152.7	152.7
27.5°	1383.0	1099.1	598.4	274.8	198.4	174.0	160.3	151.1	145.0	142.0	142.0
30°	1470.0	1147.9	586.2	264.1	190.8	163.3	151.1	142.0	134.3	132.8	132.8
32.5°	1566.2	1204.4	578.6	265.6	189.3	155.7	142.0	132.8	126.7	123.6	123.6
35°	1673.1	1267.0	574.0	274.8	192.3	149.6	134.3	125.2	119.1	116.0	116.0
37.5°	1792.1	1340.3	574.0	283.9	200.0	148.1	126.7	117.5	113.0	109.9	109.9
40°	1903.6	1418.1	580.1	294.6	207.6	148.1	120.6	113.0	106.9	103.8	103.8
42.5°	1990.6	1462.4	584.7	305.3	212.2	146.5	114.5	106.9	102.3	99.2	99.2
45°	2089.8	1509.7	575.5	309.9	212.2	143.5	109.9	102.3	97.7	94.6	94.6
47.5°	2199.7	1567.7	574.0	312.9	207.6	137.4	105.3	97.7	94.6	91.6	91.6
50°	2311.2	1631.9	577.0	311.4	201.5	128.2	99.2	94.6	90.1	87.0	87.0
52.5°	2437.9	1699.0	583.1	308.4	187.8	117.5	94.6	90.1	85.5	82.4	80.9
55°	2578.3	1772.3	595.3	302.3	169.4	106.9	90.1	85.5	79.4	76.3	74.8
57.5°	2740.1	1862.4	609.1	290.0	149.6	97.7	85.5	79.4	70.2	65.6	64.1
60°	2894.3	1964.6	624.3	261.0	129.8	88.5	80.9	71.7	62.6	59.5	58.0
62.5°	3039.3	2065.4	632.0	209.1	109.9	80.9	76.3	65.6	56.5	53.4	51.9
65°	3132.4	2175.3	615.2	142.0	90.1	74.8	70.2	61.1	51.9	47.3	47.3
67.5°	3138.5	2227.2	557.2	93.1	73.3	67.2	64.1	55.0	45.8	42.7	41.2
70°	2984.4	2149.3	425.9	73.3	61.1	58.0	58.0	48.8	39.7	36.6	35.1
72.5°	2630.2	1903.6	271.7	59.5	51.9	48.8	48.8	41.2	35.1	30.5	29.0
75°	2076.1	1468.5	145.0	48.8	42.7	41.2	38.2	33.6	29.0	26.0	24.4
77.5°	954.1	647.2	67.2	35.1	32.1	32.1	29.0	24.4	22.9	19.8	19.8
80°	377.1	219.8	33.6	22.9	21.4	21.4	21.4	16.8	16.8	13.7	12.2
82.5°	103.8	45.8	16.8	13.7	13.7	13.7	12.2	10.7	10.7	9.2	9.2
85°	10.7	7.6	7.6	7.6	7.6	6.1	6.1	4.6	3.1	3.1	3.1
87.5°	4.6	4.6	4.6	4.6	4.6	3.1	1.5	0.0	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)