

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: P800070

Luminaire Tested: **ARCH2-70-750-U-T3-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P800070
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-26)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-70-750-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 555mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7278 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

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

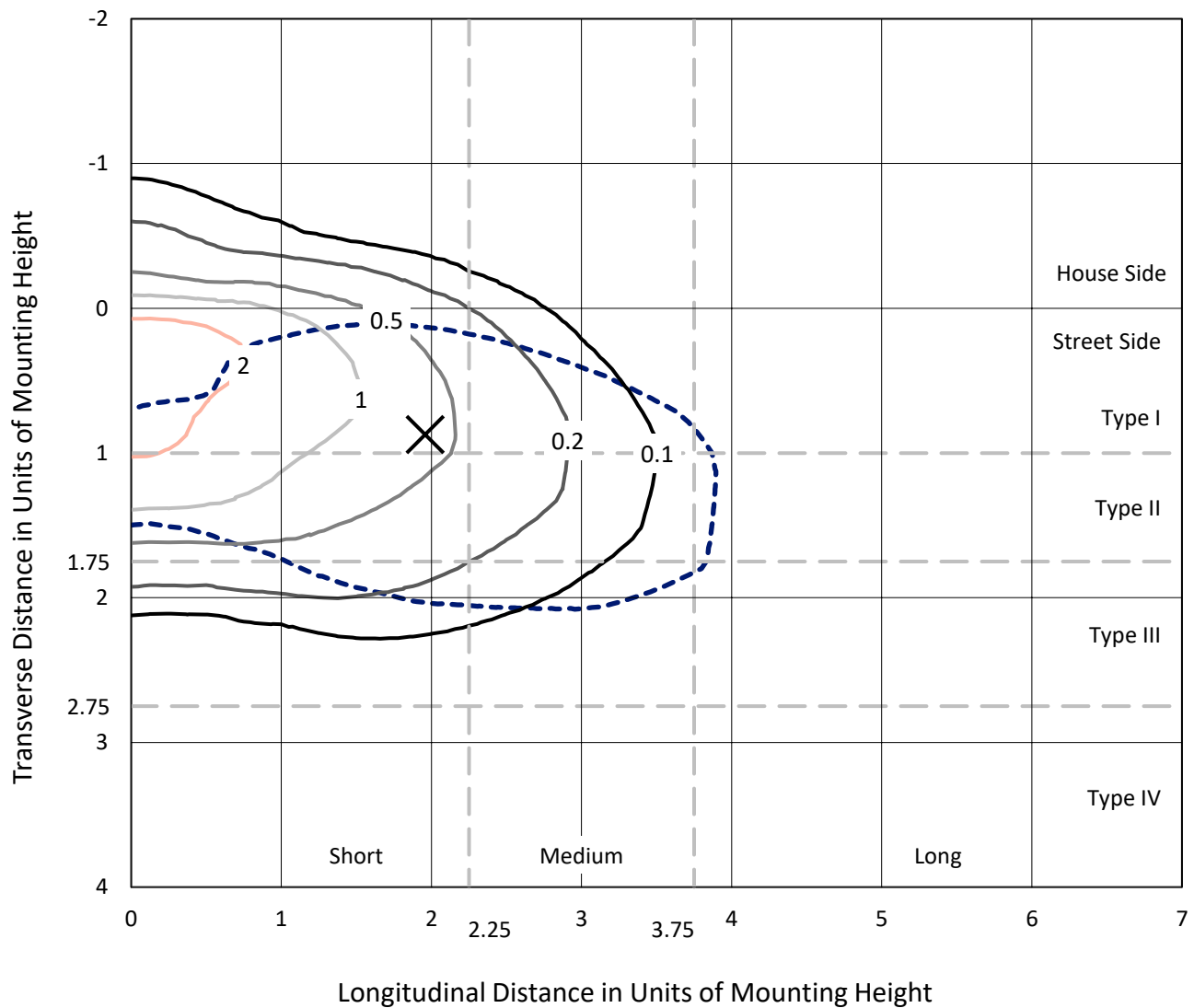


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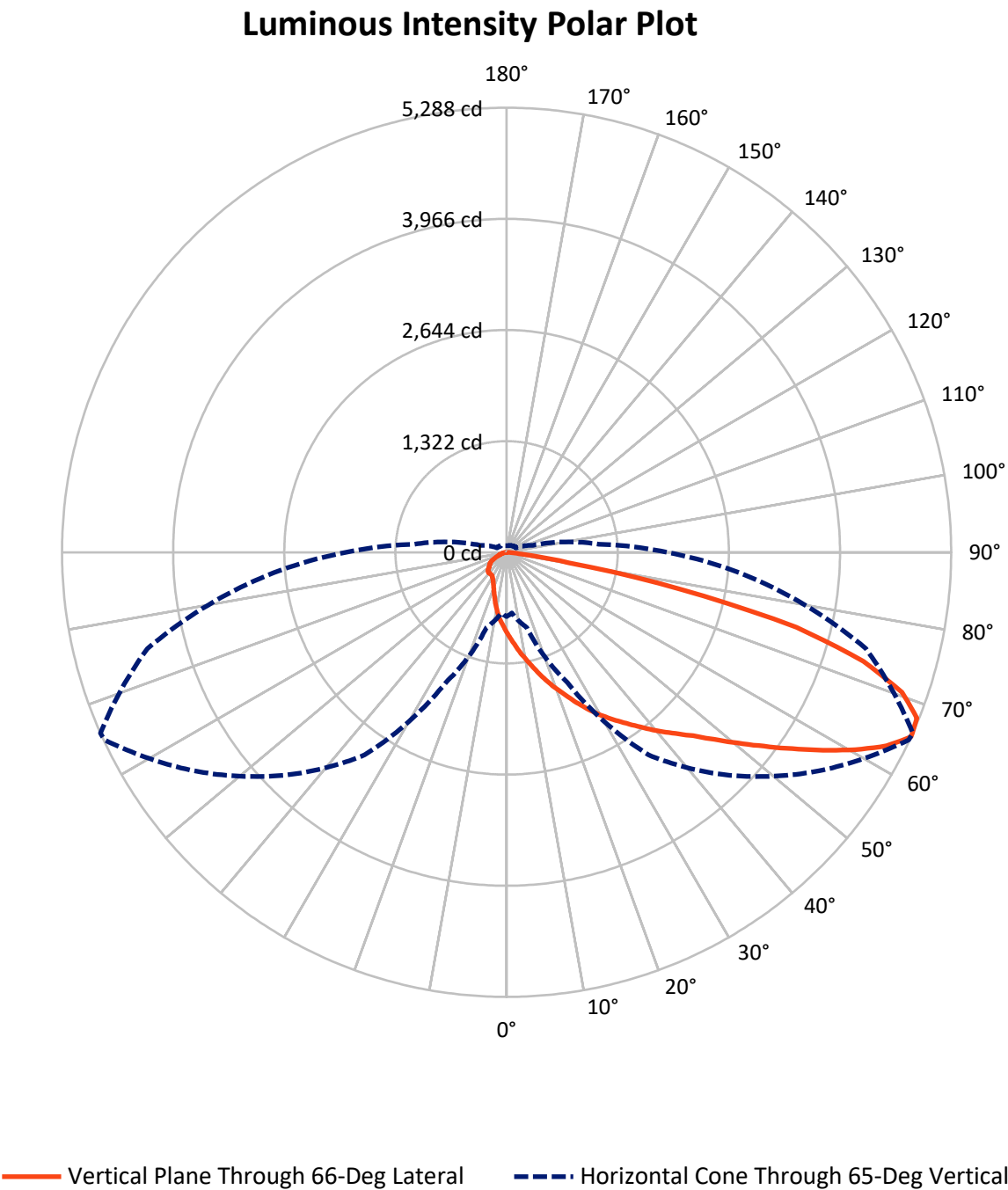
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
Type III - Short - N/A

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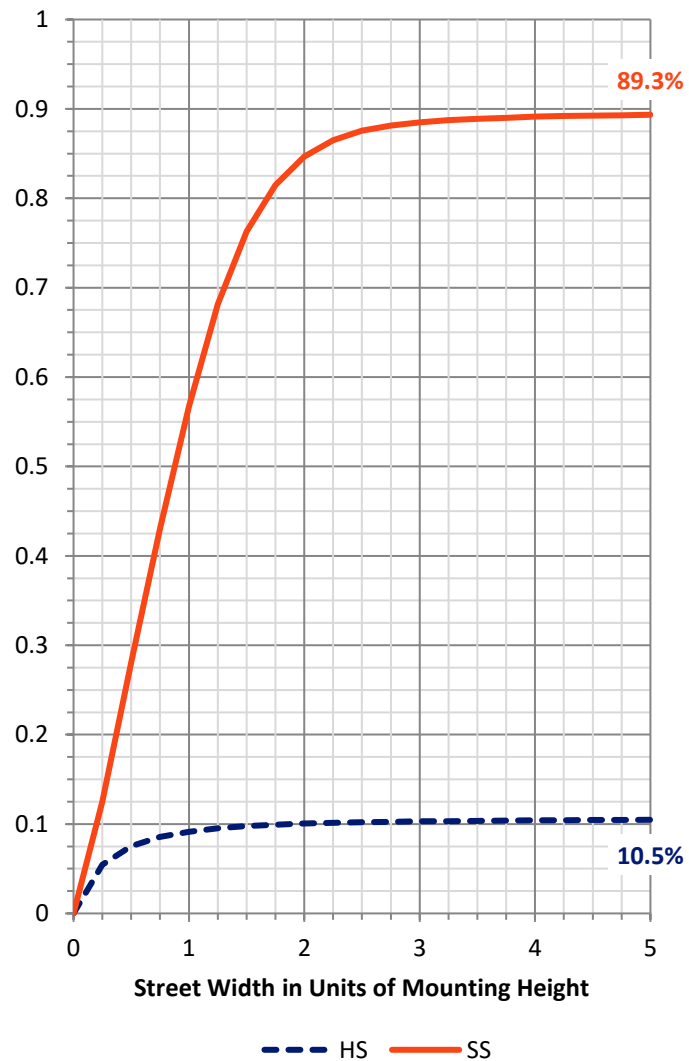
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	769.8	0.0	769.8
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	6508.2	0.0	6508.2
	% Fixture	89.4	0.0	89.4
Total	Lumens	7278.0	0.0	7278.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.1	1.3
10°-20°	309.9	4.3
20°-30°	560.6	7.7
30°-40°	876.7	12.0
40°-50°	1329.9	18.3
50°-60°	1689.7	23.2
60°-70°	1578.8	21.7
70°-80°	784.7	10.8
80°-90°	52.7	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°	7278.0	100.0
0°-180°	7278.0	100.0

Coefficient of Utilization



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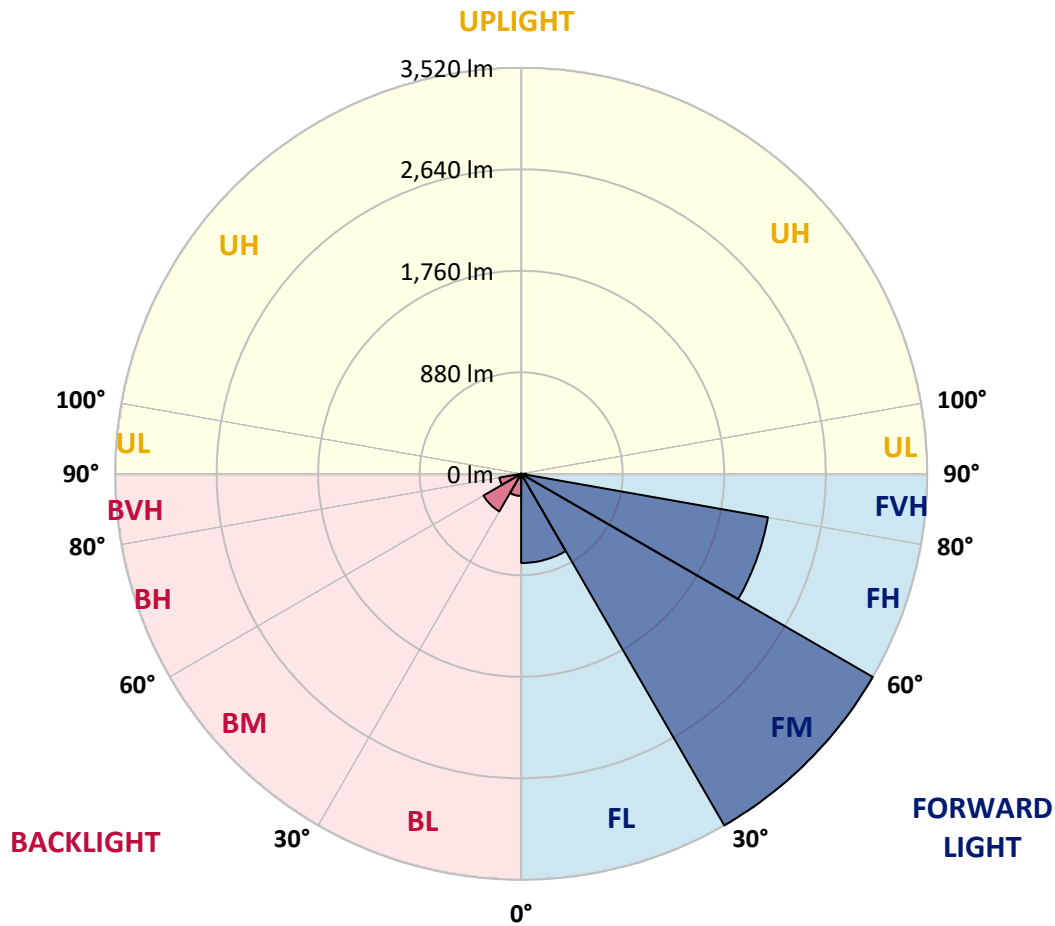
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	773.3	10.6			
FM	(30°-60°)	3519.7	48.4			
FH	(60°-80°)	2171.8	29.8			G2/5000
FVH	(80°-90°)	43.4	0.6			G1/100
BL	(0°-30°)	192.3	2.6	B1/500		
BM	(30°-60°)	376.5	5.2	B1/1000		
BH	(60°-80°)	191.7	2.6	B1/500		G1/500
BVH	(80°-90°)	9.3	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-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	963.2	963.2	963.2	963.2	963.2	963.2	963.2	963.2	963.2	963.2	963.2
2.5°	1125.0	1134.2	1138.7	1140.3	1105.2	1089.9	1074.6	1039.5	1031.9	1012.1	986.1
5°	1323.5	1335.7	1332.6	1326.5	1283.8	1234.9	1195.2	1129.6	1118.9	1071.6	1013.6
7.5°	1518.8	1529.5	1526.5	1503.6	1456.3	1387.6	1321.9	1225.8	1210.5	1134.2	1041.1
10°	1682.2	1691.3	1689.8	1666.9	1610.4	1526.5	1447.1	1318.9	1300.6	1192.2	1064.0
12.5°	1816.5	1828.7	1827.2	1811.9	1761.5	1670.0	1579.9	1425.7	1402.8	1262.4	1096.0
15°	1921.8	1937.1	1937.1	1931.0	1895.9	1819.6	1717.3	1543.3	1515.8	1343.3	1135.7
17.5°	1985.9	1998.2	2008.8	2019.5	1995.1	1937.1	1844.0	1660.8	1631.8	1422.7	1176.9
20°	2019.5	2031.7	2039.4	2062.3	2066.8	2037.8	1964.6	1776.8	1746.3	1512.7	1224.2
22.5°	2074.5	2085.2	2086.7	2106.5	2115.7	2123.3	2077.5	1891.3	1866.9	1612.0	1277.7
25°	2166.1	2178.3	2173.7	2182.9	2184.4	2193.5	2189.0	2022.6	1998.2	1724.9	1341.8
27.5°	2283.6	2298.9	2295.8	2286.7	2272.9	2265.3	2285.1	2155.4	2132.5	1837.9	1407.4
30°	2410.3	2428.6	2424.0	2405.7	2369.1	2337.0	2364.5	2280.5	2259.2	1953.9	1480.7
32.5°	2538.5	2559.9	2558.4	2527.8	2465.3	2410.3	2451.5	2398.1	2382.8	2079.1	1560.1
35°	2622.5	2650.0	2646.9	2628.6	2547.7	2500.4	2550.7	2518.7	2508.0	2231.7	1674.5
37.5°	2758.3	2787.3	2761.4	2715.6	2622.5	2598.1	2659.1	2654.5	2646.9	2393.5	1795.1
40°	3088.1	3130.8	3062.1	2874.3	2721.7	2700.3	2787.3	2805.7	2798.0	2553.8	1903.5
42.5°	3433.0	3497.1	3390.3	3130.8	2901.8	2824.0	2927.8	2953.7	2944.6	2691.2	2001.2
45°	3642.2	3669.6	3562.8	3361.3	3220.9	2973.6	3077.4	3120.1	3112.5	2856.0	2126.4
47.5°	3813.1	3802.4	3680.3	3544.5	3570.4	3184.2	3246.8	3330.8	3324.7	3037.7	2263.8
50°	3849.8	3825.3	3776.5	3691.0	3759.7	3397.9	3425.4	3570.4	3564.3	3239.2	2402.7
52.5°	3591.8	3559.7	3692.5	3764.3	3741.4	3553.6	3622.3	3833.0	3829.9	3457.5	2535.5
55°	2947.6	2921.7	3278.9	3649.8	3721.5	3663.5	3840.6	4106.2	4123.0	3689.5	2656.1
57.5°	2318.7	2291.2	2642.3	3362.8	3648.3	3764.3	4095.5	4419.1	4440.5	3941.3	2770.5
60°	1848.6	1807.3	2076.0	2911.0	3510.9	3842.1	4341.3	4762.6	4765.6	4171.8	2840.8
62.5°	1256.3	1210.5	1508.2	2338.6	3280.4	3854.3	4530.6	5058.7	5070.9	4344.3	2853.0
65°	763.2	725.1	926.6	1708.1	2940.0	3750.5	4533.6	5277.0	5287.7	4423.7	2779.7
67.5°	442.7	427.4	529.7	1064.0	2375.2	3471.2	4342.8	5243.4	5263.3	4390.1	2613.3
70°	258.0	256.4	294.6	526.6	1676.1	2917.1	3916.9	4961.0	4990.0	4214.6	2358.4
72.5°	189.3	192.3	207.6	282.4	970.8	2100.4	3317.0	4393.2	4437.5	3871.1	1995.1
75°	149.6	151.1	164.9	192.3	509.8	1187.6	2485.1	3526.1	3561.3	3259.0	1558.5
77.5°	111.4	114.5	125.2	135.9	236.6	545.0	1398.2	2172.2	2114.2	1789.0	752.6
80°	80.9	88.5	93.1	97.7	125.2	210.7	419.8	757.1	751.0	781.6	355.7
82.5°	51.9	58.0	62.6	65.6	74.8	100.7	125.2	169.4	183.2	303.8	142.0
85°	22.9	26.0	29.0	35.1	32.1	35.1	51.9	33.6	29.0	45.8	26.0
87.5°	0.0	0.0	4.6	7.6	6.1	3.1	9.2	6.1	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°	963.2	963.2	963.2	963.2	963.2	963.2	963.2	963.2	963.2	963.2	963.2
2.5°	972.4	955.6	920.5	886.9	867.0	841.1	818.2	796.8	795.3	789.2	778.5
5°	984.6	952.5	886.9	824.3	777.0	726.6	683.9	650.3	638.1	628.9	616.7
7.5°	996.8	946.4	848.7	757.1	682.3	612.1	561.7	515.9	502.2	490.0	482.4
10°	1001.4	935.7	804.5	682.3	584.6	509.8	456.4	422.8	410.6	404.5	399.9
12.5°	1015.1	929.6	763.2	612.1	499.2	430.5	392.3	372.5	367.9	363.3	358.7
15°	1033.4	929.6	722.0	543.4	432.0	377.0	354.1	340.4	337.4	335.8	332.8
17.5°	1053.3	929.6	682.3	485.4	383.1	341.9	325.1	317.5	316.0	314.5	312.9
20°	1080.7	931.1	639.6	435.0	348.0	316.0	302.2	293.1	291.6	290.0	290.0
22.5°	1108.2	934.2	598.4	396.9	325.1	296.1	279.3	270.2	267.1	267.1	267.1
25°	1143.3	943.4	560.2	364.8	305.3	277.8	256.4	248.8	247.3	247.3	245.8
27.5°	1184.5	954.0	526.6	340.4	285.5	256.4	235.1	227.4	224.4	224.4	222.9
30°	1228.8	964.7	499.2	322.1	265.6	235.1	215.2	206.1	203.0	204.5	203.0
32.5°	1277.7	980.0	477.8	309.9	247.3	216.8	198.4	187.8	186.2	186.2	184.7
35°	1360.1	1022.7	474.7	303.8	232.0	203.0	184.7	174.0	172.5	172.5	171.0
37.5°	1448.6	1071.6	488.5	300.7	219.8	190.8	174.0	163.3	161.8	161.8	161.8
40°	1523.4	1108.2	503.7	300.7	212.2	180.1	164.9	155.7	155.7	155.7	155.7
42.5°	1573.8	1111.3	500.7	300.7	206.1	172.5	158.8	149.6	149.6	151.1	149.6
45°	1648.6	1126.5	488.5	296.1	201.5	166.4	152.6	145.0	143.5	145.0	145.0
47.5°	1737.1	1154.0	476.3	277.8	200.0	160.3	148.1	138.9	137.4	138.9	137.4
50°	1821.1	1178.4	470.2	253.4	196.9	154.2	142.0	132.8	131.3	132.8	131.3
52.5°	1891.3	1189.1	459.5	236.6	189.3	148.1	135.9	126.7	123.6	125.2	125.2
55°	1947.8	1186.1	444.2	222.9	175.5	142.0	128.2	120.6	116.0	116.0	114.5
57.5°	1999.7	1187.6	430.5	209.1	160.3	132.8	122.1	113.0	106.9	105.3	103.8
60°	2019.5	1180.0	406.0	190.8	145.0	125.2	114.5	103.8	97.7	96.2	94.6
62.5°	1992.0	1152.5	374.0	158.8	131.3	116.0	106.9	96.2	90.1	88.5	87.0
65°	1914.2	1100.6	325.1	125.2	119.1	105.3	97.7	90.1	82.4	79.4	77.9
67.5°	1781.4	1025.8	264.1	100.7	105.3	96.2	91.6	82.4	73.3	70.2	68.7
70°	1592.1	926.6	198.4	85.5	93.1	85.5	82.4	73.3	65.6	62.6	61.1
72.5°	1326.5	766.3	138.9	73.3	80.9	74.8	71.7	65.6	58.0	53.4	53.4
75°	1002.9	549.5	91.6	62.6	67.2	64.1	59.5	55.0	50.4	47.3	45.8
77.5°	432.0	213.7	56.5	47.3	55.0	53.4	47.3	44.3	42.7	39.7	39.7
80°	186.2	87.0	35.1	35.1	39.7	38.2	36.6	33.6	33.6	32.1	30.5
82.5°	68.7	35.1	21.4	26.0	29.0	26.0	26.0	26.0	26.0	24.4	24.4
85°	16.8	10.7	10.7	15.3	16.8	15.3	16.8	15.3	15.3	15.3	13.7
87.5°	4.6	4.6	6.1	6.1	6.1	6.1	6.1	4.6	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)