

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: P799222

Luminaire Tested: **ARCH2-100-722-U-T3-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799222
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: ARCH2-100-722-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 760mA 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: 7698 lumens
Efficiency: N/A
Efficacy: 74.5 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): 103.3
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



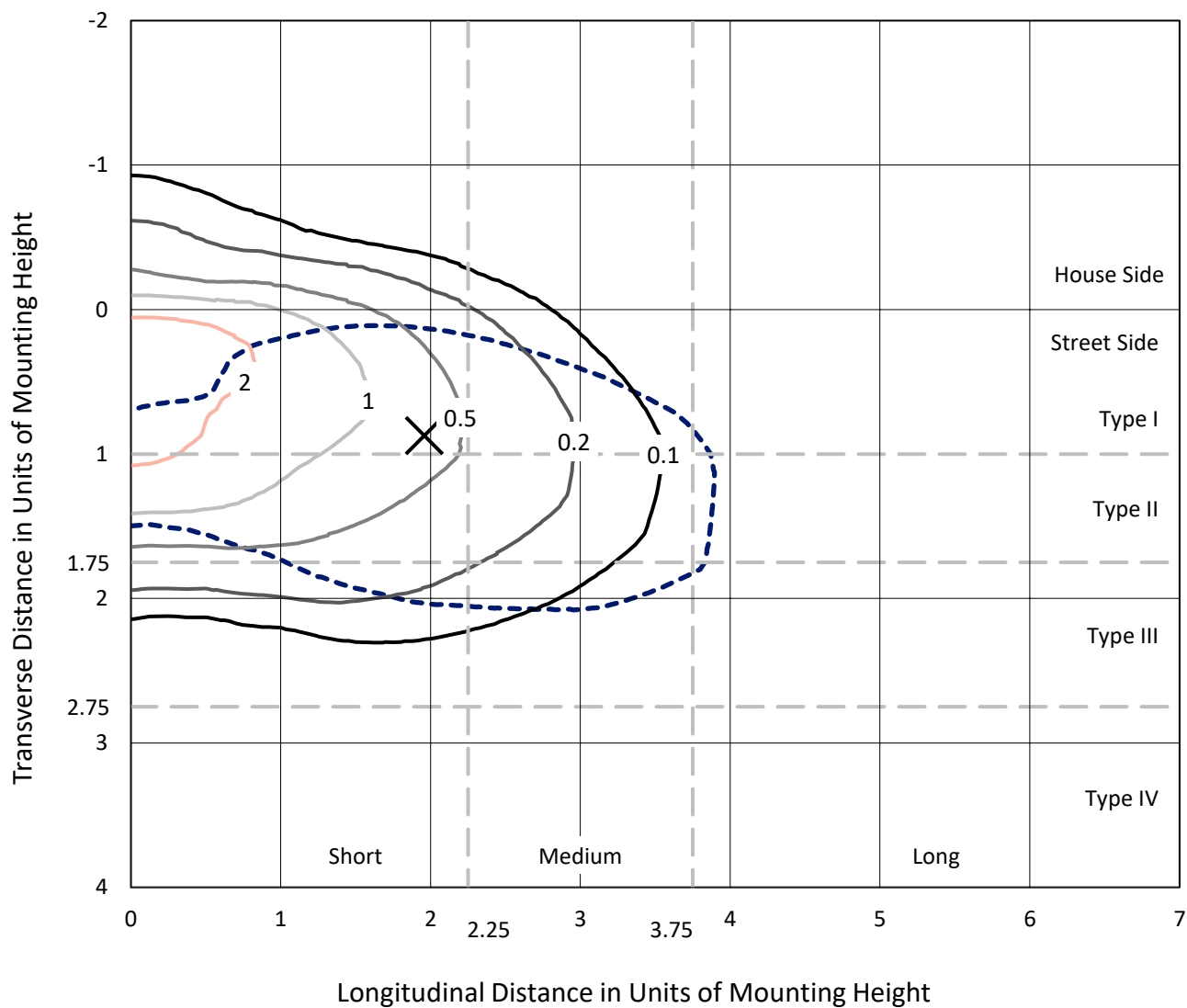
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Iso-Footcandle Lines of Horizontal Illumination

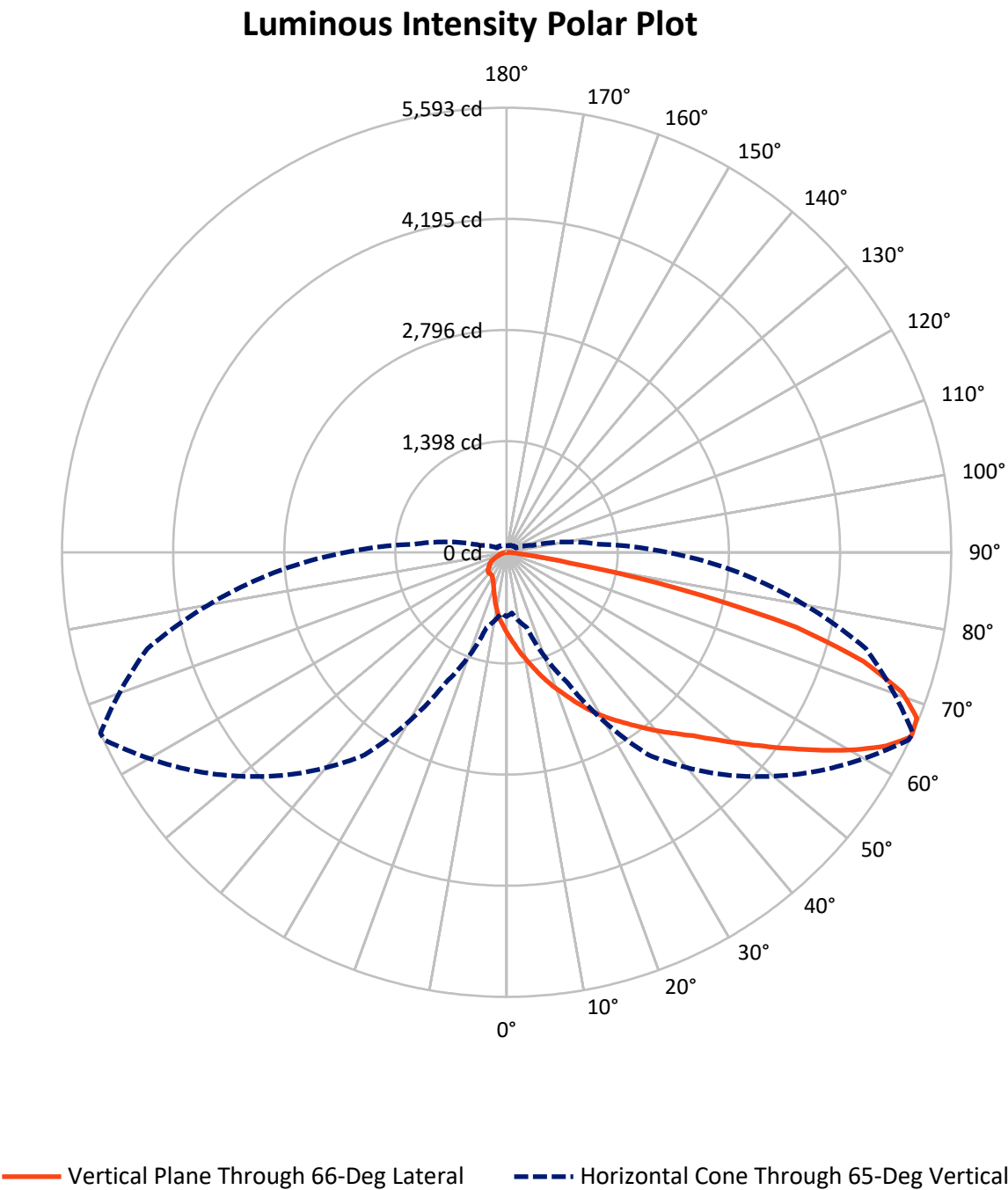
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
Type III - Short - N/A

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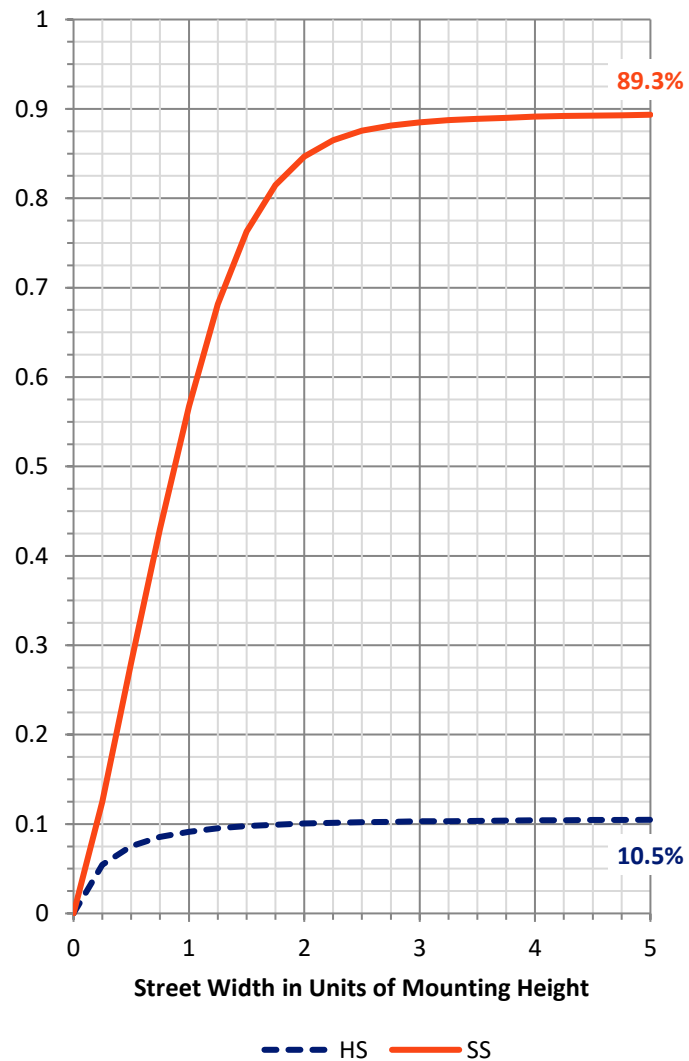
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	814.2	0.0	814.2
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	6883.8	0.0	6883.8
	% Fixture	89.4	0.0	89.4
Total	Lumens	7698.0	0.0	7698.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.6	1.3
10°-20°	327.7	4.3
20°-30°	593.0	7.7
30°-40°	927.3	12.0
40°-50°	1406.6	18.3
50°-60°	1787.2	23.2
60°-70°	1669.9	21.7
70°-80°	829.9	10.8
80°-90°	55.8	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°	7698.0	100.0
0°-180°	7698.0	100.0

Coefficient of Utilization



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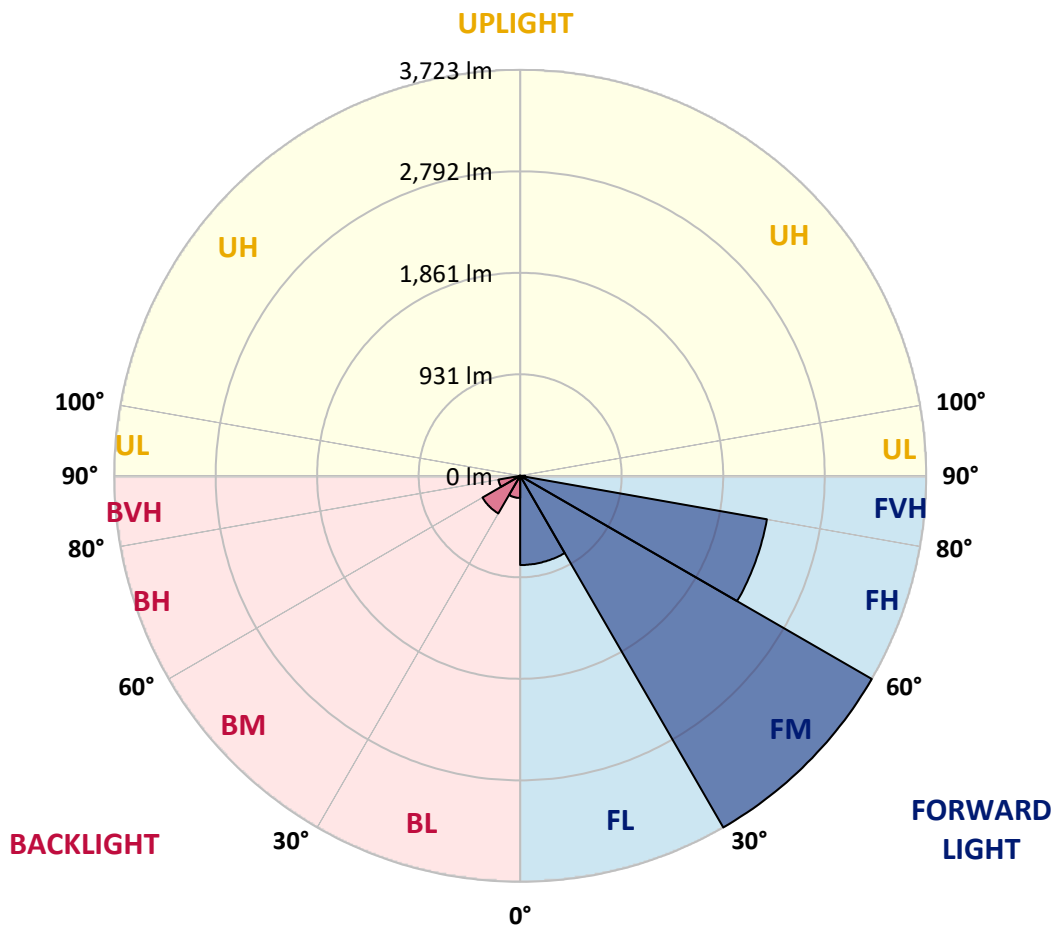
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	817.9	10.6			
FM	(30°-60°)	3722.8	48.4			
FH	(60°-80°)	2297.1	29.8			G2/5000
FVH	(80°-90°)	45.9	0.6			G1/100
BL	(0°-30°)	203.4	2.6	B1/500		
BM	(30°-60°)	398.2	5.2	B1/1000		
BH	(60°-80°)	202.8	2.6	B1/500		G1/500
BVH	(80°-90°)	9.9	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°	1018.8	1018.8	1018.8	1018.8	1018.8	1018.8	1018.8	1018.8	1018.8	1018.8	1018.8
2.5°	1189.9	1199.6	1204.5	1206.1	1168.9	1152.8	1136.7	1099.5	1091.4	1070.5	1043.0
5°	1399.8	1412.7	1409.5	1403.1	1357.8	1306.2	1264.2	1194.8	1183.5	1133.4	1072.1
7.5°	1606.5	1617.8	1614.6	1590.3	1540.3	1467.6	1398.2	1296.5	1280.3	1199.6	1101.1
10°	1779.2	1788.9	1787.3	1763.1	1703.4	1614.6	1530.6	1395.0	1375.6	1261.0	1125.3
12.5°	1921.3	1934.2	1932.6	1916.5	1863.2	1766.3	1671.1	1508.0	1483.8	1335.2	1159.3
15°	2032.7	2048.9	2048.9	2042.4	2005.3	1924.6	1816.4	1632.3	1603.3	1420.8	1201.2
17.5°	2100.5	2113.5	2124.8	2136.1	2110.2	2048.9	1950.4	1756.6	1726.0	1504.8	1244.8
20°	2136.1	2149.0	2157.1	2181.3	2186.1	2155.4	2077.9	1879.3	1847.1	1600.0	1294.9
22.5°	2194.2	2205.5	2207.1	2228.1	2237.8	2245.9	2197.4	2000.4	1974.6	1705.0	1351.4
25°	2291.1	2304.0	2299.1	2308.8	2310.4	2320.1	2315.3	2139.3	2113.5	1824.5	1419.2
27.5°	2415.4	2431.5	2428.3	2418.6	2404.1	2396.0	2417.0	2279.8	2255.5	1943.9	1488.6
30°	2549.4	2568.8	2563.9	2544.5	2505.8	2471.9	2501.0	2412.2	2389.6	2066.6	1566.1
32.5°	2685.0	2707.6	2706.0	2673.7	2607.5	2549.4	2593.0	2536.5	2520.3	2199.0	1650.1
35°	2773.8	2802.9	2799.6	2780.3	2694.7	2644.7	2697.9	2664.0	2652.7	2360.5	1771.2
37.5°	2917.5	2948.2	2920.7	2872.3	2773.8	2748.0	2812.6	2807.7	2799.6	2531.6	1898.7
40°	3266.3	3311.5	3238.8	3040.2	2878.8	2856.2	2948.2	2967.6	2959.5	2701.2	2013.4
42.5°	3631.1	3699.0	3585.9	3311.5	3069.3	2986.9	3096.7	3124.2	3114.5	2846.5	2116.7
45°	3852.3	3881.4	3768.4	3555.3	3406.7	3145.2	3255.0	3300.2	3292.1	3020.8	2249.1
47.5°	4033.2	4021.9	3892.7	3749.0	3776.5	3368.0	3434.2	3523.0	3516.5	3213.0	2394.4
50°	4071.9	4046.1	3994.4	3904.0	3976.7	3594.0	3623.1	3776.5	3770.0	3426.1	2541.3
52.5°	3799.1	3765.2	3905.6	3981.5	3957.3	3758.7	3831.4	4054.2	4050.9	3657.0	2681.8
55°	3117.7	3090.3	3468.1	3860.4	3936.3	3874.9	4062.2	4343.2	4360.9	3902.4	2809.3
57.5°	2452.5	2423.5	2794.8	3556.9	3858.8	3981.5	4331.9	4674.2	4696.8	4168.8	2930.4
60°	1955.2	1911.6	2195.8	3079.0	3713.5	4063.9	4591.8	5037.4	5040.7	4412.6	3004.7
62.5°	1328.8	1280.3	1595.2	2473.5	3469.7	4076.8	4792.0	5350.7	5363.6	4595.0	3017.6
65°	807.3	766.9	980.0	1806.7	3109.6	3967.0	4795.2	5581.5	5592.8	4679.0	2940.1
67.5°	468.2	452.1	560.3	1125.3	2512.3	3671.5	4593.4	5546.0	5567.0	4643.5	2764.1
70°	272.9	271.2	311.6	557.0	1772.8	3085.4	4143.0	5247.3	5278.0	4457.8	2494.5
72.5°	200.2	203.4	219.6	298.7	1026.9	2221.6	3508.4	4646.7	4693.5	4094.5	2110.2
75°	158.2	159.8	174.4	203.4	539.3	1256.1	2628.5	3729.6	3766.8	3447.1	1648.5
77.5°	117.9	121.1	132.4	143.7	250.3	576.4	1478.9	2297.5	2236.2	1892.3	796.0
80°	85.6	93.6	98.5	103.3	132.4	222.8	444.0	800.8	794.4	826.7	376.2
82.5°	54.9	61.4	66.2	69.4	79.1	106.6	132.4	179.2	193.7	321.3	150.2
85°	24.2	27.4	30.7	37.1	33.9	37.1	54.9	35.5	30.7	48.4	27.4
87.5°	0.0	0.0	4.8	8.1	6.5	3.2	9.7	6.5	4.8	4.8	4.8
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°	1018.8	1018.8	1018.8	1018.8	1018.8	1018.8	1018.8	1018.8	1018.8	1018.8	1018.8
2.5°	1028.5	1010.7	973.6	938.1	917.1	889.6	865.4	842.8	841.2	834.7	823.4
5°	1041.4	1007.5	938.1	871.9	821.8	768.5	723.3	687.8	674.9	665.2	652.3
7.5°	1054.3	1001.0	897.7	800.8	721.7	647.4	594.2	545.7	531.2	518.3	510.2
10°	1059.2	989.7	850.9	721.7	618.4	539.3	482.8	447.2	434.3	427.9	423.0
12.5°	1073.7	983.3	807.3	647.4	528.0	455.3	414.9	394.0	389.1	384.3	379.4
15°	1093.1	983.3	763.7	574.8	456.9	398.8	374.6	360.0	356.8	355.2	352.0
17.5°	1114.0	983.3	721.7	513.4	405.3	361.7	343.9	335.8	334.2	332.6	331.0
20°	1143.1	984.9	676.5	460.1	368.1	334.2	319.7	310.0	308.4	306.8	306.8
22.5°	1172.2	988.1	632.9	419.8	343.9	313.2	295.5	285.8	282.5	282.5	282.5
25°	1209.3	997.8	592.5	385.9	322.9	293.9	271.2	263.2	261.6	261.6	259.9
27.5°	1252.9	1009.1	557.0	360.0	301.9	271.2	248.6	240.6	237.3	237.3	235.7
30°	1299.7	1020.4	528.0	340.7	280.9	248.6	227.7	218.0	214.7	216.4	214.7
32.5°	1351.4	1036.5	505.4	327.8	261.6	229.3	209.9	198.6	197.0	197.0	195.4
35°	1438.6	1081.8	502.1	321.3	245.4	214.7	195.4	184.1	182.4	182.4	180.8
37.5°	1532.2	1133.4	516.7	318.1	232.5	201.8	184.1	172.8	171.1	171.1	171.1
40°	1611.3	1172.2	532.8	318.1	224.4	190.5	174.4	164.7	164.7	164.7	164.7
42.5°	1664.6	1175.4	529.6	318.1	218.0	182.4	167.9	158.2	158.2	159.8	158.2
45°	1743.7	1191.5	516.7	313.2	213.1	176.0	161.5	153.4	151.8	153.4	153.4
47.5°	1837.4	1220.6	503.7	293.9	211.5	169.5	156.6	146.9	145.3	146.9	145.3
50°	1926.2	1246.4	497.3	268.0	208.3	163.1	150.2	140.5	138.9	140.5	138.9
52.5°	2000.4	1257.7	486.0	250.3	200.2	156.6	143.7	134.0	130.8	132.4	132.4
55°	2060.2	1254.5	469.8	235.7	185.7	150.2	135.6	127.6	122.7	122.7	121.1
57.5°	2115.1	1256.1	455.3	221.2	169.5	140.5	129.2	119.5	113.0	111.4	109.8
60°	2136.1	1248.1	429.5	201.8	153.4	132.4	121.1	109.8	103.3	101.7	100.1
62.5°	2107.0	1219.0	395.6	167.9	138.9	122.7	113.0	101.7	95.3	93.6	92.0
65°	2024.7	1164.1	343.9	132.4	125.9	111.4	103.3	95.3	87.2	84.0	82.3
67.5°	1884.2	1085.0	279.3	106.6	111.4	101.7	96.9	87.2	77.5	74.3	72.7
70°	1684.0	980.0	209.9	90.4	98.5	90.4	87.2	77.5	69.4	66.2	64.6
72.5°	1403.1	810.5	146.9	77.5	85.6	79.1	75.9	69.4	61.4	56.5	56.5
75°	1060.8	581.2	96.9	66.2	71.0	67.8	63.0	58.1	53.3	50.1	48.4
77.5°	456.9	226.0	59.7	50.1	58.1	56.5	50.1	46.8	45.2	42.0	42.0
80°	197.0	92.0	37.1	37.1	42.0	40.4	38.7	35.5	35.5	33.9	32.3
82.5°	72.7	37.1	22.6	27.4	30.7	27.4	27.4	27.4	27.4	25.8	25.8
85°	17.8	11.3	11.3	16.1	17.8	16.1	17.8	16.1	16.1	16.1	14.5
87.5°	4.8	4.8	6.5	6.5	6.5	6.5	6.5	4.8	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)