

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: P836814

Luminaire Tested: **ARCH3-80-722-U-T3-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836814
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-80-722-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 650mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7898 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 81.9
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



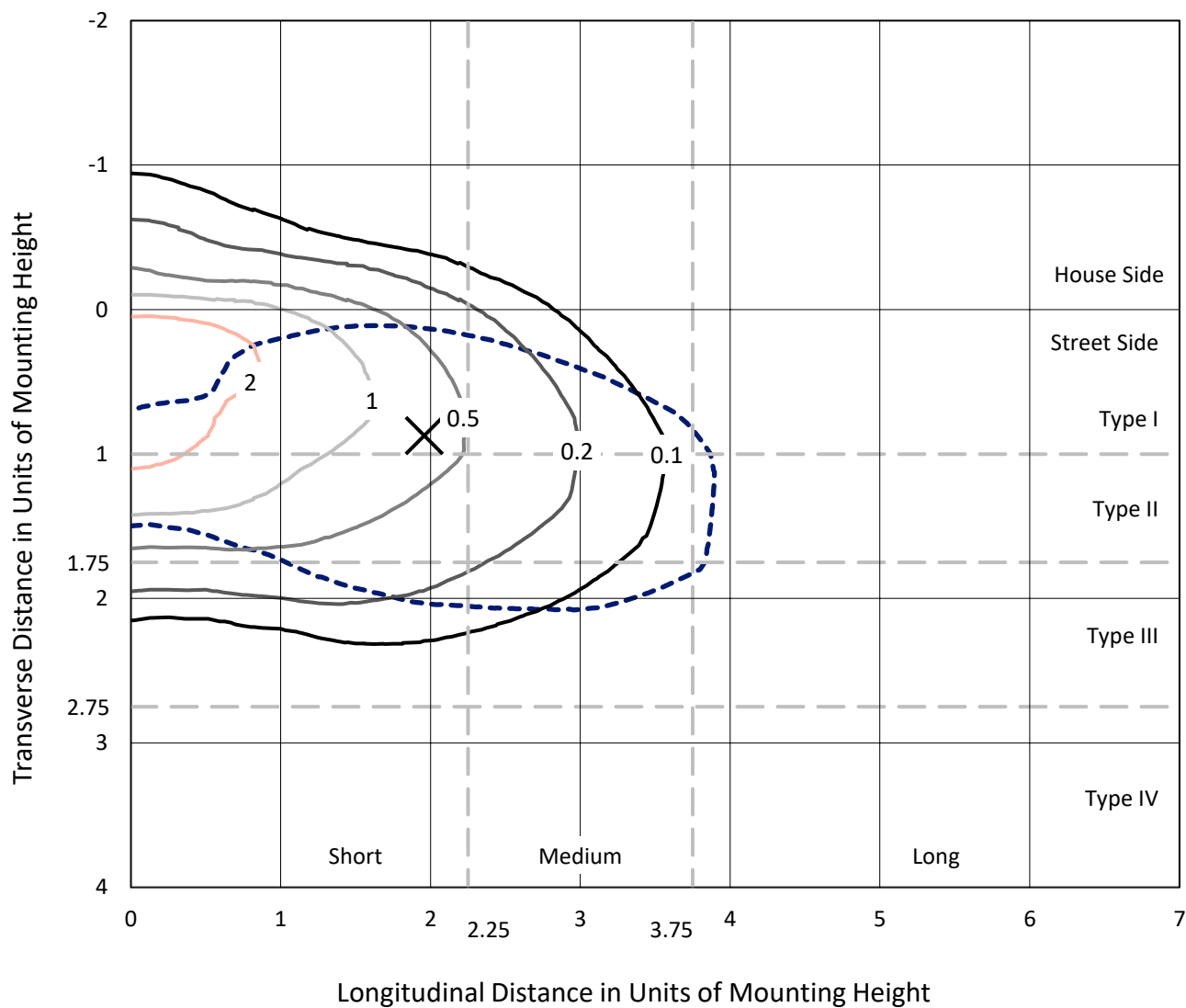
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



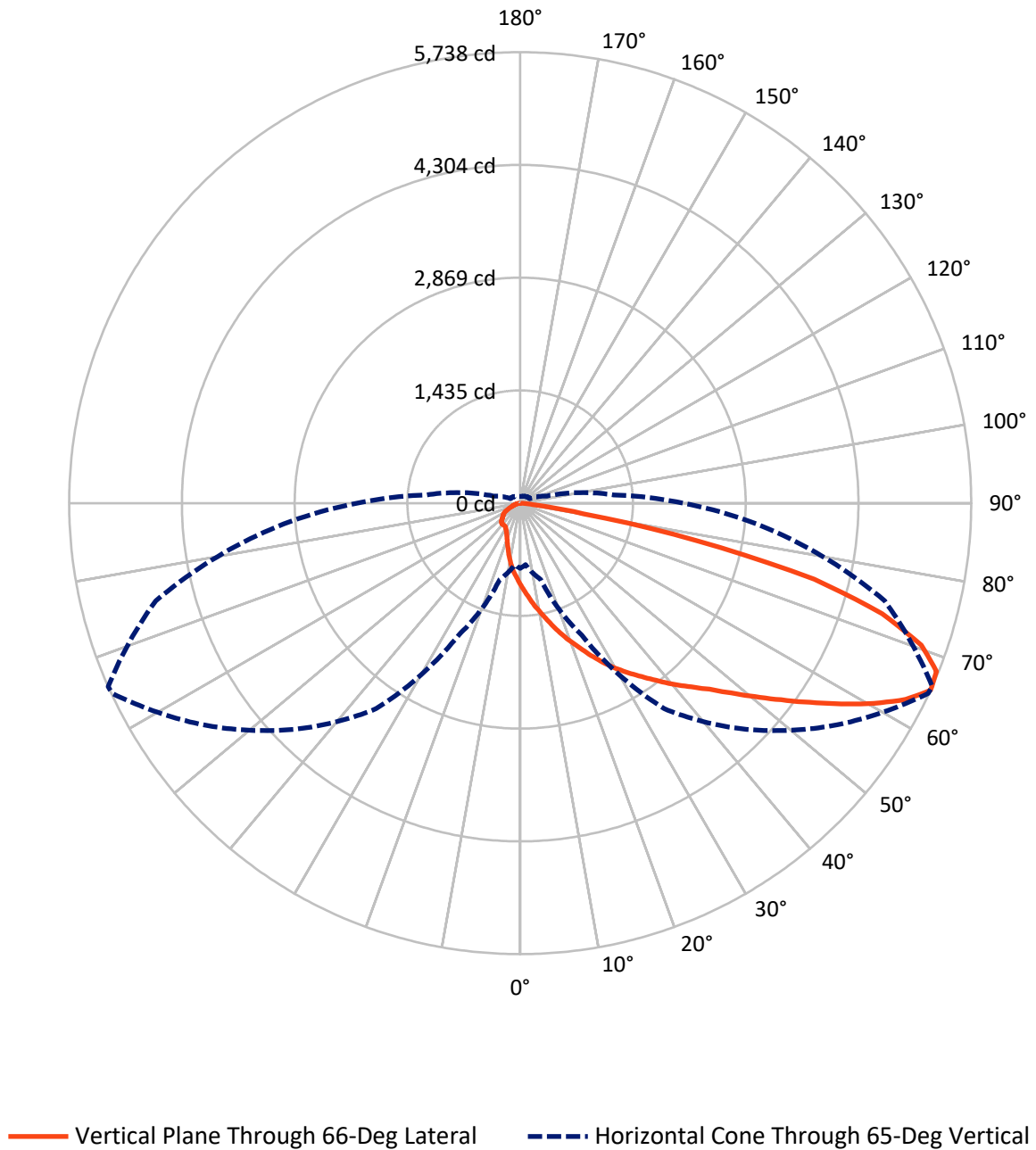
Based on 25 foot mounting height. Maximum calculated value = 3 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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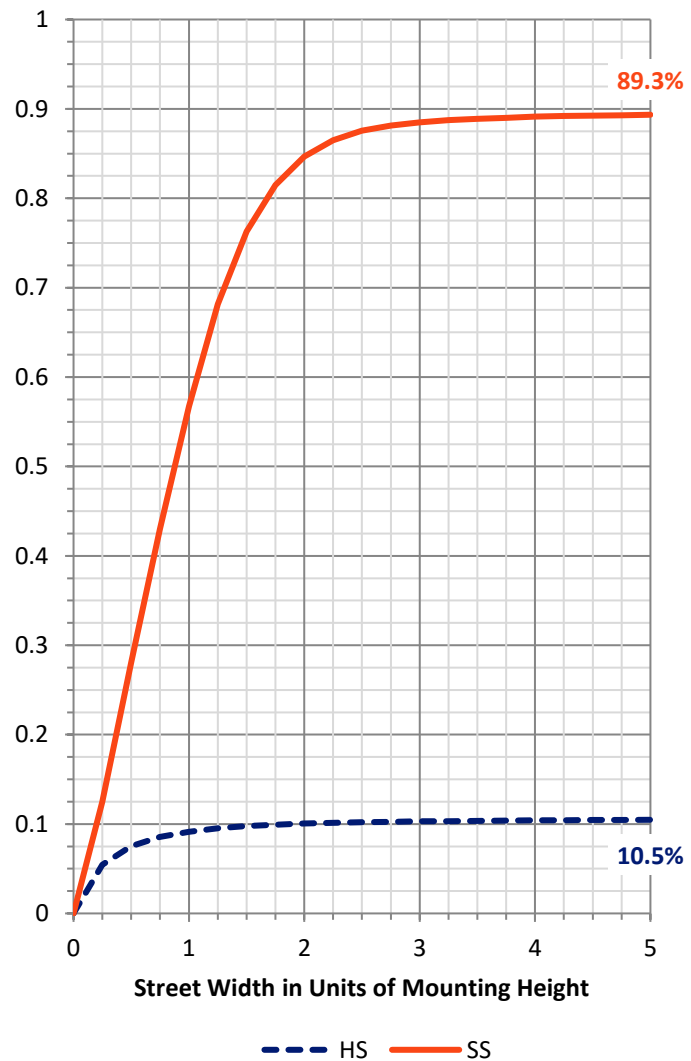
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	835.4	0.0	835.4
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	7062.6	0.0	7062.6
	% Fixture	89.4	0.0	89.4
Total	Lumens	7898.0	0.0	7898.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.2	1.3
10°-20°	336.3	4.3
20°-30°	608.4	7.7
30°-40°	951.3	12.0
40°-50°	1443.2	18.3
50°-60°	1833.6	23.2
60°-70°	1713.3	21.7
70°-80°	851.5	10.8
80°-90°	57.2	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°	7898.0	100.0
0°-180°	7898.0	100.0

Coefficient of Utilization



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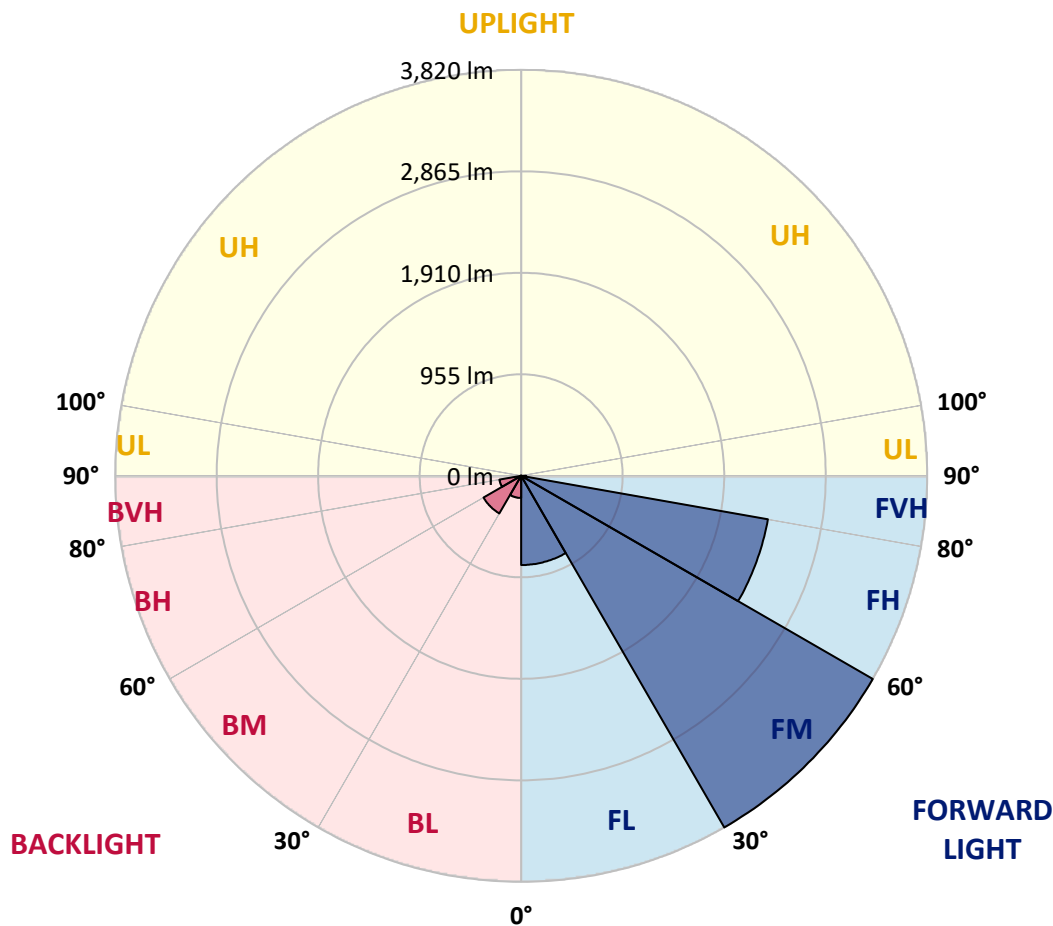
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	839.2	10.6			
FM	(30°-60°)	3819.6	48.4			
FH	(60°-80°)	2356.8	29.8			G2/5000
FVH	(80°-90°)	47.1	0.6			G1/100
BL	(0°-30°)	208.6	2.6	B1/500		
BM	(30°-60°)	408.6	5.2	B1/1000		
BH	(60°-80°)	208.0	2.6	B1/500		G1/500
BVH	(80°-90°)	10.1	0.1			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°	45°	55°	65°	66°	75°	85°
0°	1045.3	1045.3	1045.3	1045.3	1045.3	1045.3	1045.3	1045.3	1045.3	1045.3	1045.3
2.5°	1220.8	1230.8	1235.8	1237.4	1199.3	1182.7	1166.2	1128.1	1119.8	1098.3	1070.1
5°	1436.2	1449.4	1446.1	1439.5	1393.1	1340.1	1297.0	1225.8	1214.2	1162.9	1099.9
7.5°	1648.2	1659.8	1656.5	1631.7	1580.3	1505.8	1434.5	1330.2	1313.6	1230.8	1129.7
10°	1825.5	1835.4	1833.8	1808.9	1747.6	1656.5	1570.4	1431.2	1411.3	1293.7	1154.6
12.5°	1971.2	1984.5	1982.8	1966.3	1911.6	1812.2	1714.5	1547.2	1522.3	1369.9	1189.4
15°	2085.5	2102.1	2102.1	2095.5	2057.4	1974.6	1863.6	1674.7	1644.9	1457.7	1232.4
17.5°	2155.1	2168.4	2180.0	2191.6	2165.1	2102.1	2001.1	1802.3	1770.8	1543.9	1277.2
20°	2191.6	2204.8	2213.1	2237.9	2242.9	2211.4	2131.9	1928.2	1895.0	1641.6	1328.5
22.5°	2251.2	2262.8	2264.4	2286.0	2295.9	2304.2	2254.5	2052.4	2025.9	1749.3	1386.5
25°	2350.6	2363.8	2358.9	2368.8	2370.5	2380.4	2375.4	2194.9	2168.4	1871.9	1456.1
27.5°	2478.1	2494.7	2491.4	2481.4	2466.5	2458.3	2479.8	2339.0	2314.1	1994.4	1527.3
30°	2615.6	2635.5	2630.5	2610.7	2570.9	2536.1	2565.9	2474.8	2451.6	2120.3	1606.8
32.5°	2754.8	2778.0	2776.3	2743.2	2675.3	2615.6	2660.4	2602.4	2585.8	2256.2	1693.0
35°	2845.9	2875.7	2872.4	2852.5	2764.7	2713.4	2768.0	2733.2	2721.6	2421.8	1817.2
37.5°	2993.3	3024.8	2996.6	2946.9	2845.9	2819.4	2885.6	2880.7	2872.4	2597.4	1948.1
40°	3351.1	3397.5	3323.0	3119.2	2953.6	2930.4	3024.8	3044.7	3036.4	2771.3	2065.7
42.5°	3725.5	3795.1	3679.1	3397.5	3149.0	3064.5	3177.2	3205.3	3195.4	2920.4	2171.7
45°	3952.4	3982.2	3866.3	3647.6	3495.2	3226.9	3339.5	3385.9	3377.6	3099.3	2307.5
47.5°	4138.0	4126.4	3993.8	3846.4	3874.6	3455.5	3523.4	3614.5	3607.9	3296.5	2456.6
50°	4177.7	4151.2	4098.2	4005.4	4080.0	3687.4	3717.2	3874.6	3867.9	3515.1	2607.3
52.5°	3897.8	3863.0	4007.1	4085.0	4060.1	3856.4	3930.9	4159.5	4156.2	3752.0	2751.5
55°	3198.7	3170.6	3558.2	3960.7	4038.6	3975.6	4167.8	4456.0	4474.2	4003.8	2882.3
57.5°	2516.2	2486.4	2867.4	3649.3	3959.1	4085.0	4444.4	4795.6	4818.8	4277.1	3006.6
60°	2006.0	1961.3	2252.9	3159.0	3810.0	4169.4	4711.1	5168.3	5171.6	4527.2	3082.8
62.5°	1363.3	1313.6	1636.6	2537.8	3559.8	4182.7	4916.5	5489.7	5502.9	4714.4	3096.0
65°	828.3	786.8	1005.5	1853.6	3190.4	4070.0	4919.8	5726.6	5738.1	4800.6	3016.5
67.5°	480.4	463.8	574.8	1154.6	2577.5	3766.9	4712.8	5690.1	5711.6	4764.1	2835.9
70°	279.9	278.3	319.7	571.5	1818.8	3165.6	4250.6	5383.7	5415.1	4573.6	2559.3
72.5°	205.4	208.7	225.3	306.5	1053.5	2279.4	3599.6	4767.4	4815.5	4200.9	2165.1
75°	162.3	164.0	178.9	208.7	553.3	1288.8	2696.8	3826.5	3864.6	3536.6	1691.3
77.5°	120.9	124.2	135.8	147.4	256.8	591.4	1517.4	2357.2	2294.3	1941.4	816.7
80°	87.8	96.1	101.0	106.0	135.8	228.6	455.5	821.6	815.0	848.1	386.0
82.5°	56.3	62.9	67.9	71.2	81.2	109.3	135.8	183.9	198.8	329.6	154.1
85°	24.8	28.2	31.5	38.1	34.8	38.1	56.3	36.4	31.5	49.7	28.2
87.5°	0.0	0.0	5.0	8.3	6.6	3.3	9.9	6.6	5.0	5.0	5.0
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°	1045.3	1045.3	1045.3	1045.3	1045.3	1045.3	1045.3	1045.3	1045.3	1045.3	1045.3
2.5°	1055.2	1037.0	998.9	962.4	940.9	912.7	887.9	864.7	863.0	856.4	844.8
5°	1068.4	1033.7	962.4	894.5	843.2	788.5	742.1	705.7	692.4	682.5	669.2
7.5°	1081.7	1027.0	921.0	821.6	740.5	664.3	609.6	559.9	545.0	531.7	523.5
10°	1086.7	1015.4	873.0	740.5	634.4	553.3	495.3	458.9	445.6	439.0	434.0
12.5°	1101.6	1008.8	828.3	664.3	541.7	467.1	425.7	404.2	399.2	394.2	389.3
15°	1121.5	1008.8	783.5	589.7	468.8	409.2	384.3	369.4	366.1	364.4	361.1
17.5°	1143.0	1008.8	740.5	526.8	415.8	371.1	352.8	344.6	342.9	341.2	339.6
20°	1172.8	1010.5	694.1	472.1	377.7	342.9	328.0	318.0	316.4	314.7	314.7
22.5°	1202.6	1013.8	649.4	430.7	352.8	321.4	303.1	293.2	289.9	289.9	289.9
25°	1240.7	1023.7	607.9	395.9	331.3	301.5	278.3	270.0	268.4	268.4	266.7
27.5°	1285.5	1035.3	571.5	369.4	309.8	278.3	255.1	246.8	243.5	243.5	241.9
30°	1333.5	1046.9	541.7	349.5	288.2	255.1	233.6	223.6	220.3	222.0	220.3
32.5°	1386.5	1063.5	518.5	336.3	268.4	235.2	215.3	203.8	202.1	202.1	200.4
35°	1475.9	1109.9	515.2	329.6	251.8	220.3	200.4	188.8	187.2	187.2	185.5
37.5°	1572.0	1162.9	530.1	326.3	238.5	207.1	188.8	177.2	175.6	175.6	175.6
40°	1653.2	1202.6	546.6	326.3	230.3	195.5	178.9	169.0	169.0	169.0	169.0
42.5°	1707.9	1205.9	543.3	326.3	223.6	187.2	172.3	162.3	162.3	164.0	162.3
45°	1789.0	1222.5	530.1	321.4	218.7	180.6	165.7	157.4	155.7	157.4	157.4
47.5°	1885.1	1252.3	516.8	301.5	217.0	173.9	160.7	150.7	149.1	150.7	149.1
50°	1976.2	1278.8	510.2	275.0	213.7	167.3	154.1	144.1	142.5	144.1	142.5
52.5°	2052.4	1290.4	498.6	256.8	205.4	160.7	147.4	137.5	134.2	135.8	135.8
55°	2113.7	1287.1	482.0	241.9	190.5	154.1	139.1	130.9	125.9	125.9	124.2
57.5°	2170.0	1288.8	467.1	226.9	173.9	144.1	132.5	122.6	116.0	114.3	112.6
60°	2191.6	1280.5	440.6	207.1	157.4	135.8	124.2	112.6	106.0	104.4	102.7
62.5°	2161.7	1250.7	405.8	172.3	142.5	125.9	116.0	104.4	97.7	96.1	94.4
65°	2077.3	1194.3	352.8	135.8	129.2	114.3	106.0	97.7	89.5	86.1	84.5
67.5°	1933.1	1113.2	286.6	109.3	114.3	104.4	99.4	89.5	79.5	76.2	74.5
70°	1727.7	1005.5	215.3	92.8	101.0	92.8	89.5	79.5	71.2	67.9	66.3
72.5°	1439.5	831.6	150.7	79.5	87.8	81.2	77.9	71.2	62.9	58.0	58.0
75°	1088.3	596.3	99.4	67.9	72.9	69.6	64.6	59.6	54.7	51.4	49.7
77.5°	468.8	231.9	61.3	51.4	59.6	58.0	51.4	48.0	46.4	43.1	43.1
80°	202.1	94.4	38.1	38.1	43.1	41.4	39.8	36.4	36.4	34.8	33.1
82.5°	74.5	38.1	23.2	28.2	31.5	28.2	28.2	28.2	28.2	26.5	26.5
85°	18.2	11.6	11.6	16.6	18.2	16.6	18.2	16.6	16.6	16.6	14.9
87.5°	5.0	5.0	6.6	6.6	6.6	6.6	6.6	5.0	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)