

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: P835815

Luminaire Tested: **ARCH3-100-727-U-T3-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835815
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: ARCH3-100-727-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 805mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10512 lumens
Efficiency: N/A
Efficacy: 102.5 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): 102.6
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

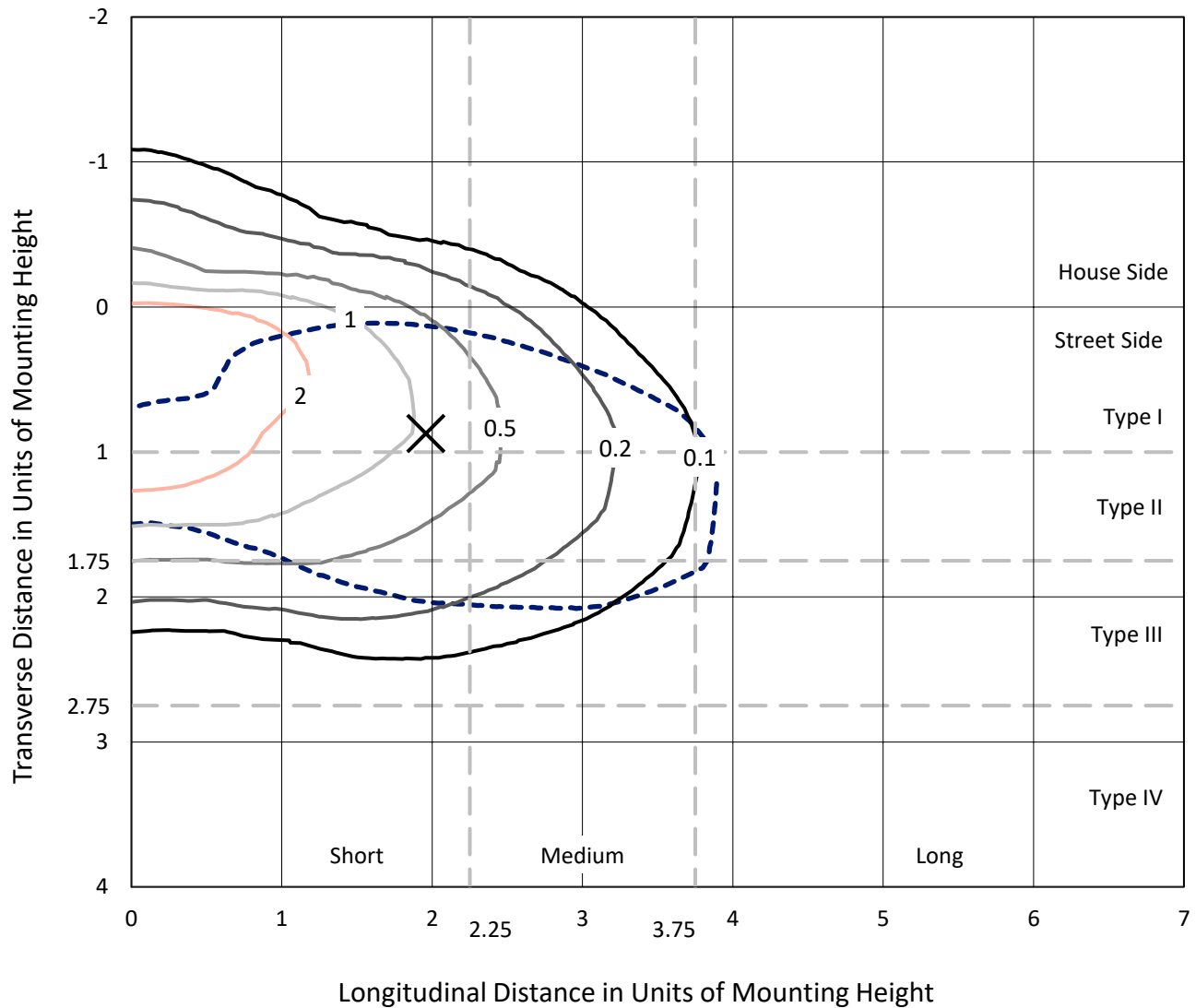


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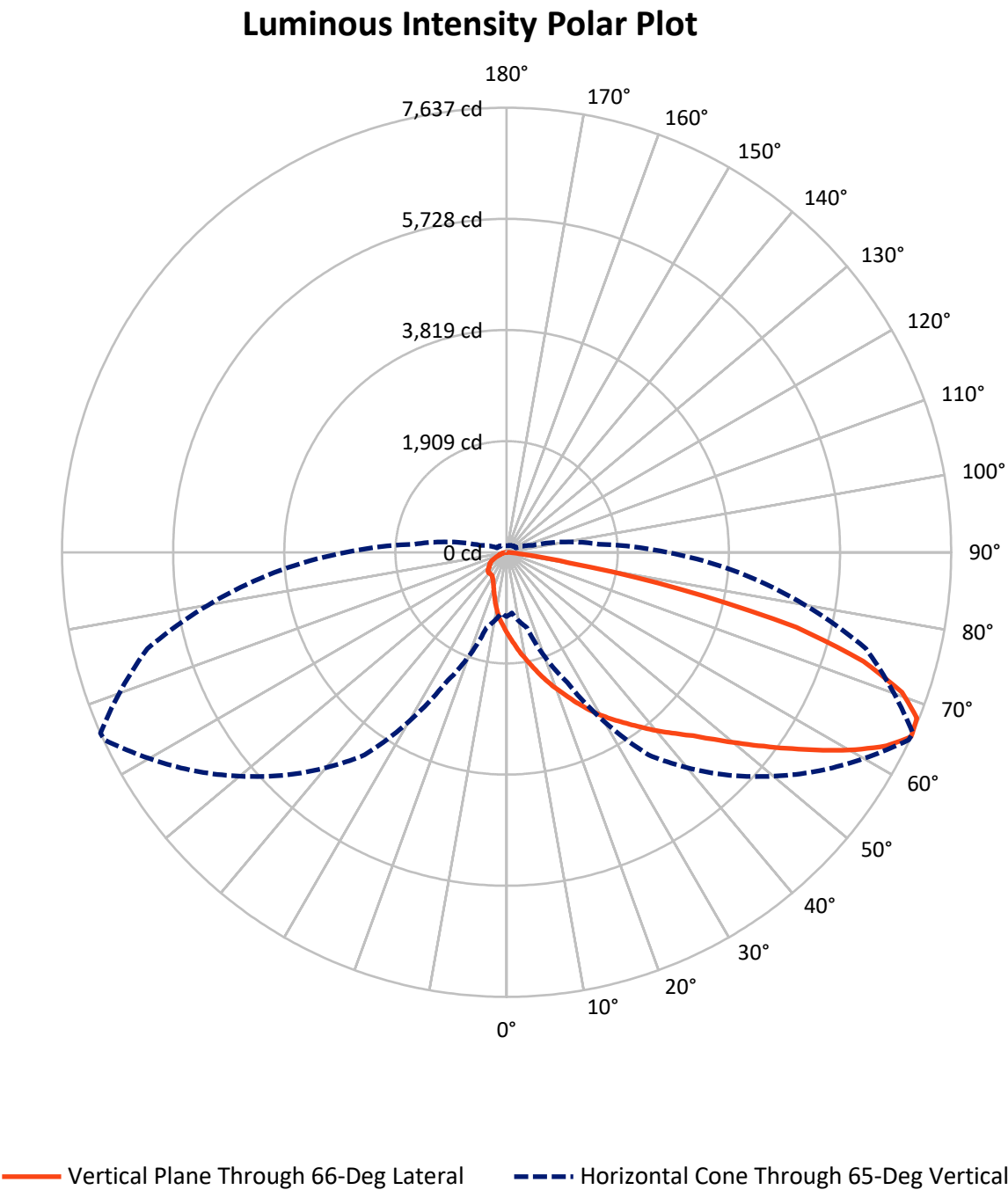
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
Type III - Short - N/A

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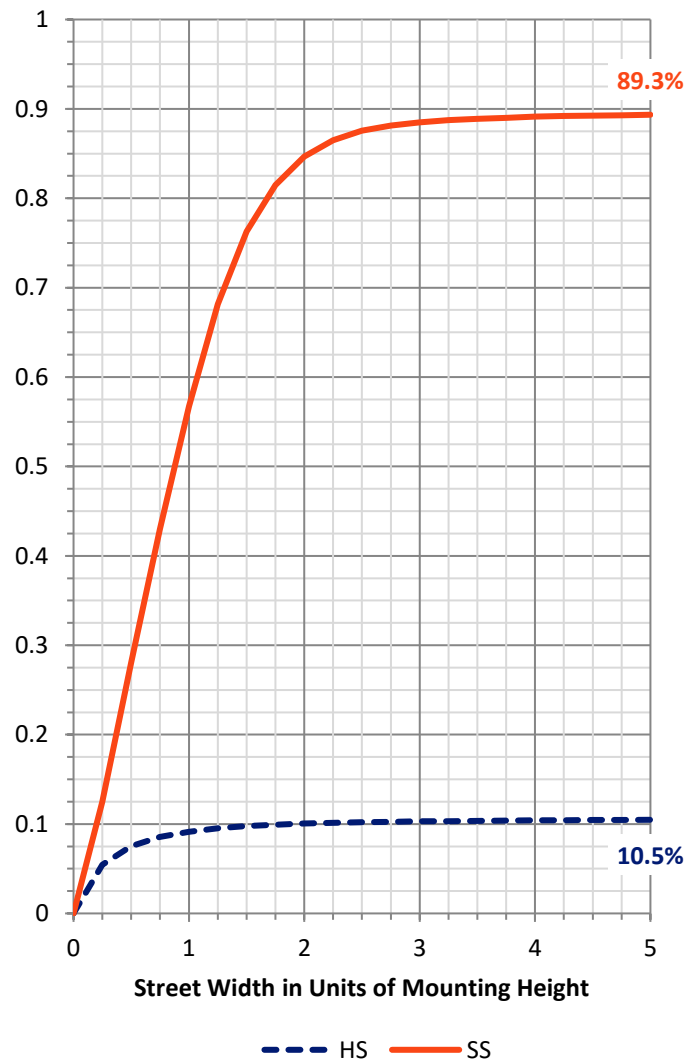
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1111.9	0.0	1111.9
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	9400.1	0.0	9400.1
	% Fixture	89.4	0.0	89.4
Total	Lumens	10512.0	0.0	10512.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.3	1.3
10°-20°	447.5	4.3
20°-30°	809.7	7.7
30°-40°	1266.2	12.0
40°-50°	1920.8	18.3
50°-60°	2440.5	23.2
60°-70°	2280.4	21.7
70°-80°	1133.3	10.8
80°-90°	76.1	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°	10512.0	100.0
0°-180°	10512.0	100.0

Coefficient of Utilization



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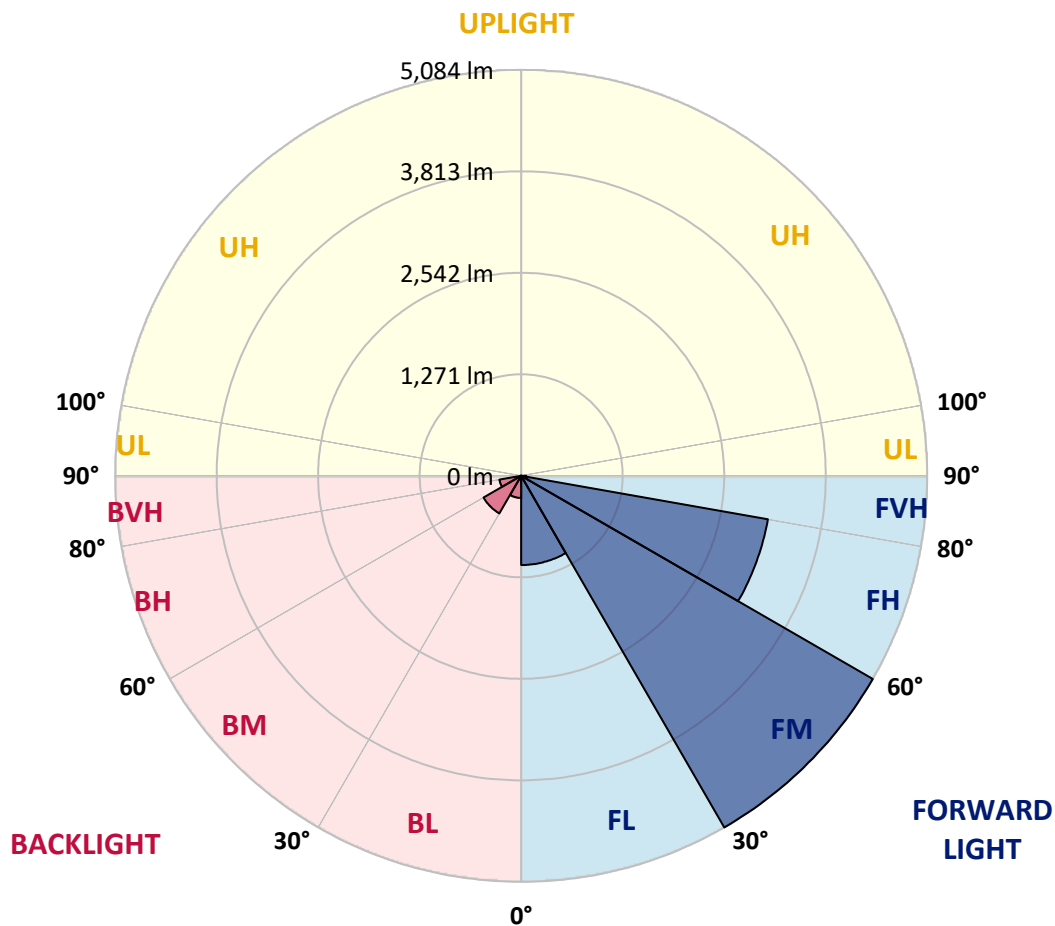
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1116.9	10.6			
FM	(30°-60°)	5083.7	48.4			
FH	(60°-80°)	3136.8	29.8			G2/5000
FVH	(80°-90°)	62.7	0.6			G1/100
BL	(0°-30°)	277.7	2.6	B1/500		
BM	(30°-60°)	543.8	5.2	B1/1000		
BH	(60°-80°)	276.9	2.6	B1/500		G1/500
BVH	(80°-90°)	13.5	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°	1391.2	1391.2	1391.2	1391.2	1391.2	1391.2	1391.2	1391.2	1391.2	1391.2	1391.2
2.5°	1624.9	1638.1	1644.8	1647.0	1596.2	1574.2	1552.2	1501.4	1490.4	1461.8	1424.3
5°	1911.5	1929.2	1924.8	1915.9	1854.2	1783.7	1726.3	1631.5	1616.1	1547.7	1464.0
7.5°	2193.7	2209.2	2204.8	2171.7	2103.3	2004.1	1909.3	1770.4	1748.4	1638.1	1503.6
10°	2429.6	2442.9	2440.7	2407.6	2326.0	2204.8	2090.1	1904.9	1878.5	1721.9	1536.7
12.5°	2623.7	2641.3	2639.1	2617.1	2544.3	2412.0	2281.9	2059.2	2026.2	1823.3	1583.0
15°	2775.8	2797.8	2797.8	2789.0	2738.3	2628.1	2480.4	2229.0	2189.3	1940.2	1640.3
17.5°	2868.4	2886.0	2901.5	2916.9	2881.6	2797.8	2663.4	2398.8	2356.9	2054.8	1699.9
20°	2916.9	2934.5	2945.6	2978.6	2985.2	2943.4	2837.5	2566.3	2522.2	2184.9	1768.2
22.5°	2996.3	3011.7	3013.9	3042.6	3055.8	3066.8	3000.7	2731.7	2696.4	2328.2	1845.4
25°	3128.6	3146.2	3139.6	3152.8	3155.0	3168.2	3161.6	2921.3	2886.0	2491.4	1938.0
27.5°	3298.3	3320.4	3316.0	3302.7	3282.9	3271.9	3300.5	3113.1	3080.1	2654.5	2032.8
30°	3481.3	3507.8	3501.2	3474.7	3421.8	3375.5	3415.2	3293.9	3263.0	2822.1	2138.6
32.5°	3666.5	3697.4	3695.2	3651.1	3560.7	3481.3	3540.8	3463.7	3441.6	3002.9	2253.3
35°	3787.8	3827.5	3823.1	3796.6	3679.7	3611.4	3684.2	3637.9	3622.4	3223.4	2418.6
37.5°	3984.0	4025.9	3988.4	3922.3	3787.8	3752.5	3840.7	3834.1	3823.1	3457.1	2592.8
40°	4460.2	4522.0	4422.8	4151.6	3931.1	3900.2	4025.9	4052.4	4041.3	3688.6	2749.3
42.5°	4958.5	5051.1	4896.8	4522.0	4191.3	4078.8	4228.7	4266.2	4253.0	3887.0	2890.4
45°	5260.6	5300.3	5145.9	4854.9	4652.1	4294.9	4444.8	4506.5	4495.5	4125.1	3071.2
47.5°	5507.5	5492.1	5315.7	5119.5	5156.9	4599.1	4689.5	4810.8	4802.0	4387.5	3269.7
50°	5560.4	5525.1	5454.6	5331.1	5430.3	4907.8	4947.5	5156.9	5148.1	4678.5	3470.3
52.5°	5187.8	5141.5	5333.3	5436.9	5403.9	5132.7	5231.9	5536.2	5531.8	4993.8	3662.1
55°	4257.4	4219.9	4735.8	5271.6	5375.2	5291.4	5547.2	5930.8	5955.1	5328.9	3836.3
57.5°	3349.0	3309.3	3816.4	4857.1	5269.4	5436.9	5915.4	6382.8	6413.7	5692.7	4001.6
60°	2670.0	2610.4	2998.5	4204.5	5071.0	5549.4	6270.3	6878.9	6883.3	6025.6	4103.1
62.5°	1814.5	1748.4	2178.3	3377.7	4738.0	5567.0	6543.7	7306.6	7324.2	6274.8	4120.7
65°	1102.4	1047.3	1338.3	2467.1	4246.4	5417.1	6548.1	7621.9	7637.3	6389.4	4014.9
67.5°	639.4	617.3	765.1	1536.7	3430.6	5013.6	6272.6	7573.4	7602.0	6340.9	3774.6
70°	372.6	370.4	425.5	760.6	2420.8	4213.3	5657.4	7165.5	7207.4	6087.4	3406.4
72.5°	273.4	277.8	299.8	407.9	1402.2	3033.8	4791.0	6345.3	6409.2	5591.3	2881.6
75°	216.1	218.3	238.1	277.8	736.4	1715.3	3589.4	5093.0	5143.7	4707.2	2251.1
77.5°	160.9	165.4	180.8	196.2	341.7	787.1	2019.6	3137.4	3053.6	2584.0	1086.9
80°	116.9	127.9	134.5	141.1	180.8	304.3	606.3	1093.6	1084.7	1128.8	513.7
82.5°	75.0	83.8	90.4	94.8	108.0	145.5	180.8	244.7	264.6	438.7	205.0
85°	33.1	37.5	41.9	50.7	46.3	50.7	75.0	48.5	41.9	66.1	37.5
87.5°	0.0	0.0	6.6	11.0	8.8	4.4	13.2	8.8	6.6	6.6	6.6
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°	1391.2	1391.2	1391.2	1391.2	1391.2	1391.2	1391.2	1391.2	1391.2	1391.2	1391.2
2.5°	1404.4	1380.2	1329.5	1281.0	1252.3	1214.8	1181.8	1150.9	1148.7	1139.9	1124.4
5°	1422.1	1375.8	1281.0	1190.6	1122.2	1049.5	987.7	939.2	921.6	908.4	890.7
7.5°	1439.7	1367.0	1225.8	1093.6	985.5	884.1	811.4	745.2	725.4	707.7	696.7
10°	1446.3	1351.5	1161.9	985.5	844.4	736.4	659.2	610.7	593.1	584.3	577.6
12.5°	1466.2	1342.7	1102.4	884.1	721.0	621.7	566.6	538.0	531.3	524.7	518.1
15°	1492.6	1342.7	1042.9	784.9	623.9	544.6	511.5	491.7	487.3	485.0	480.6
17.5°	1521.3	1342.7	985.5	701.1	553.4	493.9	469.6	458.6	456.4	454.2	452.0
20°	1561.0	1344.9	923.8	628.4	502.7	456.4	436.5	423.3	421.1	418.9	418.9
22.5°	1600.7	1349.3	864.3	573.2	469.6	427.7	403.5	390.2	385.8	385.8	385.8
25°	1651.4	1362.5	809.1	526.9	441.0	401.3	370.4	359.4	357.2	357.2	355.0
27.5°	1710.9	1378.0	760.6	491.7	412.3	370.4	339.5	328.5	324.1	324.1	321.9
30°	1774.8	1393.4	721.0	465.2	383.6	339.5	310.9	297.6	293.2	295.4	293.2
32.5°	1845.4	1415.5	690.1	447.6	357.2	313.1	286.6	271.2	269.0	269.0	266.8
35°	1964.4	1477.2	685.7	438.7	335.1	293.2	266.8	251.3	249.1	249.1	246.9
37.5°	2092.3	1547.7	705.5	434.3	317.5	275.6	251.3	235.9	233.7	233.7	233.7
40°	2200.4	1600.7	727.6	434.3	306.5	260.2	238.1	224.9	224.9	224.9	224.9
42.5°	2273.1	1605.1	723.2	434.3	297.6	249.1	229.3	216.1	216.1	218.3	216.1
45°	2381.1	1627.1	705.5	427.7	291.0	240.3	220.5	209.5	207.2	209.5	209.5
47.5°	2509.0	1666.8	687.9	401.3	288.8	231.5	213.9	200.6	198.4	200.6	198.4
50°	2630.3	1702.1	679.1	366.0	284.4	222.7	205.0	191.8	189.6	191.8	189.6
52.5°	2731.7	1717.5	663.6	341.7	273.4	213.9	196.2	183.0	178.6	180.8	180.8
55°	2813.3	1713.1	641.6	321.9	253.5	205.0	185.2	174.2	167.6	167.6	165.4
57.5°	2888.2	1715.3	621.7	302.1	231.5	191.8	176.4	163.2	154.3	152.1	149.9
60°	2916.9	1704.3	586.5	275.6	209.5	180.8	165.4	149.9	141.1	138.9	136.7
62.5°	2877.2	1664.6	540.2	229.3	189.6	167.6	154.3	138.9	130.1	127.9	125.7
65°	2764.8	1589.6	469.6	180.8	172.0	152.1	141.1	130.1	119.1	114.6	112.4
67.5°	2573.0	1481.6	381.4	145.5	152.1	138.9	132.3	119.1	105.8	101.4	99.2
70°	2299.6	1338.3	286.6	123.5	134.5	123.5	119.1	105.8	94.8	90.4	88.2
72.5°	1915.9	1106.8	200.6	105.8	116.9	108.0	103.6	94.8	83.8	77.2	77.2
75°	1448.5	793.7	132.3	90.4	97.0	92.6	86.0	79.4	72.8	68.3	66.1
77.5°	623.9	308.7	81.6	68.3	79.4	77.2	68.3	63.9	61.7	57.3	57.3
80°	269.0	125.7	50.7	50.7	57.3	55.1	52.9	48.5	48.5	46.3	44.1
82.5°	99.2	50.7	30.9	37.5	41.9	37.5	37.5	37.5	37.5	35.3	35.3
85°	24.3	15.4	15.4	22.0	24.3	22.0	24.3	22.0	22.0	22.0	19.8
87.5°	6.6	6.6	8.8	8.8	8.8	8.8	8.8	6.6	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)