

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: P835887

Luminaire Tested: **ARCH3-110-727-U-T3-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835887
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: ARCH3-110-727-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 880mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11305 lumens
Efficiency: N/A
Efficacy: 101.0 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): 111.9
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

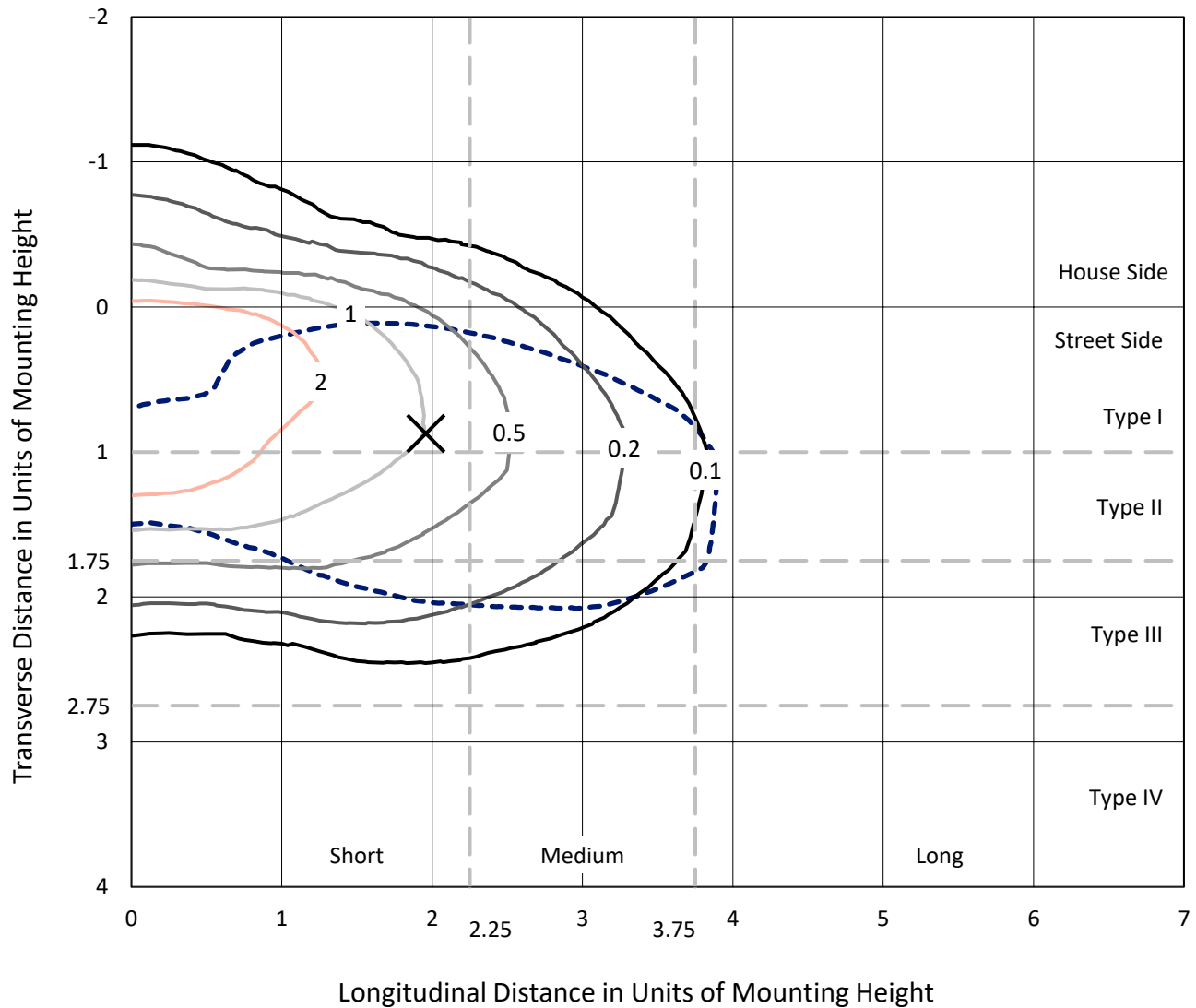


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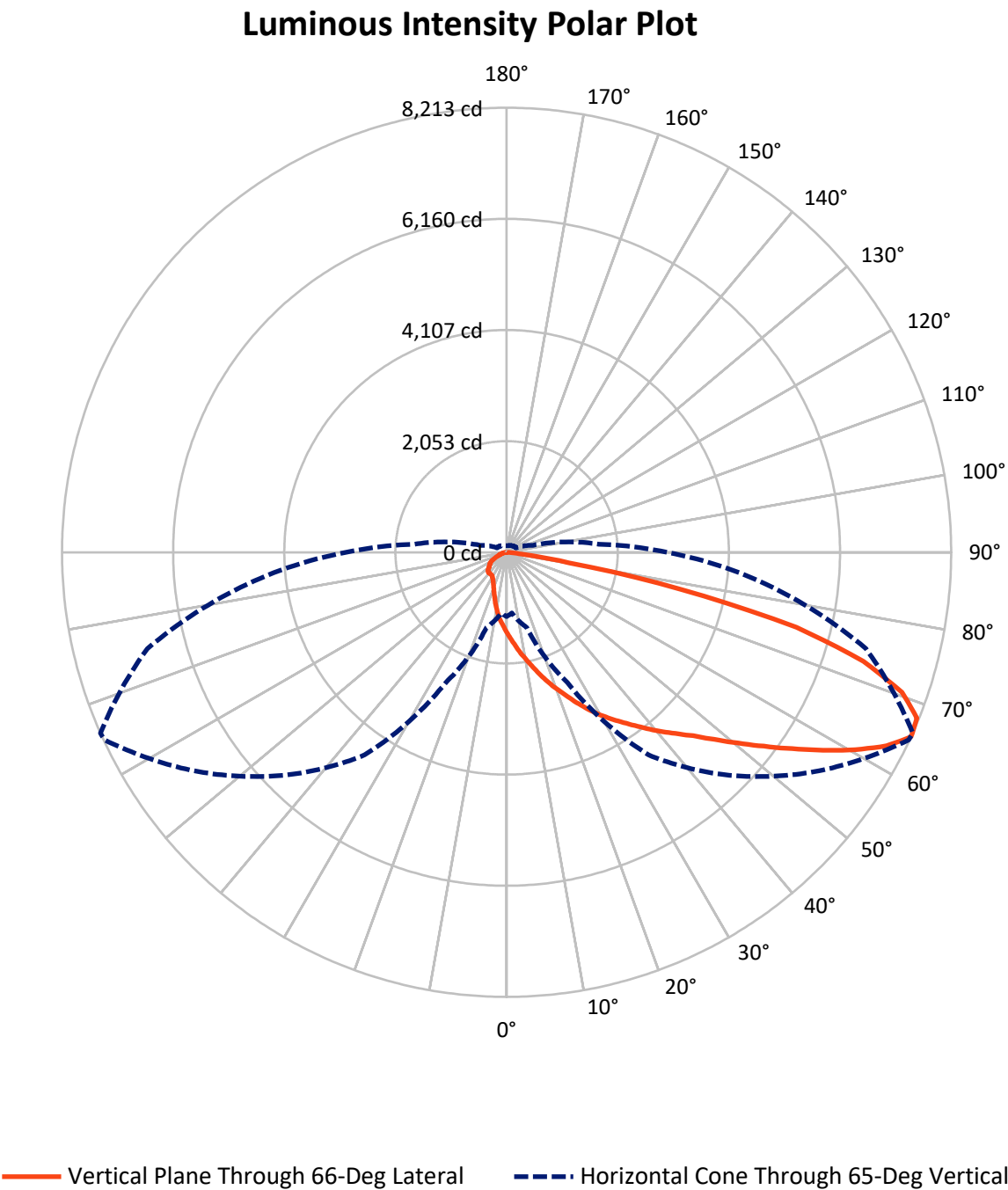
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



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

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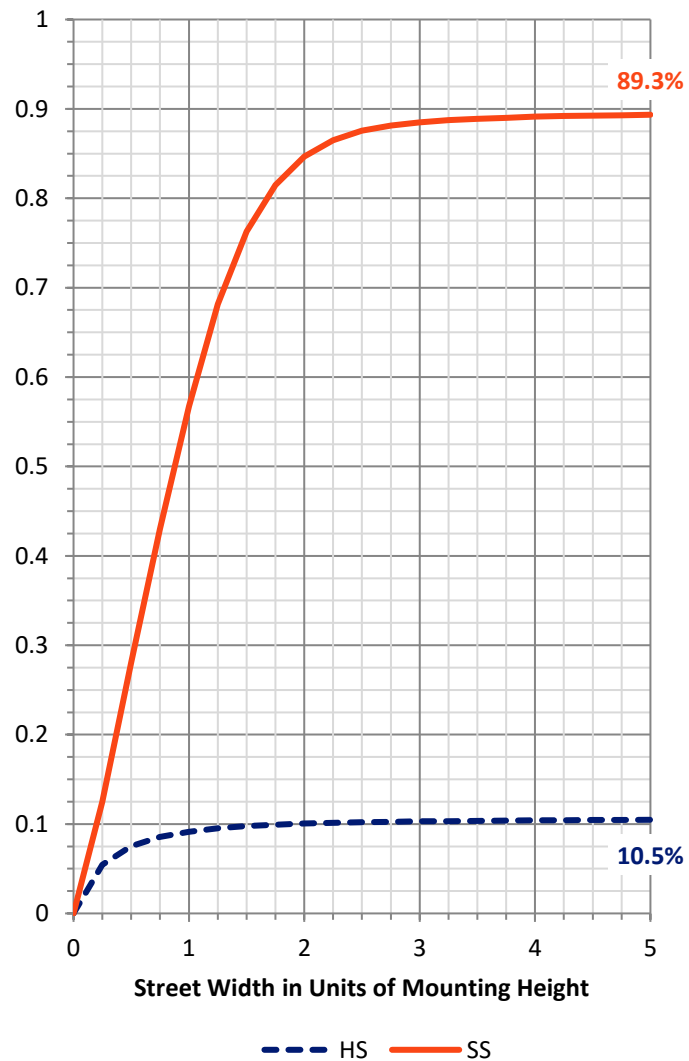
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1195.8	0.0	1195.8
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	10109.2	0.0	10109.2
	% Fixture	89.4	0.0	89.4
Total	Lumens	11305.0	0.0	11305.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.7	1.3
10°-20°	481.3	4.3
20°-30°	870.8	7.7
30°-40°	1361.7	12.0
40°-50°	2065.7	18.3
50°-60°	2624.6	23.2
60°-70°	2452.4	21.7
70°-80°	1218.8	10.8
80°-90°	81.9	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°	11305.0	100.0
0°-180°	11305.0	100.0

Coefficient of Utilization



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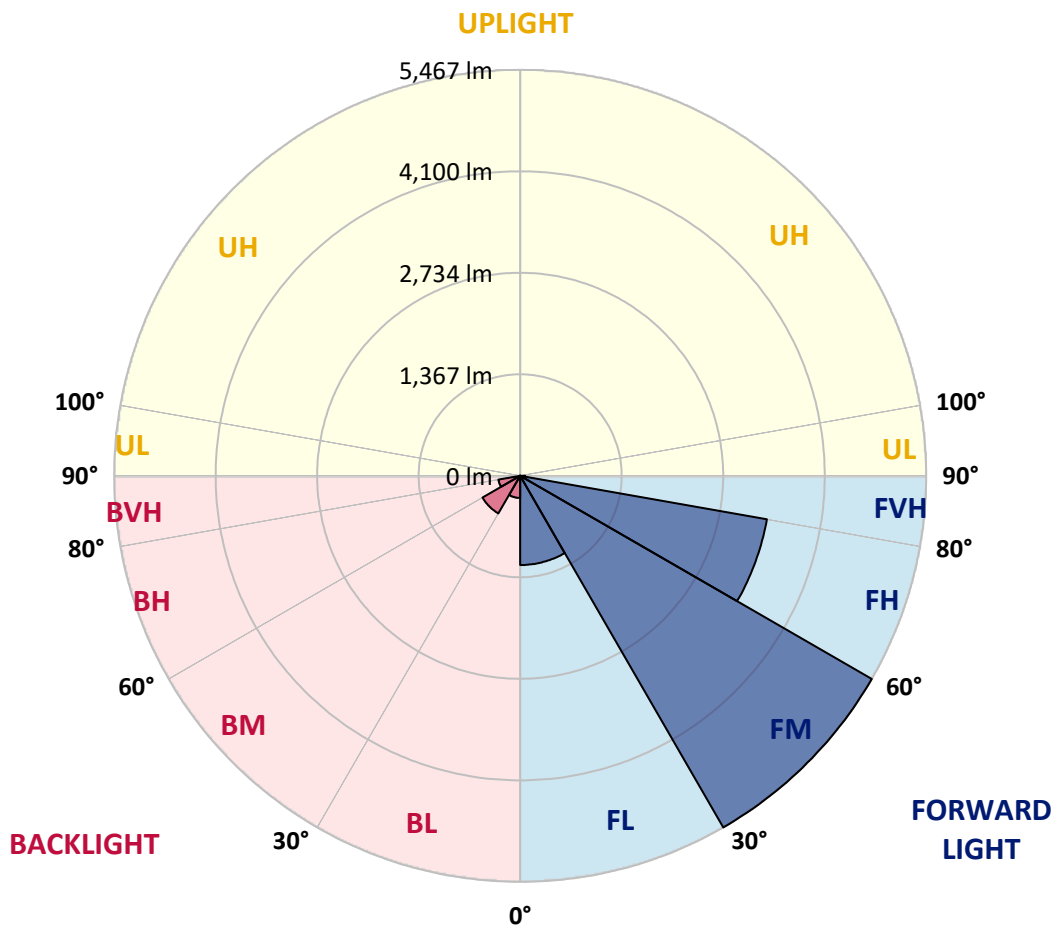
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1201.2	10.6			
FM	(30°-60°)	5467.2	48.4			
FH	(60°-80°)	3373.5	29.8			G2/5000
FVH	(80°-90°)	67.4	0.6			G1/100
BL	(0°-30°)	298.6	2.6	B1/500		
BM	(30°-60°)	584.8	5.2	B1/1000		
BH	(60°-80°)	297.8	2.6	B1/500		G1/500
BVH	(80°-90°)	14.5	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°	1496.2	1496.2	1496.2	1496.2	1496.2	1496.2	1496.2	1496.2	1496.2	1496.2	1496.2
2.5°	1747.5	1761.7	1768.8	1771.2	1716.7	1693.0	1669.2	1614.7	1602.9	1572.0	1531.7
5°	2055.7	2074.7	2070.0	2060.5	1994.1	1918.2	1856.6	1754.6	1738.0	1664.5	1574.4
7.5°	2359.2	2375.8	2371.1	2335.5	2262.0	2155.3	2053.4	1904.0	1880.3	1761.7	1617.1
10°	2612.9	2627.2	2624.8	2589.2	2501.5	2371.1	2247.8	2048.6	2020.2	1851.8	1652.6
12.5°	2821.6	2840.6	2838.2	2814.5	2736.2	2594.0	2454.1	2214.6	2179.0	1960.9	1702.4
15°	2985.2	3008.9	3008.9	2999.4	2944.9	2826.3	2667.5	2397.2	2354.5	2086.6	1764.1
17.5°	3084.8	3103.8	3120.3	3136.9	3099.0	3008.9	2864.3	2579.7	2534.7	2209.9	1828.1
20°	3136.9	3155.9	3167.8	3203.3	3210.4	3165.4	3051.6	2759.9	2712.5	2349.7	1901.6
22.5°	3222.3	3238.9	3241.3	3272.1	3286.3	3298.2	3227.0	2937.8	2899.8	2503.9	1984.6
25°	3364.6	3383.5	3376.4	3390.7	3393.0	3407.2	3400.1	3141.7	3103.8	2679.3	2084.2
27.5°	3547.1	3570.9	3566.1	3551.9	3530.5	3518.7	3549.5	3348.0	3312.4	2854.8	2186.1
30°	3743.9	3772.4	3765.3	3736.8	3679.9	3630.1	3672.8	3542.4	3509.2	3035.0	2300.0
32.5°	3943.1	3976.3	3973.9	3926.5	3829.3	3743.9	3808.0	3725.0	3701.3	3229.4	2423.2
35°	4073.5	4116.2	4111.5	4083.0	3957.3	3883.8	3962.1	3912.3	3895.7	3466.5	2601.1
37.5°	4284.6	4329.6	4289.3	4218.2	4073.5	4035.6	4130.4	4123.3	4111.5	3717.9	2788.4
40°	4796.7	4863.1	4756.4	4464.8	4227.6	4194.4	4329.6	4358.1	4346.2	3966.8	2956.7
42.5°	5332.6	5432.2	5266.2	4863.1	4507.4	4386.5	4547.7	4588.0	4573.8	4180.2	3108.5
45°	5657.4	5700.1	5534.1	5221.1	5003.0	4618.9	4780.1	4846.5	4834.6	4436.3	3302.9
47.5°	5923.0	5906.4	5716.7	5505.7	5546.0	4946.1	5043.3	5173.7	5164.2	4718.5	3516.3
50°	5979.9	5941.9	5866.1	5733.3	5840.0	5278.0	5320.7	5546.0	5536.5	5031.4	3732.1
52.5°	5579.2	5529.4	5735.7	5847.1	5811.5	5519.9	5626.6	5953.8	5949.1	5370.5	3938.4
55°	4578.6	4538.3	5093.1	5669.3	5780.7	5690.6	5965.7	6378.2	6404.3	5730.9	4125.7
57.5°	3601.7	3559.0	4104.3	5223.5	5666.9	5847.1	6361.6	6864.3	6897.5	6122.1	4303.5
60°	2871.4	2807.4	3224.7	4521.7	5453.5	5968.0	6743.4	7397.8	7402.5	6480.2	4412.6
62.5°	1951.4	1880.3	2342.6	3632.5	5095.5	5987.0	7037.4	7857.8	7876.7	6748.1	4431.6
65°	1185.5	1126.3	1439.2	2653.2	4566.7	5825.8	7042.1	8196.8	8213.4	6871.4	4317.7
67.5°	687.6	663.9	822.8	1652.6	3689.4	5391.8	6745.7	8144.7	8175.5	6819.2	4059.3
70°	400.7	398.3	457.6	818.0	2603.5	4531.1	6084.2	7706.0	7751.1	6546.6	3663.3
72.5°	294.0	298.8	322.5	438.7	1508.0	3262.6	5152.4	6824.0	6892.7	6013.1	3099.0
75°	232.4	234.7	256.1	298.8	791.9	1844.7	3860.1	5477.2	5531.7	5062.3	2420.9
77.5°	173.1	177.8	194.4	211.0	367.5	846.5	2171.9	3374.1	3284.0	2778.9	1168.9
80°	125.7	137.5	144.6	151.7	194.4	327.2	652.0	1176.1	1166.6	1214.0	552.5
82.5°	80.6	90.1	97.2	102.0	116.2	156.5	194.4	263.2	284.5	471.8	220.5
85°	35.6	40.3	45.1	54.5	49.8	54.5	80.6	52.2	45.1	71.1	40.3
87.5°	0.0	0.0	7.1	11.9	9.5	4.7	14.2	9.5	7.1	7.1	7.1
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°	1496.2	1496.2	1496.2	1496.2	1496.2	1496.2	1496.2	1496.2	1496.2	1496.2	1496.2
2.5°	1510.4	1484.3	1429.8	1377.6	1346.8	1306.5	1270.9	1237.7	1235.3	1225.9	1209.3
5°	1529.3	1479.6	1377.6	1280.4	1206.9	1128.6	1062.2	1010.1	991.1	976.9	957.9
7.5°	1548.3	1470.1	1318.3	1176.1	1059.9	950.8	872.6	801.4	780.1	761.1	749.3
10°	1555.4	1453.5	1249.6	1059.9	908.1	791.9	709.0	656.8	637.8	628.3	621.2
12.5°	1576.8	1444.0	1185.5	950.8	775.3	668.6	609.4	578.5	571.4	564.3	557.2
15°	1605.2	1444.0	1121.5	844.1	671.0	585.7	550.1	528.8	524.0	521.6	516.9
17.5°	1636.0	1444.0	1059.9	754.0	595.1	531.1	505.0	493.2	490.8	488.4	486.1
20°	1678.7	1446.4	993.5	675.8	540.6	490.8	469.5	455.2	452.9	450.5	450.5
22.5°	1721.4	1451.1	929.5	616.5	505.0	460.0	433.9	419.7	414.9	414.9	414.9
25°	1775.9	1465.3	870.2	566.7	474.2	431.5	398.3	386.5	384.1	384.1	381.7
27.5°	1840.0	1481.9	818.0	528.8	443.4	398.3	365.1	353.3	348.5	348.5	346.2
30°	1908.7	1498.5	775.3	500.3	412.6	365.1	334.3	320.1	315.4	317.7	315.4
32.5°	1984.6	1522.2	742.1	481.3	384.1	336.7	308.2	291.6	289.3	289.3	286.9
35°	2112.6	1588.6	737.4	471.8	360.4	315.4	286.9	270.3	267.9	267.9	265.6
37.5°	2250.2	1664.5	758.7	467.1	341.4	296.4	270.3	253.7	251.3	251.3	251.3
40°	2366.3	1721.4	782.5	467.1	329.6	279.8	256.1	241.9	241.9	241.9	241.9
42.5°	2444.6	1726.1	777.7	467.1	320.1	267.9	246.6	232.4	232.4	234.7	232.4
45°	2560.8	1749.9	758.7	460.0	313.0	258.4	237.1	225.3	222.9	225.3	225.3
47.5°	2698.3	1792.5	739.8	431.5	310.6	249.0	230.0	215.8	213.4	215.8	213.4
50°	2828.7	1830.5	730.3	393.6	305.9	239.5	220.5	206.3	203.9	206.3	203.9
52.5°	2937.8	1847.1	713.7	367.5	294.0	230.0	211.0	196.8	192.1	194.4	194.4
55°	3025.5	1842.3	690.0	346.2	272.7	220.5	199.2	187.3	180.2	180.2	177.8
57.5°	3106.1	1844.7	668.6	324.8	249.0	206.3	189.7	175.5	166.0	163.6	161.2
60°	3136.9	1832.8	630.7	296.4	225.3	194.4	177.8	161.2	151.7	149.4	147.0
62.5°	3094.3	1790.2	580.9	246.6	203.9	180.2	166.0	149.4	139.9	137.5	135.2
65°	2973.3	1709.6	505.0	194.4	184.9	163.6	151.7	139.9	128.0	123.3	120.9
67.5°	2767.1	1593.4	410.2	156.5	163.6	149.4	142.3	128.0	113.8	109.1	106.7
70°	2473.0	1439.2	308.2	132.8	144.6	132.8	128.0	113.8	102.0	97.2	94.8
72.5°	2060.5	1190.3	215.8	113.8	125.7	116.2	111.4	102.0	90.1	83.0	83.0
75°	1557.8	853.6	142.3	97.2	104.3	99.6	92.5	85.4	78.2	73.5	71.1
77.5°	671.0	332.0	87.7	73.5	85.4	83.0	73.5	68.8	66.4	61.6	61.6
80°	289.3	135.2	54.5	54.5	61.6	59.3	56.9	52.2	52.2	49.8	47.4
82.5°	106.7	54.5	33.2	40.3	45.1	40.3	40.3	40.3	40.3	37.9	37.9
85°	26.1	16.6	16.6	23.7	26.1	23.7	26.1	23.7	23.7	23.7	21.3
87.5°	7.1	7.1	9.5	9.5	9.5	9.5	9.5	7.1	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)