

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: P836018

Luminaire Tested: **ARCH3-130-722-U-T2R-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836018
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-130-722-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1035mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11925 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 132.6
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



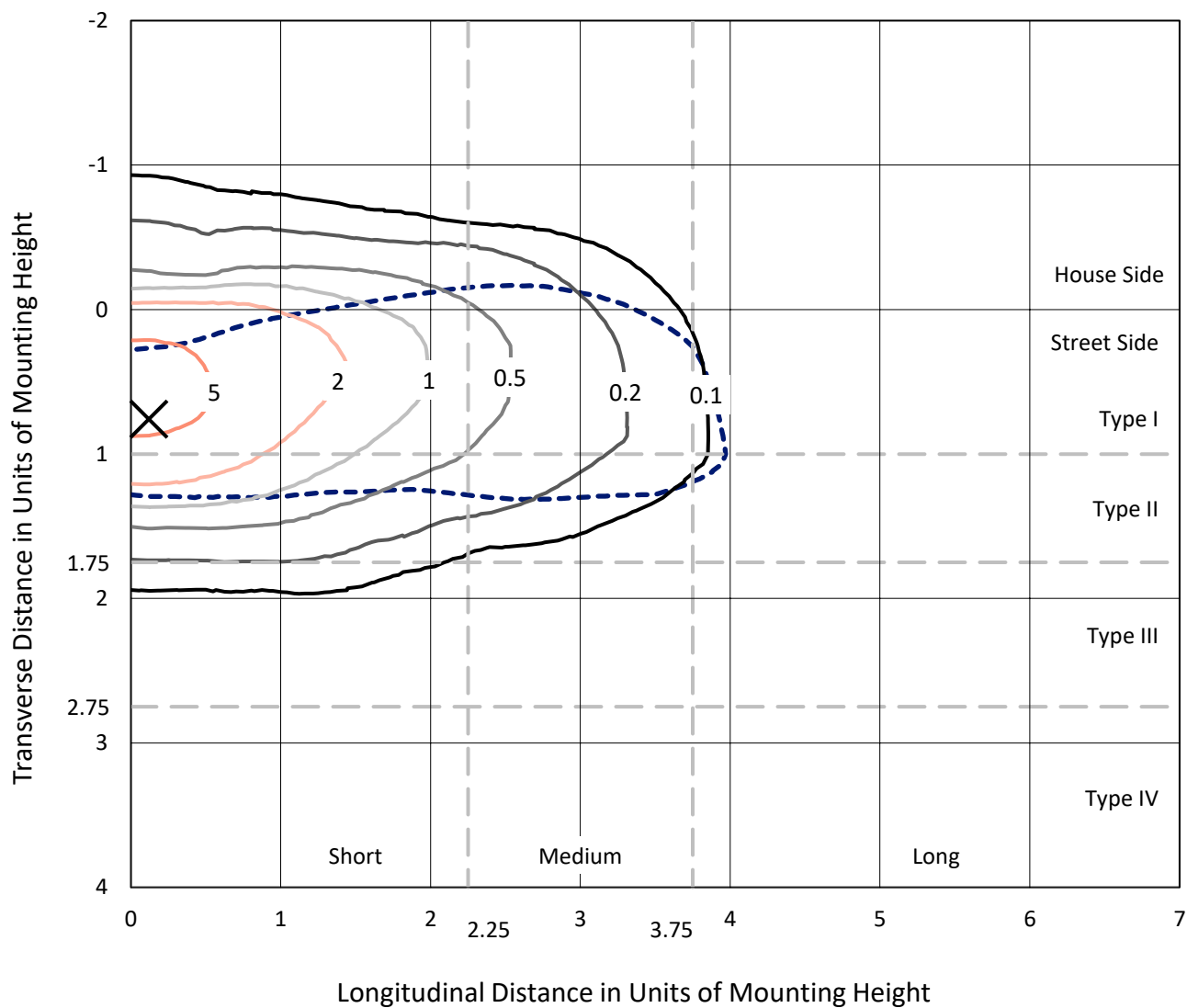
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

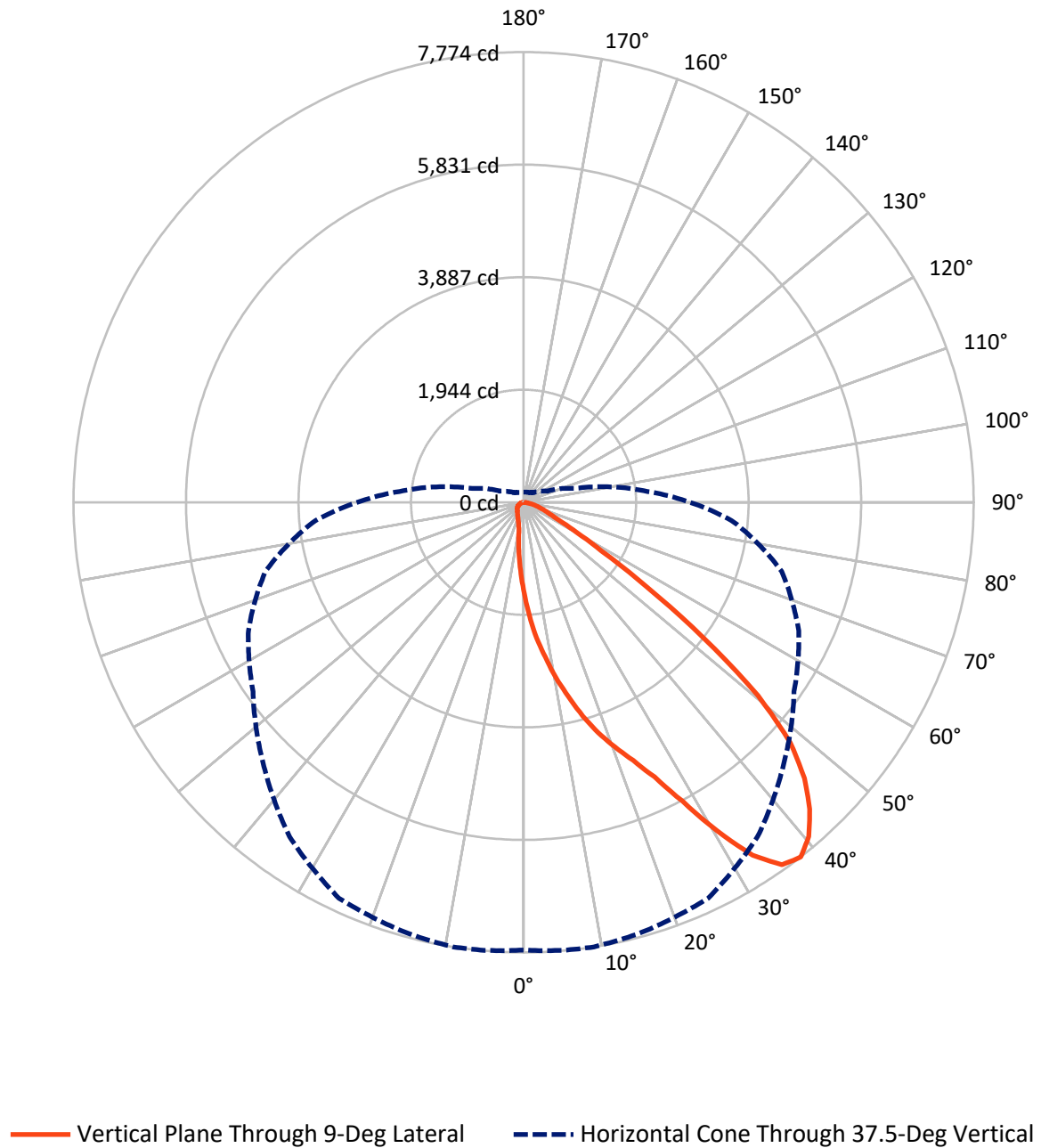
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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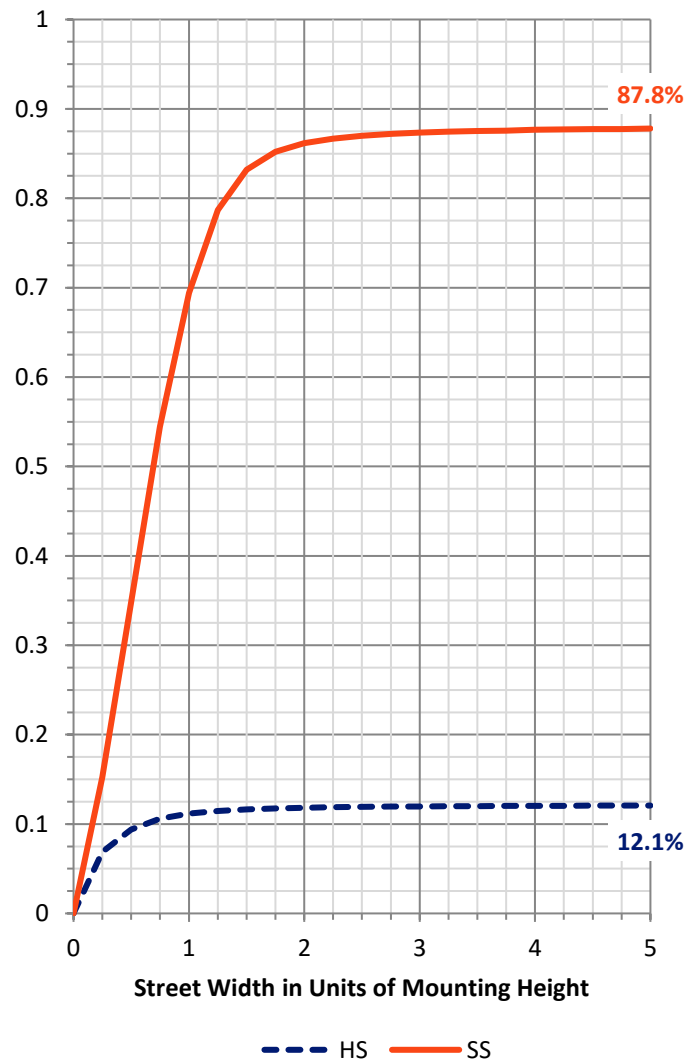
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1450.3	0.0	1450.3
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	10474.7	0.0	10474.7
	% Fixture	87.8	0.0	87.8
Total	Lumens	11925.0	0.0	11925.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.4	1.3
10°-20°	550.7	4.6
20°-30°	1131.6	9.5
30°-40°	2000.1	16.8
40°-50°	2657.0	22.3
50°-60°	2520.0	21.1
60°-70°	1922.6	16.1
70°-80°	932.0	7.8
80°-90°	52.5	0.4
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°	11925.0	100.0
0°-180°	11925.0	100.0

Coefficient of Utilization



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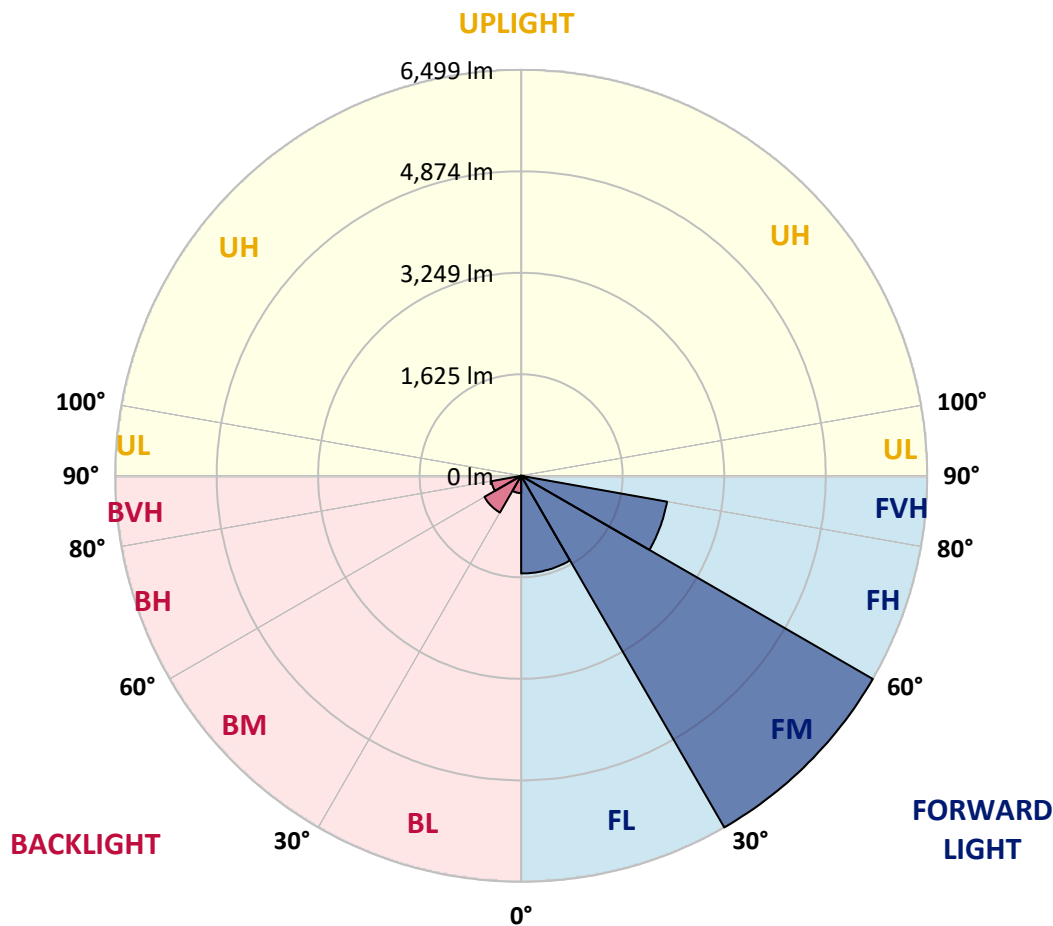
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1564.0	13.1			
FM	(30°-60°)	6498.5	54.5			
FH	(60°-80°)	2370.6	19.9			G2/5000
FVH	(80°-90°)	41.5	0.3			G1/100
BL	(0°-30°)	276.8	2.3	B1/500		
BM	(30°-60°)	678.6	5.7	B1/1000		
BH	(60°-80°)	483.9	4.1	B1/500		G1/500
BVH	(80°-90°)	10.9	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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1576.3	1576.3	1576.3	1576.3	1576.3	1576.3	1576.3	1576.3	1576.3	1576.3	1576.3
2.5°	1953.3	1919.0	1958.2	1953.3	1919.0	1897.0	1828.5	1806.4	1725.7	1666.9	1615.5
5°	2354.7	2320.5	2354.7	2344.9	2296.0	2242.1	2129.5	2056.1	1911.7	1784.4	1669.4
7.5°	2687.6	2687.6	2702.3	2704.7	2646.0	2562.8	2423.3	2313.1	2109.9	1914.1	1730.5
10°	3047.4	3049.9	3081.7	3059.7	2981.3	2868.7	2692.5	2553.0	2308.2	2051.2	1789.3
12.5°	3431.7	3434.2	3444.0	3434.2	3341.2	3196.7	2983.8	2800.2	2518.7	2207.9	1870.1
15°	3816.0	3818.5	3830.7	3813.6	3710.8	3541.9	3299.5	3074.4	2741.5	2384.1	1968.0
17.5°	4175.8	4180.7	4190.5	4168.5	4060.8	3860.1	3612.9	3341.2	2978.9	2572.6	2078.1
20°	4498.9	4503.8	4511.2	4481.8	4374.1	4173.4	3906.6	3622.6	3221.2	2765.9	2198.1
22.5°	4824.5	4829.4	4841.6	4802.5	4682.5	4452.4	4190.5	3896.8	3478.2	2978.9	2337.6
25°	5240.6	5245.5	5255.3	5199.0	5035.0	4765.7	4489.1	4188.1	3757.3	3218.8	2508.9
27.5°	5850.1	5845.2	5845.2	5742.4	5460.9	5110.9	4790.2	4484.2	4058.3	3475.8	2697.4
30°	6604.0	6591.7	6584.4	6444.9	6043.5	5500.1	5098.6	4760.8	4347.2	3747.5	2900.6
32.5°	7279.6	7279.6	7264.9	7118.0	6692.1	6023.9	5426.6	5030.1	4626.2	4021.6	3111.1
35°	7678.5	7695.7	7688.3	7578.2	7267.3	6586.9	5869.7	5353.2	4919.9	4308.0	3363.2
37.5°	7732.4	7766.7	7774.0	7707.9	7543.9	7047.0	6361.7	5703.2	5243.0	4616.4	3608.0
40°	7514.5	7588.0	7588.0	7578.2	7519.4	7264.9	6775.3	6109.5	5575.9	4937.1	3855.2
42.5°	7179.2	7255.1	7245.3	7282.0	7267.3	7213.5	7007.9	6488.9	5908.8	5267.5	4080.4
45°	6741.1	6819.4	6799.8	6865.9	6895.3	6954.0	6983.4	6753.3	6236.8	5627.3	4332.5
47.5°	6038.6	6170.7	6200.1	6317.6	6440.0	6623.6	6763.1	6848.8	6542.8	6014.1	4606.6
50°	5000.7	5186.7	5245.5	5492.7	5828.1	6207.5	6432.6	6731.3	6758.2	6410.6	4902.8
52.5°	3581.0	3796.4	3887.0	4293.3	4983.6	5644.5	6050.8	6471.8	6841.4	6790.0	5223.5
55°	2315.6	2499.1	2587.3	2969.1	3887.0	4924.8	5600.4	6136.5	6794.9	7137.6	5590.6
57.5°	1427.0	1532.3	1591.0	1919.0	2763.5	4002.0	5010.5	5828.1	6652.9	7438.7	5972.5
60°	962.0	1023.2	1052.5	1206.7	1877.4	2991.1	4200.3	5505.0	6466.9	7641.8	6320.0
62.5°	638.9	658.4	687.8	783.3	1238.6	2100.2	3226.1	4927.3	6327.4	7654.1	6577.1
65°	494.4	504.2	516.5	558.1	763.7	1468.6	2269.0	3992.3	6119.3	7394.6	6657.8
67.5°	389.2	399.0	413.7	435.7	553.2	996.2	1544.5	2925.0	5693.4	6988.3	6525.7
70°	306.0	313.3	323.1	342.7	430.8	722.1	1020.7	1943.5	4834.3	6601.5	6109.5
72.5°	242.3	249.7	259.5	279.0	350.0	528.7	700.1	1211.6	3727.9	6129.1	5309.1
75°	190.9	195.8	203.2	222.7	281.5	411.2	474.9	724.5	2533.4	5265.1	4136.7
77.5°	95.5	117.5	134.6	154.2	205.6	283.9	315.8	401.4	1069.7	2702.3	1972.9
80°	56.3	68.5	73.4	85.7	134.6	171.3	171.3	161.6	337.8	1037.8	805.3
82.5°	31.8	44.1	46.5	49.0	80.8	97.9	78.3	58.7	68.5	347.6	235.0
85°	9.8	14.7	17.1	19.6	26.9	29.4	26.9	24.5	19.6	34.3	22.0
87.5°	0.0	0.0	0.0	0.0	2.4	4.9	4.9	4.9	7.3	7.3	7.3
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°	1576.3	1576.3	1576.3	1576.3	1576.3	1576.3	1576.3	1576.3	1576.3	1576.3	1576.3
2.5°	1586.1	1554.3	1493.1	1436.8	1383.0	1343.8	1307.1	1272.8	1248.3	1228.8	1226.3
5°	1608.2	1544.5	1427.0	1316.9	1216.5	1133.3	1062.3	1006.0	964.4	935.0	932.6
7.5°	1637.5	1539.6	1360.9	1196.9	1047.6	927.7	824.9	749.0	695.2	673.1	656.0
10°	1662.0	1534.7	1294.9	1077.0	881.2	729.4	607.0	531.2	492.0	477.3	470.0
12.5°	1703.6	1539.6	1238.6	966.9	736.8	558.1	465.1	423.5	406.3	394.1	391.6
15°	1764.8	1561.7	1184.7	859.2	589.9	450.4	396.5	369.6	352.5	350.0	347.6
17.5°	1826.0	1581.2	1135.7	749.0	489.5	391.6	354.9	332.9	320.7	318.2	318.2
20°	1897.0	1605.7	1081.9	643.8	418.6	352.5	323.1	306.0	291.3	288.8	288.8
22.5°	1980.2	1640.0	1030.5	550.7	372.1	323.1	298.6	279.0	266.8	264.4	264.4
25°	2092.8	1691.4	988.9	482.2	340.2	298.6	276.6	259.5	249.7	244.8	244.8
27.5°	2217.6	1762.4	959.5	440.6	318.2	279.0	257.0	242.3	232.5	227.6	227.6
30°	2357.2	1840.7	939.9	423.5	306.0	261.9	242.3	227.6	215.4	213.0	213.0
32.5°	2511.4	1931.3	927.7	425.9	303.5	249.7	227.6	213.0	203.2	198.3	198.3
35°	2682.7	2031.6	920.3	440.6	308.4	239.9	215.4	200.7	190.9	186.0	186.0
37.5°	2873.6	2149.1	920.3	455.3	320.7	237.4	203.2	188.5	181.1	176.2	176.2
40°	3052.3	2273.9	930.1	472.4	332.9	237.4	193.4	181.1	171.3	166.4	166.4
42.5°	3191.8	2344.9	937.5	489.5	340.2	235.0	183.6	171.3	164.0	159.1	159.1
45°	3350.9	2420.8	922.8	496.9	340.2	230.1	176.2	164.0	156.7	151.8	151.8
47.5°	3527.2	2513.8	920.3	501.8	332.9	220.3	168.9	156.7	151.8	146.9	146.9
50°	3705.9	2616.6	925.2	499.3	323.1	205.6	159.1	151.8	144.4	139.5	139.5
52.5°	3909.0	2724.3	935.0	494.4	301.1	188.5	151.8	144.4	137.1	132.2	129.7
55°	4134.2	2841.8	954.6	484.7	271.7	171.3	144.4	137.1	127.3	122.4	119.9
57.5°	4393.7	2986.2	976.6	465.1	239.9	156.7	137.1	127.3	112.6	105.3	102.8
60°	4640.9	3150.2	1001.1	418.6	208.1	142.0	129.7	115.0	100.4	95.5	93.0
62.5°	4873.4	3311.8	1013.4	335.3	176.2	129.7	122.4	105.3	90.6	85.7	83.2
65°	5022.8	3488.0	986.4	227.6	144.4	119.9	112.6	97.9	83.2	75.9	75.9
67.5°	5032.5	3571.2	893.4	149.3	117.5	107.7	102.8	88.1	73.4	68.5	66.1
70°	4785.3	3446.4	682.9	117.5	97.9	93.0	93.0	78.3	63.6	58.7	56.3
72.5°	4217.4	3052.3	435.7	95.5	83.2	78.3	78.3	66.1	56.3	49.0	46.5
75°	3328.9	2354.7	232.5	78.3	68.5	66.1	61.2	53.9	46.5	41.6	39.2
77.5°	1529.8	1037.8	107.7	56.3	51.4	51.4	46.5	39.2	36.7	31.8	31.8
80°	604.6	352.5	53.9	36.7	34.3	34.3	34.3	26.9	26.9	22.0	19.6
82.5°	166.4	73.4	26.9	22.0	22.0	22.0	19.6	17.1	17.1	14.7	14.7
85°	17.1	12.2	12.2	12.2	12.2	9.8	9.8	7.3	4.9	4.9	4.9
87.5°	7.3	7.3	7.3	7.3	7.3	4.9	2.4	0.0	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)