

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: P836090

Luminaire Tested: **ARCH3-140-722-U-T2R-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836090
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: ARCH3-140-722-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1110mA 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: 12594 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 142.5
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



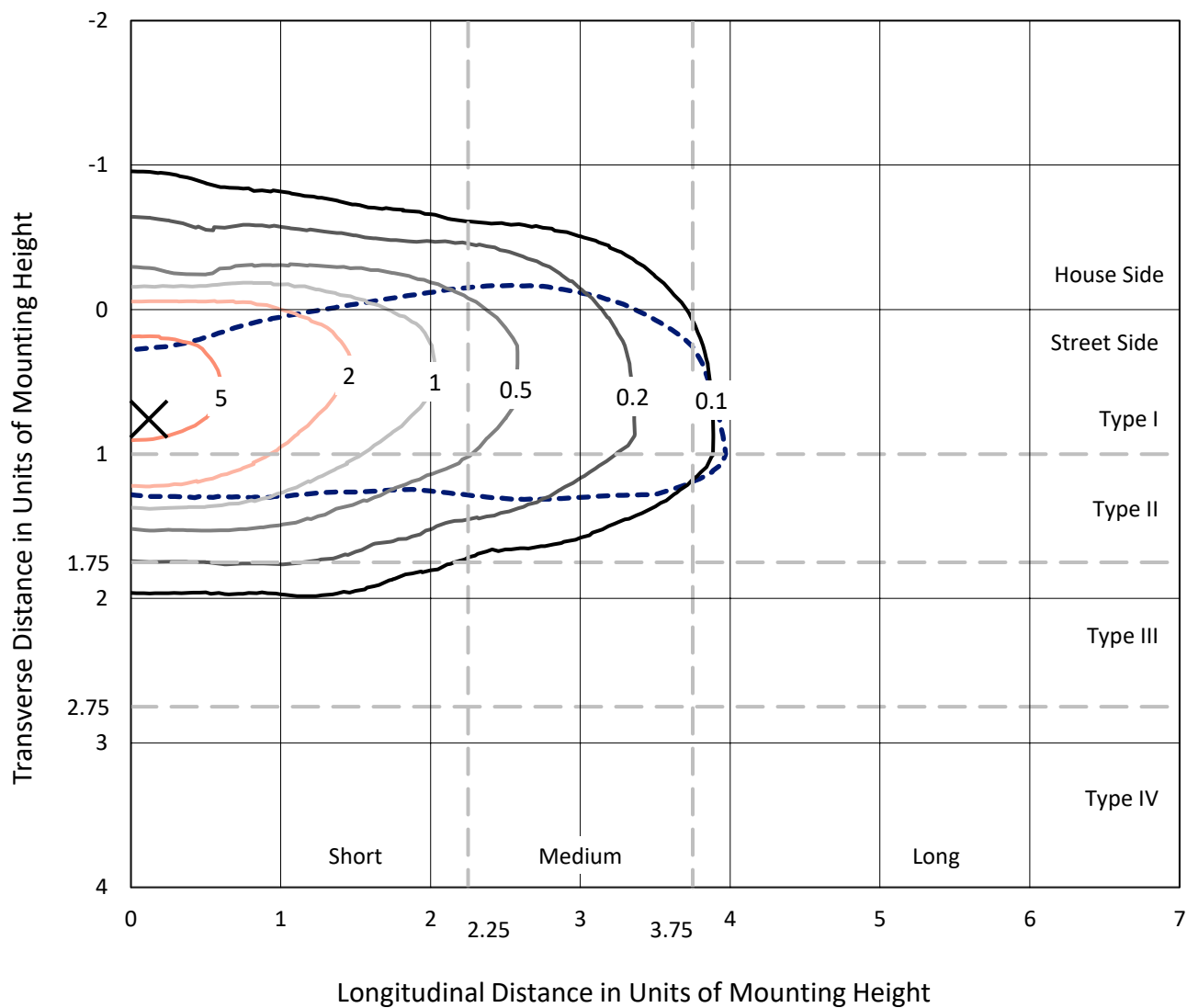
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

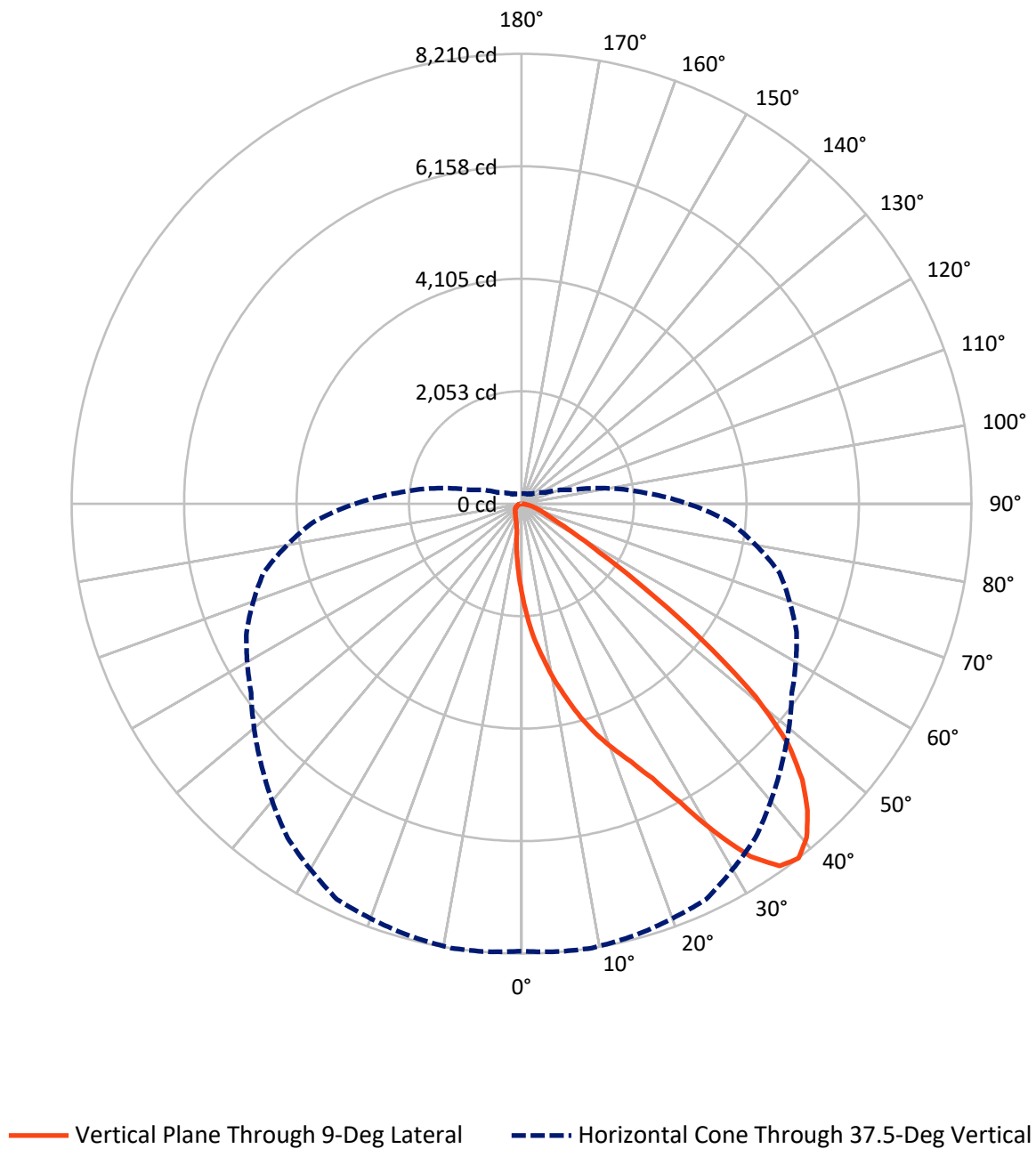
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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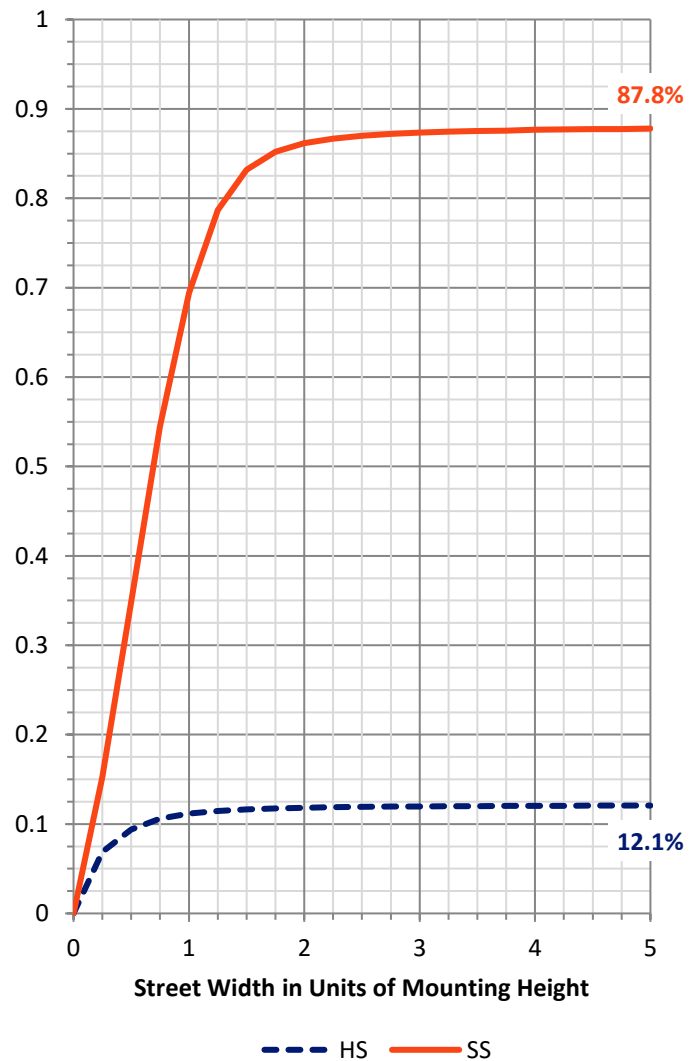
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1531.7	0.0	1531.7
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	11062.3	0.0	11062.3
	% Fixture	87.8	0.0	87.8
Total	Lumens	12594.0	0.0	12594.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.3	1.3
10°-20°	581.6	4.6
20°-30°	1195.1	9.5
30°-40°	2112.4	16.8
40°-50°	2806.1	22.3
50°-60°	2661.4	21.1
60°-70°	2030.4	16.1
70°-80°	984.3	7.8
80°-90°	55.4	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°	12594.0	100.0
0°-180°	12594.0	100.0

Coefficient of Utilization



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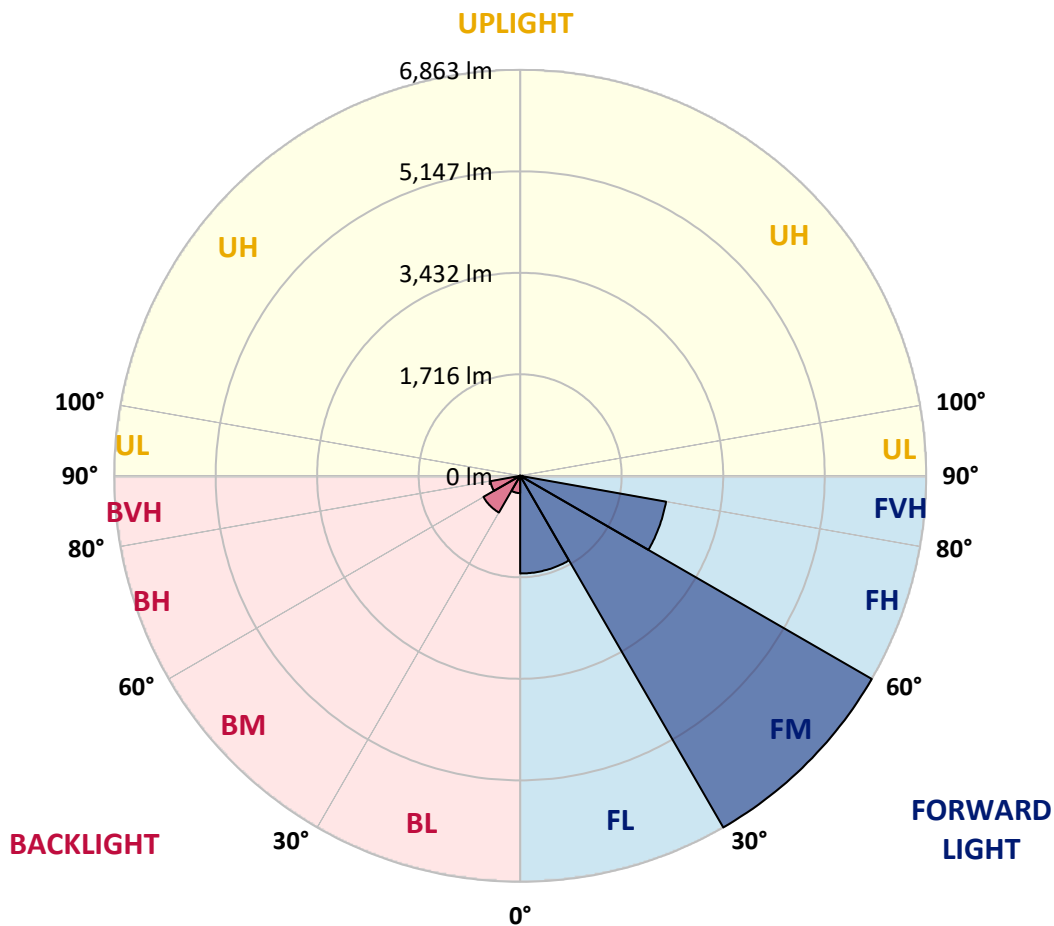
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1651.7	13.1			
FM	(30°-60°)	6863.1	54.5			
FH	(60°-80°)	2503.6	19.9			G2/5000
FVH	(80°-90°)	43.9	0.3			G1/100
BL	(0°-30°)	292.3	2.3	B1/500		
BM	(30°-60°)	716.7	5.7	B1/1000		
BH	(60°-80°)	511.1	4.1	B2/1000		G2/1000
BVH	(80°-90°)	11.5	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1664.8	1664.8	1664.8	1664.8	1664.8	1664.8	1664.8	1664.8	1664.8	1664.8	1664.8
2.5°	2062.9	2026.7	2068.0	2062.9	2026.7	2003.4	1931.0	1907.8	1822.5	1760.4	1706.1
5°	2486.8	2450.6	2486.8	2476.5	2424.8	2367.9	2249.0	2171.4	2018.9	1884.5	1763.0
7.5°	2838.4	2838.4	2853.9	2856.5	2794.4	2706.6	2559.2	2442.9	2228.3	2021.5	1827.6
10°	3218.4	3221.0	3254.6	3231.3	3148.6	3029.7	2843.6	2696.2	2437.7	2166.3	1889.7
12.5°	3624.2	3626.8	3637.2	3626.8	3528.6	3376.1	3151.2	2957.3	2660.0	2331.7	1975.0
15°	4030.1	4032.7	4045.6	4027.5	3918.9	3740.6	3484.7	3246.8	2895.3	2517.8	2078.4
17.5°	4410.1	4415.3	4425.6	4402.3	4288.6	4076.6	3815.5	3528.6	3146.0	2716.9	2194.7
20°	4751.3	4756.5	4764.3	4733.2	4619.5	4407.5	4125.7	3825.9	3401.9	2921.1	2321.4
22.5°	5095.1	5100.3	5113.2	5071.9	4945.2	4702.2	4425.6	4115.4	3673.4	3146.0	2468.7
25°	5534.6	5539.8	5550.1	5490.7	5317.5	5033.1	4741.0	4423.0	3968.1	3399.3	2649.7
27.5°	6178.3	6173.1	6173.1	6064.5	5767.3	5397.6	5058.9	4735.8	4286.0	3670.8	2848.7
30°	6974.5	6961.5	6953.8	6806.4	6382.5	5808.6	5384.7	5027.9	4591.1	3957.7	3063.3
32.5°	7687.9	7687.9	7672.4	7517.3	7067.5	6361.8	5731.1	5312.3	4885.8	4247.2	3285.6
35°	8109.3	8127.4	8119.7	8003.3	7675.0	6956.4	6199.0	5653.5	5196.0	4549.7	3551.9
37.5°	8166.2	8202.4	8210.1	8140.3	7967.1	7442.4	6718.6	6023.2	5537.2	4875.4	3810.4
40°	7936.1	8013.7	8013.7	8003.3	7941.3	7672.4	7155.4	6452.3	5888.8	5214.1	4071.5
42.5°	7582.0	7662.1	7651.8	7690.5	7675.0	7618.2	7401.0	6853.0	6240.3	5563.0	4309.3
45°	7119.2	7202.0	7181.3	7251.1	7282.1	7344.1	7375.2	7132.2	6586.7	5943.0	4575.5
47.5°	6377.3	6516.9	6547.9	6672.0	6801.3	6995.2	7142.5	7233.0	6909.8	6351.5	4865.1
50°	5281.3	5477.7	5539.8	5800.9	6155.0	6555.7	6793.5	7108.9	7137.3	6770.3	5177.9
52.5°	3781.9	4009.4	4105.1	4534.2	5263.2	5961.1	6390.3	6834.9	7225.2	7170.9	5516.5
55°	2445.5	2639.3	2732.4	3135.7	4105.1	5201.1	5914.6	6480.7	7176.1	7538.0	5904.3
57.5°	1507.1	1618.2	1680.3	2026.7	2918.5	4226.6	5291.6	6155.0	7026.2	7856.0	6307.5
60°	1015.9	1080.6	1111.6	1274.4	1982.7	3158.9	4436.0	5813.8	6829.7	8070.5	6674.6
62.5°	674.7	695.4	726.4	827.2	1308.0	2218.0	3407.1	5203.7	6682.4	8083.5	6946.0
65°	522.2	532.5	545.4	589.4	806.5	1551.0	2396.3	4216.2	6462.6	7809.4	7031.3
67.5°	411.0	421.4	436.9	460.1	584.2	1052.1	1631.2	3089.1	6012.8	7380.3	6891.8
70°	323.1	330.9	341.2	361.9	455.0	762.6	1078.0	2052.5	5105.5	6971.9	6452.3
72.5°	255.9	263.7	274.0	294.7	369.7	558.4	739.3	1279.6	3937.0	6473.0	5607.0
75°	201.6	206.8	214.6	235.2	297.3	434.3	501.5	765.2	2675.5	5560.4	4368.7
77.5°	100.8	124.1	142.2	162.9	217.1	299.9	333.5	423.9	1129.7	2853.9	2083.6
80°	59.5	72.4	77.6	90.5	142.2	181.0	181.0	170.6	356.7	1096.1	850.5
82.5°	33.6	46.5	49.1	51.7	85.3	103.4	82.7	62.0	72.4	367.1	248.2
85°	10.3	15.5	18.1	20.7	28.4	31.0	28.4	25.9	20.7	36.2	23.3
87.5°	0.0	0.0	0.0	0.0	2.6	5.2	5.2	5.2	7.8	7.8	7.8
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°	1664.8	1664.8	1664.8	1664.8	1664.8	1664.8	1664.8	1664.8	1664.8	1664.8	1664.8
2.5°	1675.1	1641.5	1576.9	1517.4	1460.6	1419.2	1380.4	1344.2	1318.4	1297.7	1295.1
5°	1698.4	1631.2	1507.1	1390.8	1284.8	1196.9	1121.9	1062.5	1018.5	987.5	984.9
7.5°	1729.4	1626.0	1437.3	1264.1	1106.4	979.7	871.2	791.0	734.2	710.9	692.8
10°	1755.3	1620.8	1367.5	1137.4	930.6	770.3	641.1	561.0	519.6	504.1	496.3
12.5°	1799.2	1626.0	1308.0	1021.1	778.1	589.4	491.2	447.2	429.1	416.2	413.6
15°	1863.8	1649.3	1251.2	907.4	623.0	475.6	418.8	390.3	372.2	369.7	367.1
17.5°	1928.4	1669.9	1199.5	791.0	517.0	413.6	374.8	351.6	338.6	336.1	336.1
20°	2003.4	1695.8	1142.6	679.9	442.0	372.2	341.2	323.1	307.6	305.0	305.0
22.5°	2091.3	1732.0	1088.3	581.6	392.9	341.2	315.4	294.7	281.8	279.2	279.2
25°	2210.2	1786.3	1044.4	509.3	359.3	315.4	292.1	274.0	263.7	258.5	258.5
27.5°	2342.1	1861.2	1013.3	465.3	336.1	294.7	271.4	255.9	245.6	240.4	240.4
30°	2489.4	1944.0	992.7	447.2	323.1	276.6	255.9	240.4	227.5	224.9	224.9
32.5°	2652.3	2039.6	979.7	449.8	320.5	263.7	240.4	224.9	214.6	209.4	209.4
35°	2833.2	2145.6	972.0	465.3	325.7	253.3	227.5	212.0	201.6	196.5	196.5
37.5°	3034.9	2269.7	972.0	480.8	338.6	250.8	214.6	199.0	191.3	186.1	186.1
40°	3223.6	2401.5	982.3	498.9	351.6	250.8	204.2	191.3	181.0	175.8	175.8
42.5°	3370.9	2476.5	990.1	517.0	359.3	248.2	193.9	181.0	173.2	168.0	168.0
45°	3538.9	2556.6	974.6	524.8	359.3	243.0	186.1	173.2	165.4	160.3	160.3
47.5°	3725.1	2654.8	972.0	529.9	351.6	232.7	178.4	165.4	160.3	155.1	155.1
50°	3913.8	2763.4	977.2	527.4	341.2	217.1	168.0	160.3	152.5	147.3	147.3
52.5°	4128.3	2877.2	987.5	522.2	318.0	199.0	160.3	152.5	144.8	139.6	137.0
55°	4366.2	3001.2	1008.2	511.8	286.9	181.0	152.5	144.8	134.4	129.3	126.7
57.5°	4640.2	3153.8	1031.4	491.2	253.3	165.4	144.8	134.4	118.9	111.2	108.6
60°	4901.3	3327.0	1057.3	442.0	219.7	149.9	137.0	121.5	106.0	100.8	98.2
62.5°	5146.8	3497.6	1070.2	354.2	186.1	137.0	129.3	111.2	95.6	90.5	87.9
65°	5304.5	3683.7	1041.8	240.4	152.5	126.7	118.9	103.4	87.9	80.1	80.1
67.5°	5314.9	3771.6	943.5	157.7	124.1	113.7	108.6	93.1	77.6	72.4	69.8
70°	5053.8	3639.8	721.2	124.1	103.4	98.2	98.2	82.7	67.2	62.0	59.5
72.5°	4454.0	3223.6	460.1	100.8	87.9	82.7	82.7	69.8	59.5	51.7	49.1
75°	3515.7	2486.8	245.6	82.7	72.4	69.8	64.6	56.9	49.1	43.9	41.4
77.5°	1615.7	1096.1	113.7	59.5	54.3	54.3	49.1	41.4	38.8	33.6	33.6
80°	638.5	372.2	56.9	38.8	36.2	36.2	36.2	28.4	28.4	23.3	20.7
82.5°	175.8	77.6	28.4	23.3	23.3	23.3	20.7	18.1	18.1	15.5	15.5
85°	18.1	12.9	12.9	12.9	12.9	10.3	10.3	7.8	5.2	5.2	5.2
87.5°	7.8	7.8	7.8	7.8	7.8	5.2	2.6	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)