

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: P800132

Luminaire Tested: **ARCH2-80-727-U-T2U-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P800132
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-80-727-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 630mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7108 lumens
Efficiency: N/A
Efficacy: 84.3 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 84.3
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

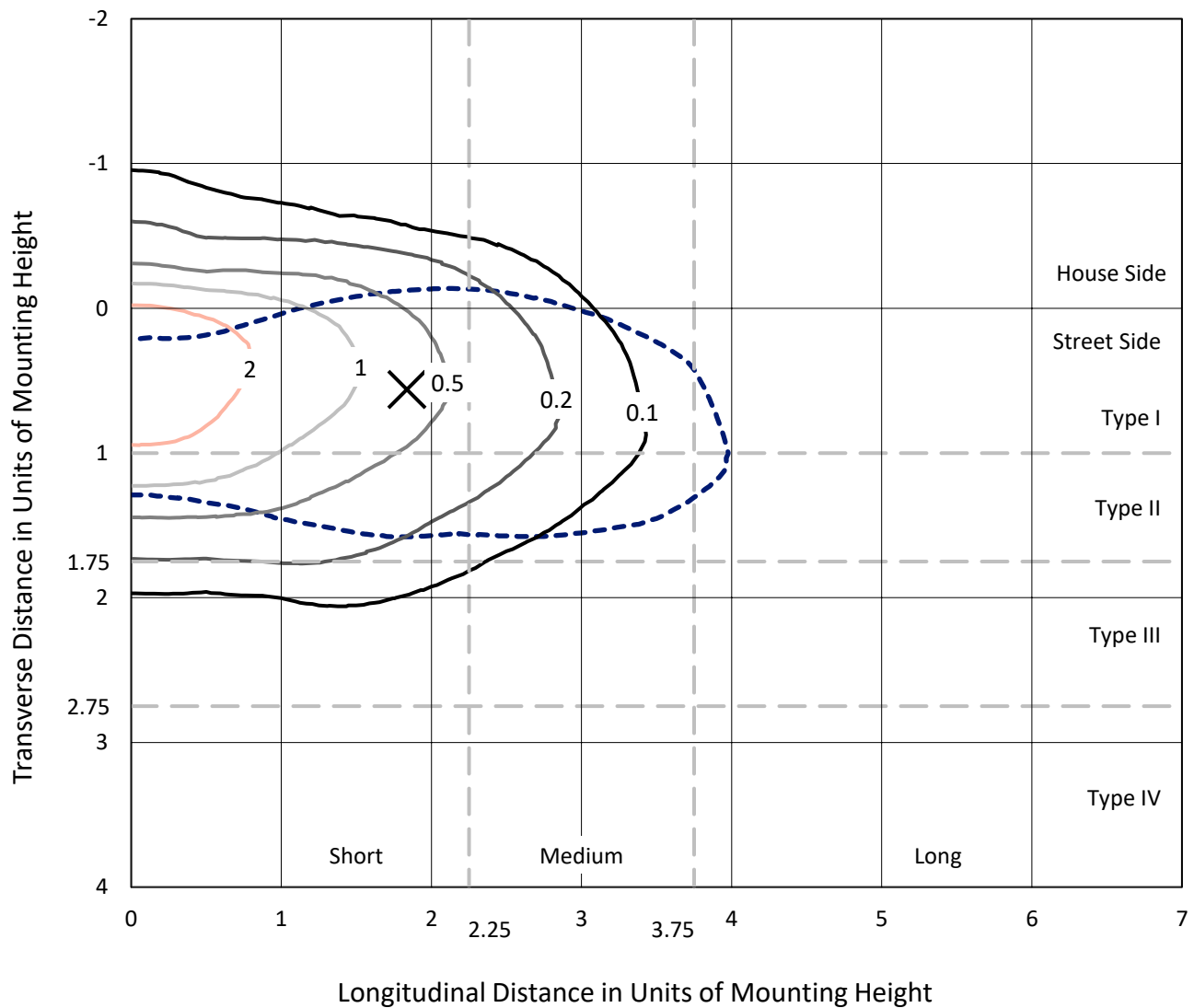


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

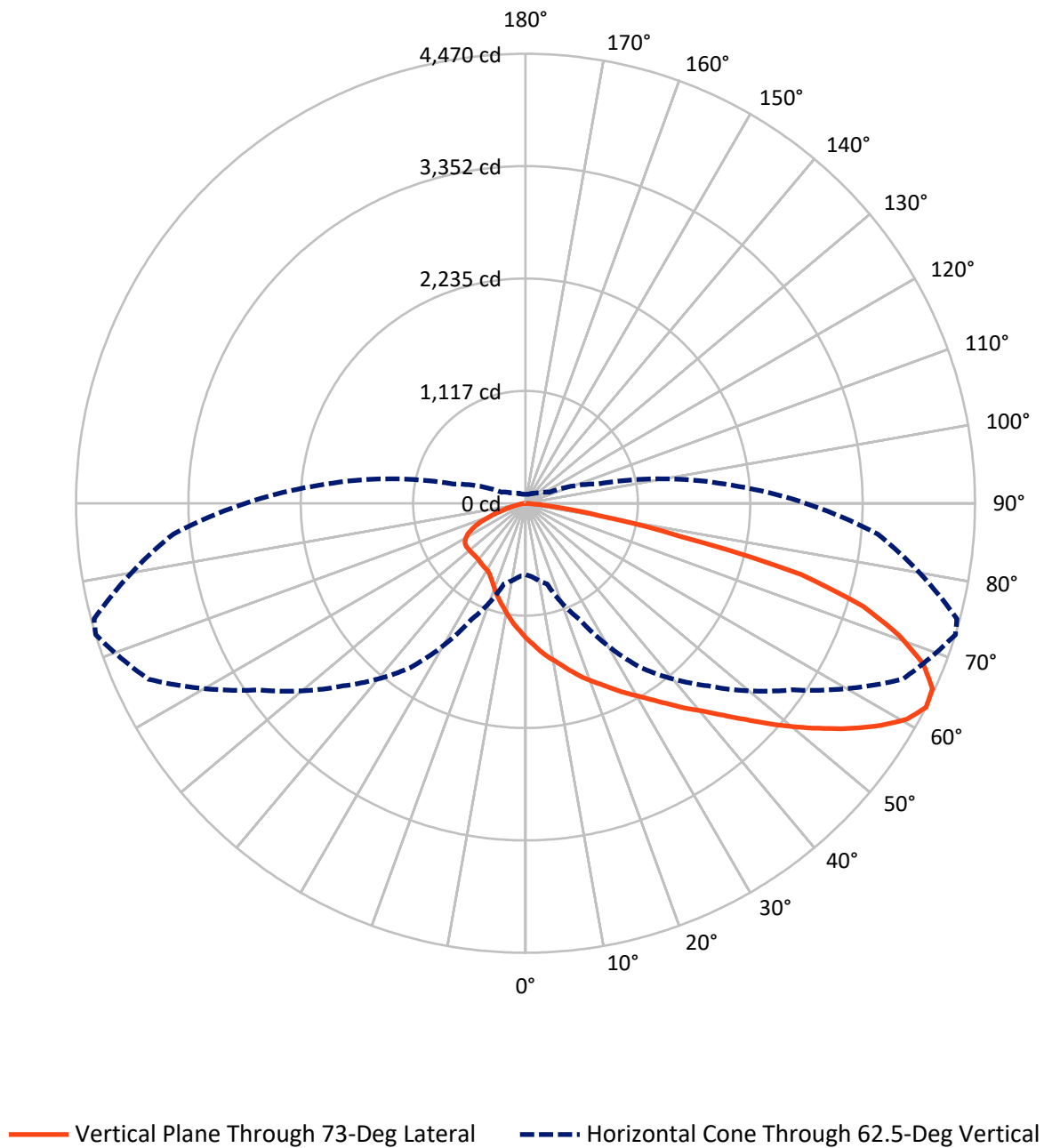


Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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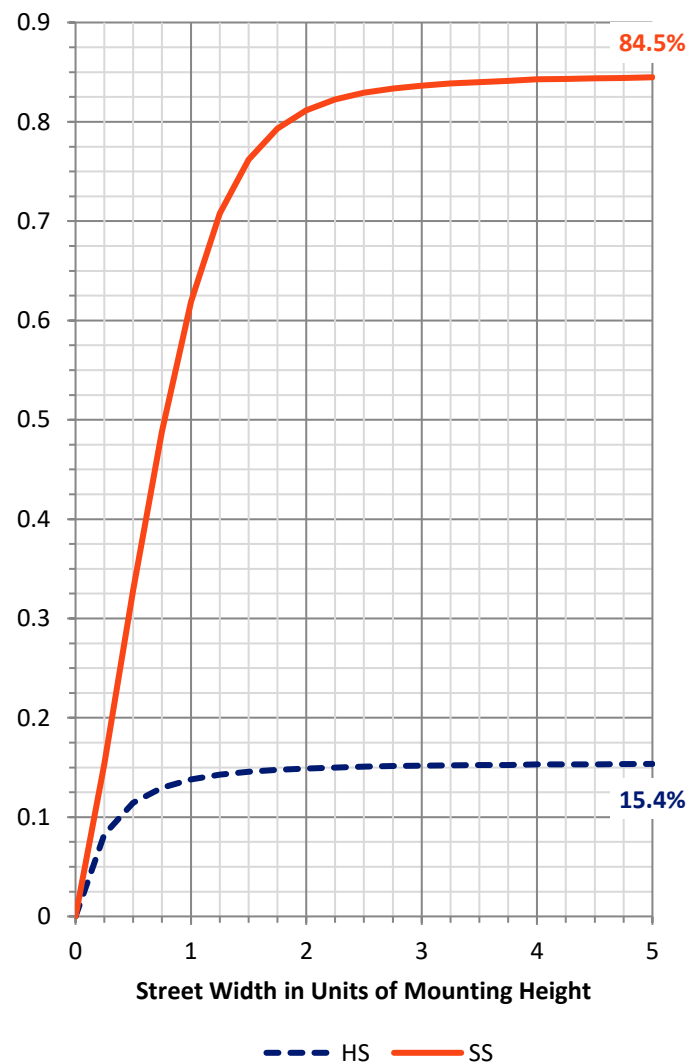
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1101.8	0.0	1101.8
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	6006.2	0.0	6006.2
	% Fixture	84.5	0.0	84.5
Total	Lumens	7108.0	0.0	7108.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.0	1.8
10°-20°	392.3	5.5
20°-30°	653.1	9.2
30°-40°	985.4	13.9
40°-50°	1377.3	19.4
50°-60°	1521.3	21.4
60°-70°	1325.3	18.6
70°-80°	669.5	9.4
80°-90°	53.7	0.8
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°	7108.0	100.0
0°-180°	7108.0	100.0

Coefficient of Utilization



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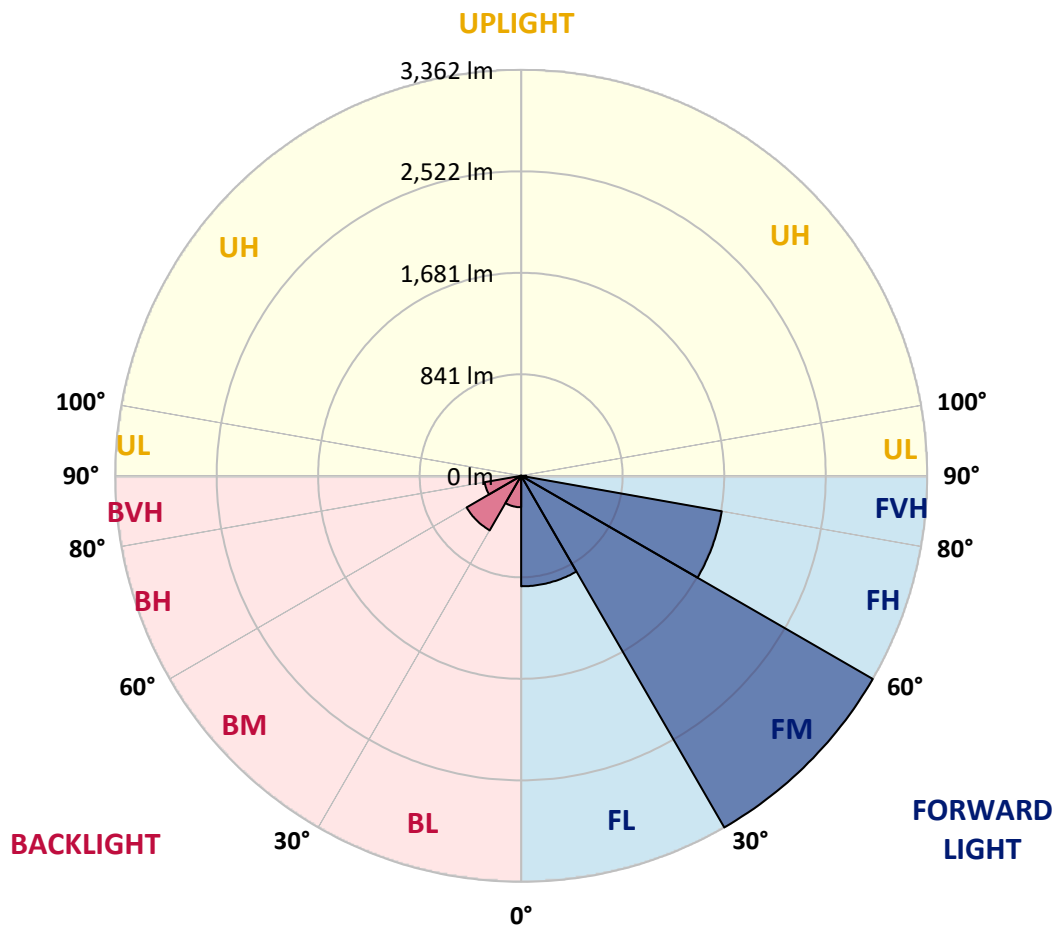
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	915.0	12.9			
FM	(30°-60°)	3362.3	47.3			
FH	(60°-80°)	1687.2	23.7			G1/1800
FVH	(80°-90°)	41.6	0.6			G1/100
BL	(0°-30°)	260.4	3.7	B1/500		
BM	(30°-60°)	521.7	7.3	B1/1000		
BH	(60°-80°)	307.5	4.3	B1/500		G1/500
BVH	(80°-90°)	12.1	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	1345.9	1345.9	1345.9	1345.9	1345.9	1345.9	1345.9	1345.9	1345.9	1345.9	1345.9
2.5°	1531.8	1548.8	1539.5	1545.7	1514.7	1494.6	1471.4	1426.5	1401.7	1398.6	1369.1
5°	1756.3	1774.9	1759.4	1754.8	1700.6	1654.1	1601.5	1522.5	1469.8	1460.5	1395.5
7.5°	1980.9	1998.0	1979.4	1965.4	1892.6	1810.6	1733.1	1617.0	1534.9	1519.4	1417.2
10°	2138.9	2154.4	2140.5	2126.5	2050.6	1967.0	1857.0	1705.2	1593.7	1568.9	1431.1
12.5°	2258.2	2267.5	2261.3	2248.9	2177.6	2087.8	1982.5	1804.4	1660.3	1629.3	1452.8
15°	2355.7	2371.2	2363.5	2354.2	2286.0	2196.2	2095.5	1908.1	1737.8	1699.0	1485.3
17.5°	2420.8	2431.6	2433.2	2433.2	2372.8	2284.5	2186.9	2002.6	1815.2	1765.6	1516.3
20°	2450.2	2462.6	2470.4	2482.7	2433.2	2357.3	2258.2	2083.1	1888.0	1832.2	1545.7
22.5°	2464.2	2475.0	2495.1	2523.0	2482.7	2419.2	2327.9	2157.5	1960.8	1901.9	1579.8
25°	2475.0	2488.9	2518.4	2571.0	2543.1	2488.9	2409.9	2242.7	2047.5	1987.1	1629.3
27.5°	2504.4	2521.5	2549.3	2612.8	2578.8	2552.4	2496.7	2334.1	2138.9	2077.0	1689.8
30°	2606.6	2620.6	2619.0	2659.3	2617.5	2609.7	2571.0	2422.3	2227.2	2165.2	1761.0
32.5°	2792.5	2806.4	2772.4	2756.9	2665.5	2667.0	2651.6	2516.8	2332.5	2269.0	1843.1
35°	2992.3	3007.8	2962.9	2936.5	2783.2	2738.3	2746.0	2634.5	2450.2	2386.7	1945.3
37.5°	3170.4	3189.0	3150.3	3111.6	2956.7	2852.9	2851.4	2766.2	2585.0	2519.9	2058.4
40°	3268.0	3289.7	3312.9	3291.2	3128.6	3014.0	2964.4	2900.9	2718.2	2651.6	2180.7
42.5°	3314.5	3374.9	3416.7	3402.7	3269.5	3153.4	3094.5	3041.9	2880.8	2815.7	2326.3
45°	3184.4	3185.9	3274.2	3350.1	3325.3	3247.9	3237.0	3199.8	3066.6	3004.7	2490.5
47.5°	3021.7	3009.3	3071.3	3206.0	3275.7	3295.9	3359.4	3374.9	3278.8	3216.9	2657.8
50°	2631.4	2639.2	2840.5	3034.1	3170.4	3300.5	3446.1	3554.5	3497.2	3438.4	2834.3
52.5°	2140.5	2159.0	2389.8	2815.7	3031.0	3254.0	3497.2	3734.2	3720.2	3664.5	3010.9
55°	1716.1	1745.5	1990.2	2451.8	2852.9	3150.3	3518.9	3898.4	3951.0	3899.9	3184.4
57.5°	1311.8	1342.8	1548.8	2022.7	2625.2	2981.5	3503.4	4042.4	4166.3	4133.8	3343.9
60°	988.1	1019.1	1150.8	1640.2	2340.3	2792.5	3426.0	4136.9	4359.9	4325.8	3460.0
62.5°	707.8	732.6	830.2	1276.2	1993.3	2567.9	3235.5	4138.4	4469.9	4442.0	3515.8
65°	509.6	509.6	588.5	910.7	1668.1	2298.4	2947.4	3947.9	4446.6	4438.9	3477.1
67.5°	367.1	370.2	433.7	636.6	1330.4	1971.6	2574.1	3608.7	4267.0	4305.7	3337.7
70°	260.2	267.9	297.4	444.5	1005.2	1556.6	2174.5	3164.2	3943.3	4011.4	3068.2
72.5°	201.3	206.0	226.1	309.8	734.1	1157.0	1733.1	2668.6	3511.1	3588.6	2701.1
75°	154.9	159.5	175.0	227.7	526.6	811.6	1231.3	2070.8	2831.2	2969.1	2169.9
77.5°	113.1	119.3	130.1	165.7	306.7	515.8	746.5	1164.7	1562.7	1627.8	1136.8
80°	52.7	60.4	75.9	106.9	165.7	243.2	264.8	449.2	751.2	785.2	616.4
82.5°	29.4	37.2	43.4	65.0	83.6	86.7	89.8	113.1	283.4	312.9	258.7
85°	13.9	18.6	20.1	27.9	27.9	24.8	29.4	21.7	46.5	55.8	54.2
87.5°	0.0	1.5	3.1	7.7	6.2	4.6	4.6	4.6	4.6	6.2	4.6
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°	1345.9	1345.9	1345.9	1345.9	1345.9	1345.9	1345.9	1345.9	1345.9	1345.9	1345.9
2.5°	1355.2	1335.1	1288.6	1248.3	1222.0	1198.8	1167.8	1153.9	1129.1	1133.7	1119.8
5°	1363.0	1325.8	1243.7	1167.8	1112.0	1062.5	1008.3	977.3	943.2	940.1	929.3
7.5°	1367.6	1310.3	1192.6	1085.7	1000.5	924.6	851.8	811.6	769.8	760.5	751.2
10°	1363.0	1287.1	1139.9	1000.5	887.5	793.0	710.9	659.8	616.4	605.6	596.3
12.5°	1367.6	1274.7	1090.4	921.5	786.8	679.9	587.0	534.3	494.1	483.2	477.0
15°	1378.4	1266.9	1048.5	850.3	697.0	577.7	486.3	441.4	408.9	398.0	394.9
17.5°	1387.7	1259.2	1003.6	780.6	607.1	487.9	408.9	371.7	343.8	333.0	329.9
20°	1400.1	1248.3	958.7	714.0	528.1	416.6	346.9	314.4	292.7	285.0	283.4
22.5°	1411.0	1240.6	916.9	647.4	455.3	359.3	300.5	274.1	258.7	250.9	250.9
25°	1438.8	1243.7	881.3	585.4	401.1	314.4	264.8	244.7	232.3	227.7	227.7
27.5°	1471.4	1256.1	853.4	532.8	354.7	280.3	240.1	223.0	216.8	210.6	212.2
30°	1517.8	1280.9	834.8	489.4	320.6	254.0	219.9	207.5	201.3	199.8	199.8
32.5°	1576.7	1321.1	833.3	461.5	295.8	233.9	206.0	195.1	192.1	190.5	190.5
35°	1646.4	1356.8	824.0	449.2	280.3	219.9	195.1	187.4	185.9	185.9	185.9
37.5°	1730.0	1415.6	817.8	432.1	272.6	212.2	187.4	181.2	181.2	181.2	181.2
40°	1816.8	1463.6	808.5	416.6	269.5	207.5	182.8	175.0	175.0	175.0	175.0
42.5°	1920.5	1533.3	805.4	408.9	264.8	204.4	176.6	167.3	168.8	168.8	170.4
45°	2046.0	1612.3	803.8	401.1	263.3	201.3	170.4	159.5	161.1	159.5	159.5
47.5°	2173.0	1703.7	808.5	396.5	261.7	198.2	165.7	151.8	151.8	150.2	150.2
50°	2306.2	1787.3	811.6	391.8	258.7	192.1	158.0	145.6	142.5	139.4	140.9
52.5°	2431.6	1864.8	813.1	384.1	249.4	182.8	151.8	137.8	133.2	128.6	130.1
55°	2557.1	1939.1	816.2	374.8	237.0	173.5	144.0	130.1	123.9	117.7	117.7
57.5°	2670.1	2004.2	808.5	351.6	223.0	164.2	136.3	120.8	111.5	105.3	105.3
60°	2747.6	2050.6	785.2	317.5	204.4	153.3	128.6	111.5	100.7	96.0	96.0
62.5°	2784.8	2058.4	743.4	261.7	181.2	142.5	119.3	102.2	92.9	89.8	89.8
65°	2749.1	2024.3	678.4	196.7	156.4	130.1	110.0	94.5	85.2	77.4	77.4
67.5°	2625.2	1928.3	588.5	148.7	133.2	117.7	100.7	86.7	75.9	69.7	69.7
70°	2375.9	1728.5	455.3	119.3	113.1	102.2	91.4	77.4	68.1	60.4	60.4
72.5°	2049.1	1465.2	320.6	96.0	96.0	86.7	77.4	68.1	58.9	52.7	52.7
75°	1572.0	1084.2	215.3	77.4	79.0	72.8	63.5	55.8	49.6	44.9	44.9
77.5°	858.0	535.9	131.6	57.3	58.9	55.8	49.6	44.9	41.8	37.2	37.2
80°	416.6	235.4	75.9	40.3	41.8	40.3	37.2	32.5	32.5	29.4	29.4
82.5°	175.0	88.3	40.3	27.9	27.9	24.8	23.2	23.2	23.2	21.7	21.7
85°	43.4	17.0	17.0	15.5	15.5	15.5	13.9	13.9	13.9	10.8	12.4
87.5°	6.2	6.2	6.2	6.2	6.2	6.2	4.6	1.5	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)