

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: P799256

Luminaire Tested: **ARCH2-100-730-U-T4W-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799256
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-27)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-100-730-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 760mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8749 lumens
Efficiency: N/A
Efficacy: 84.7 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 103.3
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



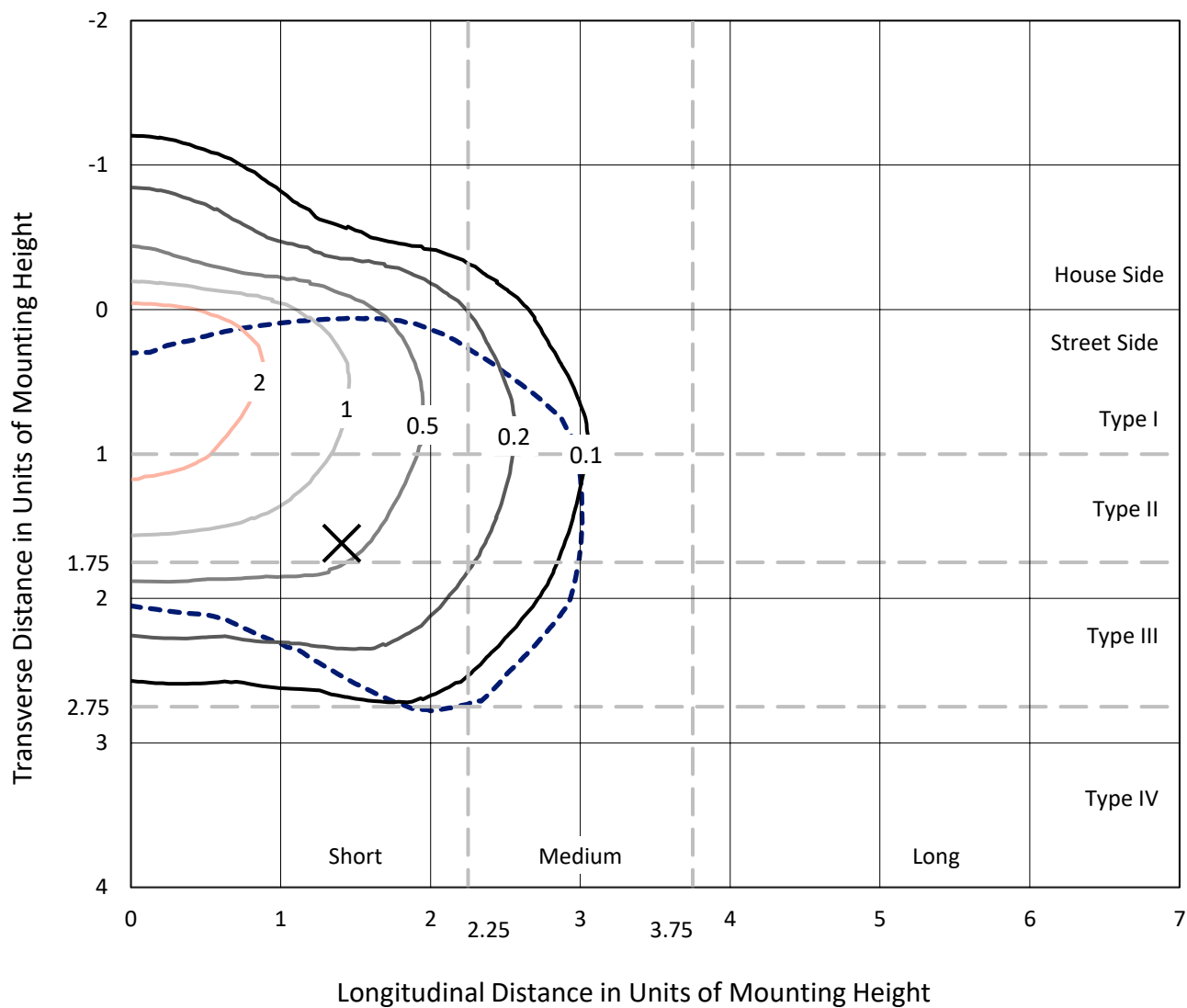
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

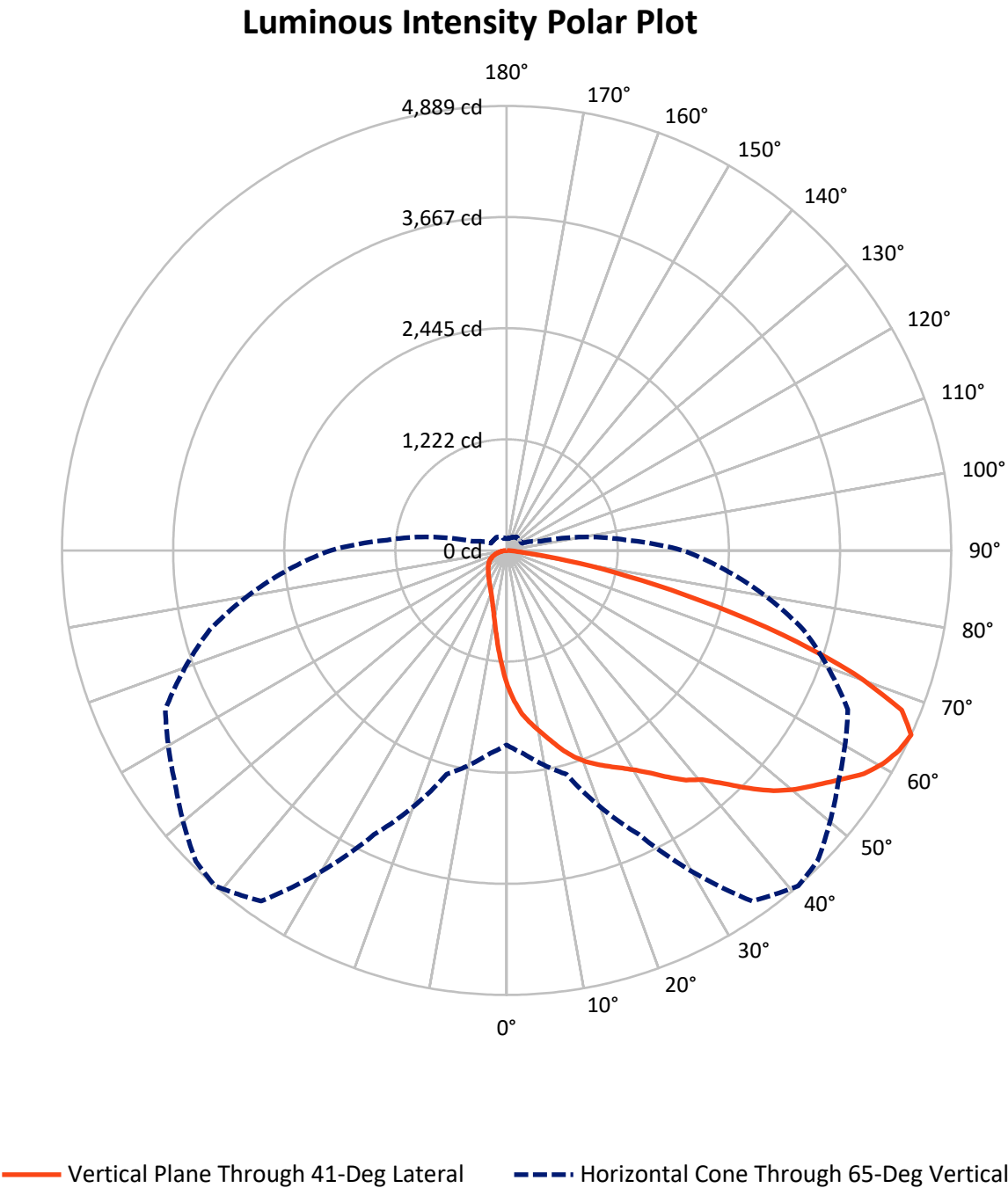
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc

Type III - Short - N/A

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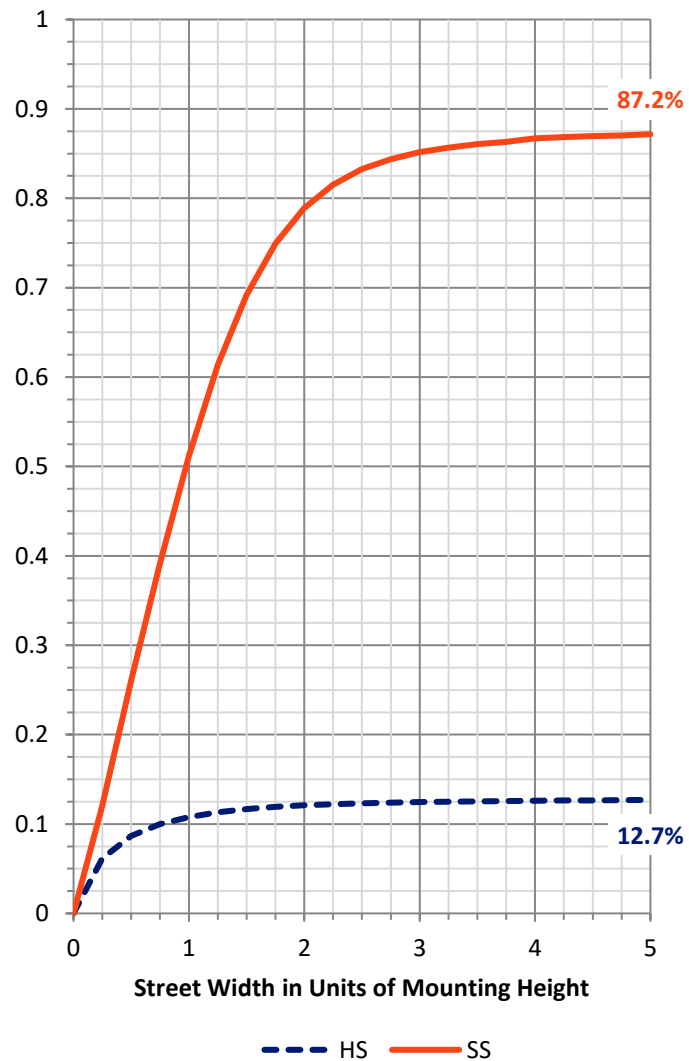
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1123.2	0.0	1123.2
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	7625.8	0.0	7625.8
	% Fixture	87.2	0.0	87.2
Total	Lumens	8749.0	0.0	8749.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.9	1.6
10°-20°	416.5	4.8
20°-30°	716.5	8.2
30°-40°	1086.7	12.4
40°-50°	1592.1	18.2
50°-60°	2010.5	23.0
60°-70°	1885.2	21.5
70°-80°	840.2	9.6
80°-90°	62.2	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°	8749.0	100.0
0°-180°	8749.0	100.0

Coefficient of Utilization



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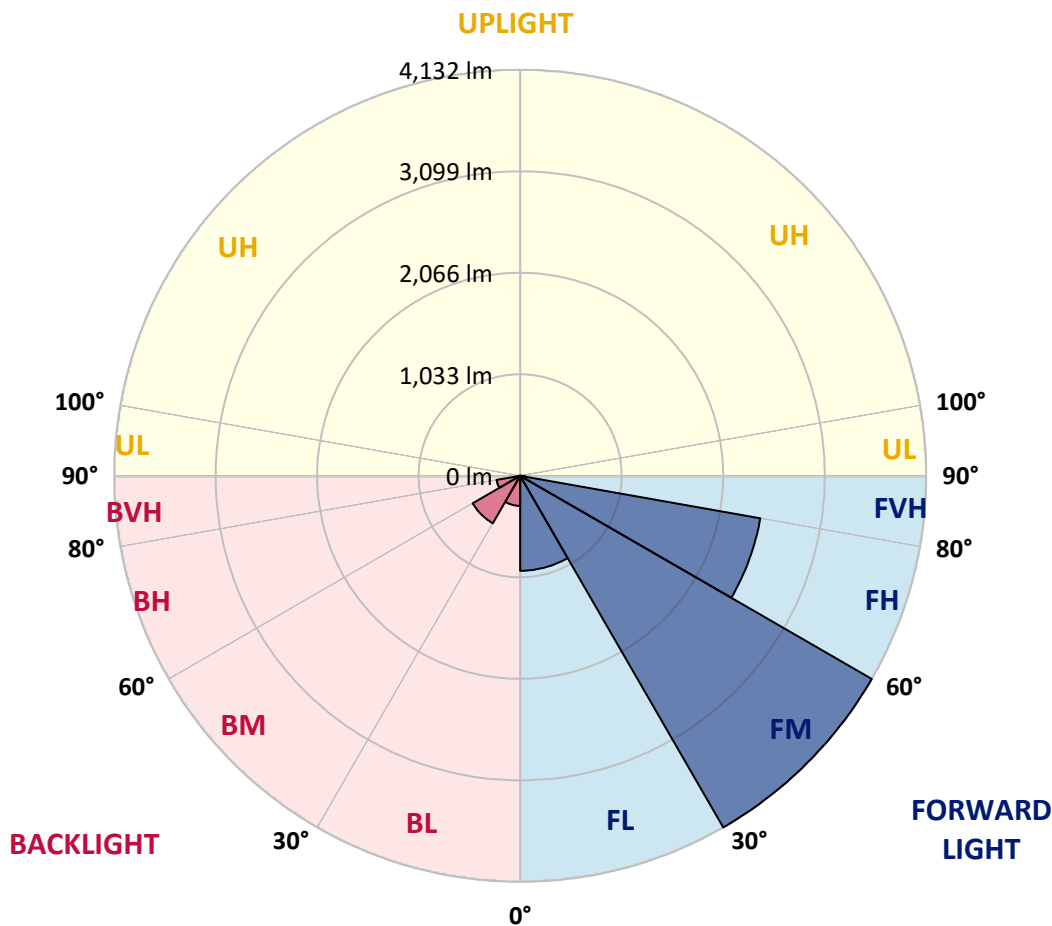
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	966.2	11.0			
FM	(30°-60°)	4131.6	47.2			
FH	(60°-80°)	2481.4	28.4			G2/5000
FVH	(80°-90°)	46.5	0.5			G1/100
BL	(0°-30°)	305.7	3.5	B1/500		
BM	(30°-60°)	557.7	6.4	B1/1000		
BH	(60°-80°)	244.0	2.8	B1/500		G1/500
BVH	(80°-90°)	15.8	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-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	1490.8	1490.8	1490.8	1490.8	1490.8	1490.8	1490.8	1490.8	1490.8	1490.8	1490.8
2.5°	1719.6	1714.0	1710.3	1690.0	1690.0	1662.4	1664.2	1638.4	1607.0	1557.2	1503.7
5°	1881.9	1874.6	1865.3	1845.0	1837.6	1810.0	1806.3	1769.4	1715.9	1629.2	1533.2
7.5°	2024.0	2016.6	2003.7	1974.2	1953.9	1920.7	1911.5	1863.5	1804.4	1697.4	1562.7
10°	2153.1	2147.6	2131.0	2094.1	2066.4	2025.8	2009.2	1944.7	1870.9	1752.8	1586.7
12.5°	2284.1	2276.8	2254.6	2223.3	2190.1	2142.1	2121.8	2038.8	1944.7	1813.7	1621.8
15°	2405.9	2394.8	2378.2	2345.0	2315.5	2269.4	2247.2	2149.5	2035.1	1881.9	1667.9
17.5°	2485.3	2476.0	2461.3	2442.8	2418.8	2383.8	2361.6	2265.7	2125.5	1948.4	1715.9
20°	2533.2	2529.5	2524.0	2512.9	2501.9	2477.9	2461.3	2370.9	2223.3	2012.9	1762.0
22.5°	2570.1	2566.4	2564.6	2564.6	2566.4	2557.2	2546.1	2468.6	2317.4	2081.2	1804.4
25°	2627.3	2625.5	2621.8	2618.1	2631.0	2632.9	2629.2	2575.7	2435.4	2171.6	1857.9
27.5°	2706.7	2701.1	2693.7	2690.1	2703.0	2712.2	2719.6	2682.7	2560.9	2263.9	1918.8
30°	2828.4	2811.8	2793.4	2780.5	2789.7	2804.4	2821.1	2798.9	2690.1	2378.2	1981.6
32.5°	2972.3	2952.0	2909.6	2885.6	2909.6	2920.7	2933.6	2922.5	2824.7	2501.9	2044.3
35°	3147.6	3123.6	3079.4	3044.3	3086.7	3062.7	3057.2	3046.1	2952.0	2623.6	2114.4
37.5°	3439.1	3404.1	3334.0	3256.5	3256.5	3204.8	3184.5	3151.3	3066.4	2732.5	2182.7
40°	3776.8	3730.6	3640.2	3525.9	3420.7	3313.7	3300.8	3276.8	3201.1	2858.0	2260.2
42.5°	4147.6	4059.1	3933.6	3795.2	3625.5	3503.7	3474.2	3405.9	3332.1	2985.3	2337.7
45°	4559.1	4374.6	4191.9	4121.8	3841.4	3730.6	3675.3	3551.7	3468.7	3118.1	2418.8
47.5°	4625.5	4481.6	4359.8	4348.7	4042.5	3950.2	3887.5	3710.4	3616.3	3260.2	2503.7
50°	4588.6	4501.9	4514.8	4470.5	4190.1	4129.2	4081.2	3880.1	3762.0	3396.7	2581.2
52.5°	4433.6	4481.6	4555.4	4474.2	4330.3	4280.5	4256.5	4062.8	3898.5	3522.2	2651.3
55°	4249.1	4282.3	4441.0	4540.6	4492.6	4448.4	4426.2	4274.9	4033.2	3627.3	2715.9
57.5°	3979.7	3965.0	4140.2	4529.5	4662.4	4636.6	4612.6	4483.4	4158.7	3703.0	2756.5
60°	3575.7	3544.3	3765.7	4308.1	4717.7	4758.3	4747.3	4621.8	4254.6	3701.1	2739.9
62.5°	2876.4	2953.9	3260.2	3946.5	4741.7	4845.0	4824.8	4632.9	4286.0	3594.1	2634.7
65°	2138.4	2249.1	2549.8	3448.4	4708.5	4889.3	4834.0	4452.1	4140.2	3381.9	2404.1
67.5°	1540.6	1638.4	1857.9	2837.7	4389.3	4686.4	4621.8	4156.9	3804.5	3081.2	2084.9
70°	1053.5	1123.6	1273.1	2066.4	3747.3	4051.7	4011.1	3715.9	3274.9	2723.3	1693.7
72.5°	743.5	773.1	869.0	1363.5	2846.9	3179.0	3131.0	3057.2	2631.0	2263.9	1317.4
75°	557.2	575.6	627.3	881.9	1920.7	2203.0	2158.7	2201.1	1965.0	1714.0	959.4
77.5°	210.3	228.8	356.1	562.7	1136.5	1352.4	1308.1	1334.0	1092.3	865.3	477.9
80°	57.2	60.9	118.1	267.5	516.6	673.4	612.5	525.8	405.9	398.5	252.8
82.5°	24.0	27.7	53.5	143.9	184.5	184.5	155.0	191.9	155.0	186.3	121.8
85°	9.2	11.1	12.9	36.9	24.0	25.8	27.7	36.9	31.4	38.7	27.7
87.5°	0.0	0.0	0.0	1.8	1.8	3.7	1.8	3.7	5.5	5.5	5.5
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°	1490.8	1490.8	1490.8	1490.8	1490.8	1490.8	1490.8	1490.8	1490.8	1490.8	1490.8
2.5°	1481.6	1461.3	1431.7	1383.8	1334.0	1306.3	1271.2	1265.7	1228.8	1225.1	1210.3
5°	1490.8	1448.3	1372.7	1280.5	1190.0	1119.9	1068.3	1040.6	987.1	987.1	972.3
7.5°	1498.2	1431.7	1310.0	1173.4	1049.8	955.7	885.6	856.1	808.1	804.4	793.4
10°	1500.0	1411.4	1241.7	1064.6	913.3	817.3	749.1	715.9	673.4	669.7	662.4
12.5°	1514.8	1400.4	1180.8	970.5	815.5	712.2	645.8	618.1	584.9	581.2	573.8
15°	1538.8	1400.4	1129.2	891.1	728.8	632.8	575.6	549.8	525.8	522.1	518.5
17.5°	1562.7	1396.7	1077.5	817.3	656.8	570.1	520.3	500.0	481.6	479.7	476.0
20°	1584.9	1394.8	1025.8	754.6	601.5	518.5	479.7	461.3	446.5	446.5	444.7
22.5°	1607.0	1391.2	976.0	695.6	553.5	479.7	446.5	426.2	415.1	415.1	413.3
25°	1640.2	1391.2	929.9	645.8	514.8	450.2	417.0	402.2	393.0	391.1	391.1
27.5°	1679.0	1402.2	889.3	601.5	481.6	420.7	394.8	380.1	369.0	365.3	367.2
30°	1721.4	1411.4	852.4	562.7	450.2	398.5	370.9	356.1	345.0	341.3	343.2
32.5°	1763.8	1422.5	819.2	527.7	418.8	378.2	350.6	334.0	322.9	321.0	321.0
35°	1810.0	1433.6	786.0	498.2	393.0	357.9	332.1	313.7	306.3	302.6	304.4
37.5°	1856.1	1452.0	754.6	470.5	374.5	339.5	315.5	297.0	291.5	289.7	289.7
40°	1911.5	1479.7	741.7	452.0	357.9	322.9	302.6	284.1	278.6	278.6	278.6
42.5°	1957.6	1501.9	730.6	431.7	345.0	308.1	289.7	274.9	271.2	269.4	271.2
45°	2003.7	1522.1	715.9	413.3	328.4	293.4	278.6	263.8	260.1	260.1	260.1
47.5°	2049.8	1533.2	695.6	394.8	313.7	280.4	267.5	254.6	250.9	250.9	250.9
50°	2086.7	1542.4	666.1	374.5	297.0	269.4	256.5	243.5	239.9	239.9	239.9
52.5°	2123.6	1544.3	634.7	350.6	280.4	256.5	245.4	232.5	228.8	226.9	226.9
55°	2156.8	1542.4	597.8	322.9	262.0	241.7	232.5	221.4	214.0	206.6	210.3
57.5°	2180.8	1540.6	555.4	295.2	243.5	226.9	223.2	208.5	193.7	175.3	179.0
60°	2171.6	1520.3	509.2	260.1	223.2	212.2	212.2	191.9	166.1	156.8	158.7
62.5°	2112.6	1463.1	461.3	223.2	203.0	197.4	195.6	173.4	153.1	143.9	145.8
65°	1935.4	1319.2	391.1	190.0	182.7	180.8	180.8	160.5	142.1	131.0	132.8
67.5°	1666.1	1107.0	319.2	160.5	162.4	166.1	166.1	147.6	129.2	118.1	119.9
70°	1335.8	865.3	254.6	138.4	140.2	145.8	149.4	132.8	116.2	105.2	105.2
72.5°	1005.5	656.8	204.8	116.2	125.5	125.5	131.0	118.1	101.5	90.4	92.3
75°	728.8	470.5	162.4	97.8	108.9	107.0	107.0	99.6	86.7	79.3	79.3
77.5°	345.0	247.2	129.2	70.1	84.9	83.0	84.9	79.3	73.8	66.4	68.3
80°	169.7	121.8	83.0	49.8	59.0	60.9	66.4	62.7	60.9	55.4	55.4
82.5°	81.2	48.0	38.7	35.1	40.6	42.4	46.1	46.1	48.0	44.3	44.3
85°	22.1	12.9	16.6	22.1	25.8	27.7	31.4	33.2	33.2	31.4	33.2
87.5°	5.5	5.5	7.4	11.1	12.9	14.8	16.6	16.6	7.4	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)