

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: P799412

Luminaire Tested: **ARCH2-110-740-U-T2U-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799412
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: ARCH2-110-740-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 800mA 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: 9209 lumens
Efficiency: N/A
Efficacy: 84.1 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 109.5
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

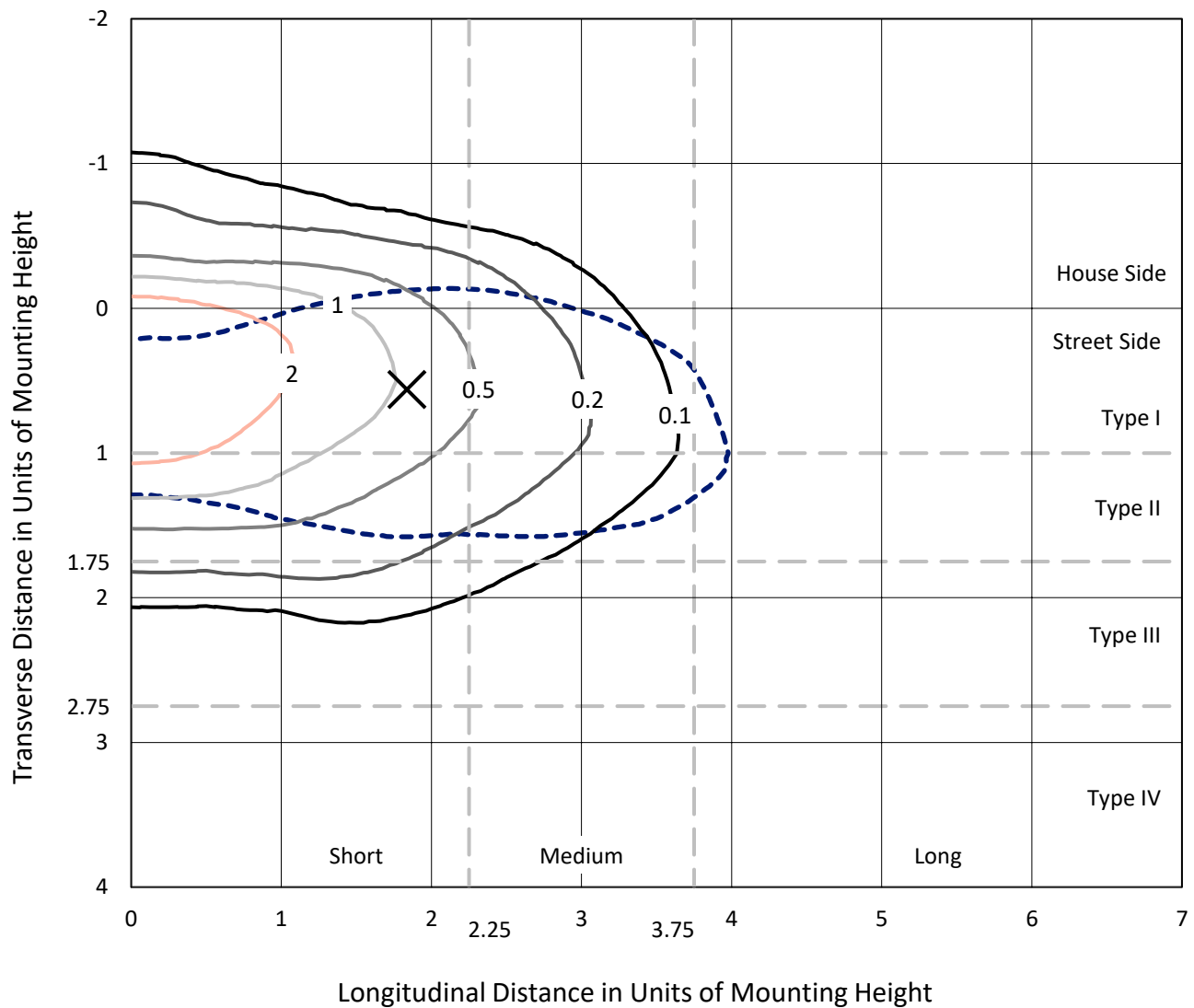


REPORT NUMBER: P799412

CATALOG NUMBER: ARCH2-110-740-U-T2U-HSS

Iso-Footcandle Lines of Horizontal Illumination

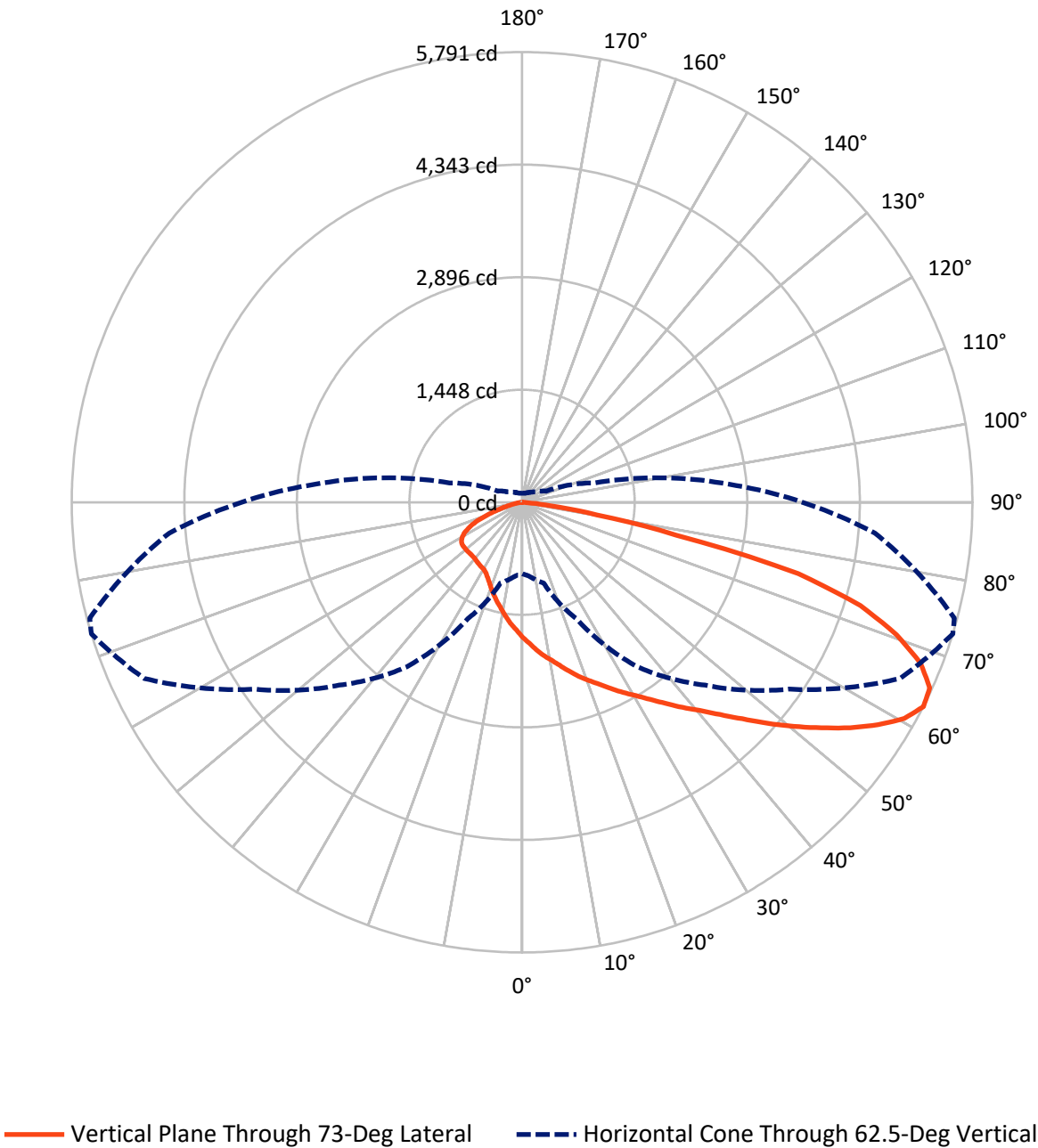
✕ Max cd
 --- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type II - Short - N/A

REPORT NUMBER: P799412
CATALOG NUMBER: ARCH2-110-740-U-T2U-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P799412

CATALOG NUMBER: ARCH2-110-740-U-T2U-HSS

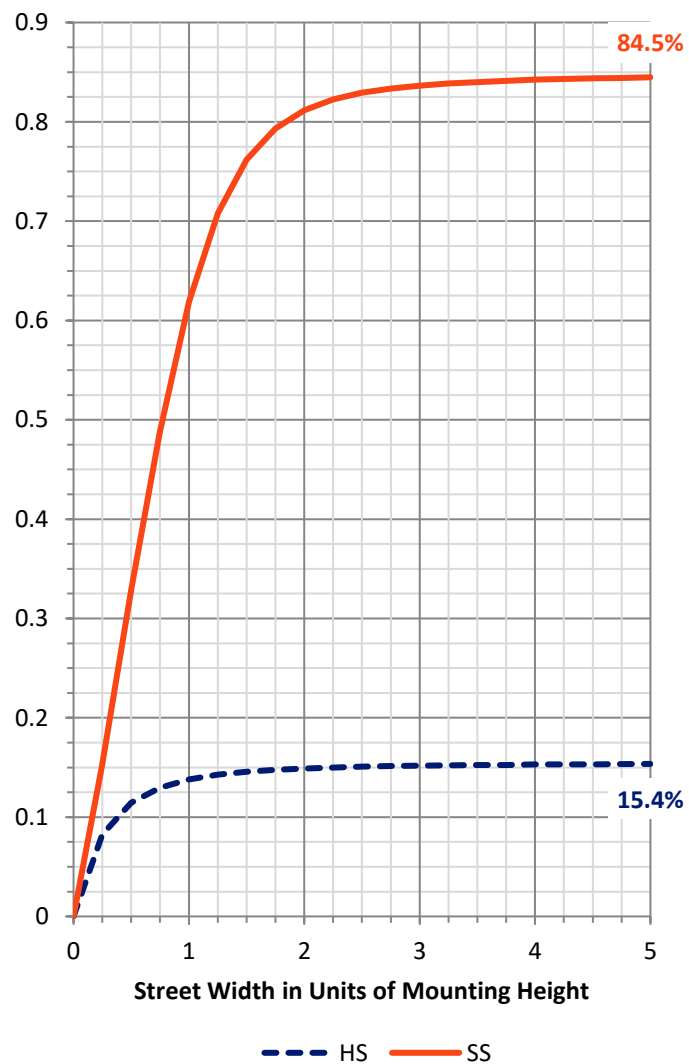
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1427.5	0.0	1427.5
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	7781.5	0.0	7781.5
	% Fixture	84.5	0.0	84.5
Total	Lumens	9209.0	0.0	9209.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.5	1.8
10°-20°	508.3	5.5
20°-30°	846.1	9.2
30°-40°	1276.7	13.9
40°-50°	1784.4	19.4
50°-60°	1971.0	21.4
60°-70°	1717.0	18.6
70°-80°	867.3	9.4
80°-90°	69.6	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°	9209.0	100.0
0°-180°	9209.0	100.0

Coefficient of Utilization



REPORT NUMBER: P799412

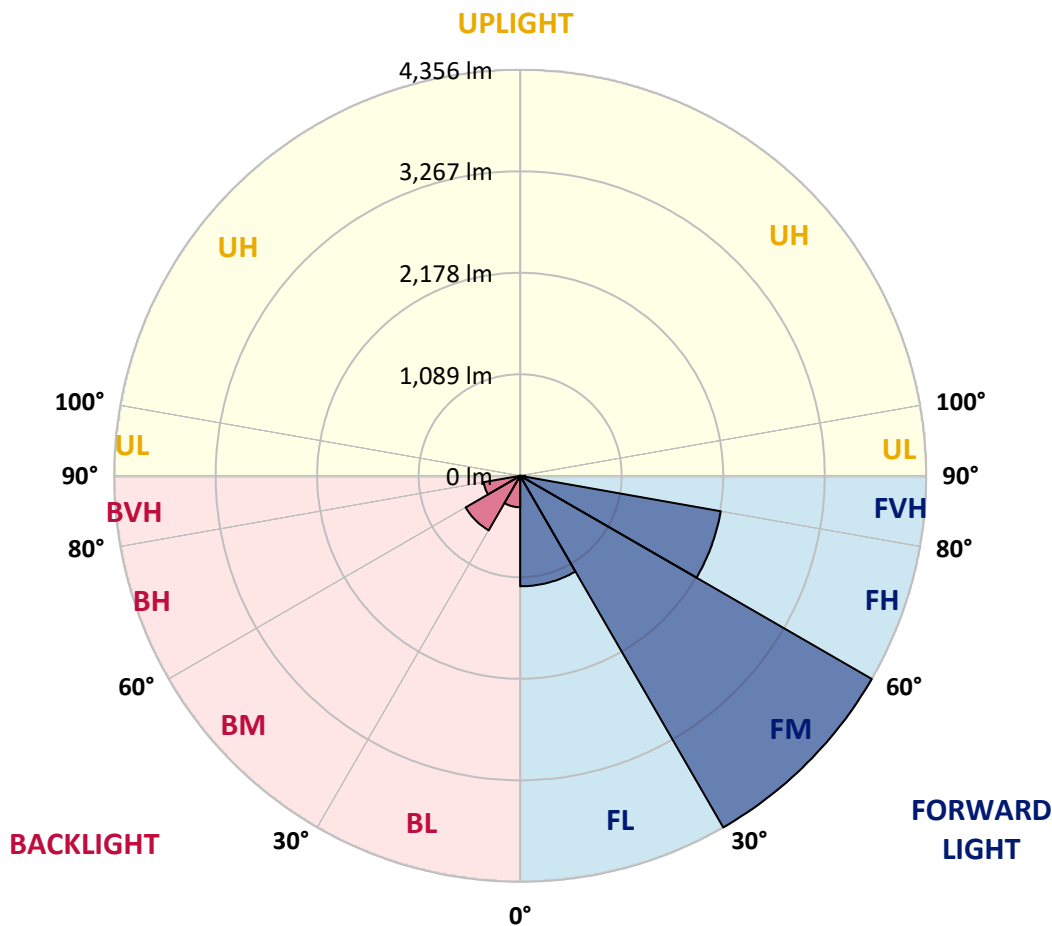
CATALOG NUMBER: ARCH2-110-740-U-T2U-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1185.5	12.9			
FM	(30°-60°)	4356.2	47.3			
FH	(60°-80°)	2185.9	23.7			G2/5000
FVH	(80°-90°)	53.9	0.6			G1/100
BL	(0°-30°)	337.4	3.7	B1/500		
BM	(30°-60°)	675.9	7.3	B1/1000		
BH	(60°-80°)	398.4	4.3	B1/500		G1/500
BVH	(80°-90°)	15.7	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 II Short



REPORT NUMBER: P799412

CATALOG NUMBER: ARCH2-110-740-U-T2U-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	1743.7	1743.7	1743.7	1743.7	1743.7	1743.7	1743.7	1743.7	1743.7	1743.7	1743.7
2.5°	1984.5	2006.6	1994.6	2002.6	1962.5	1936.4	1906.3	1848.1	1816.0	1812.0	1773.8
5°	2275.5	2299.6	2279.5	2273.5	2203.3	2143.1	2074.8	1972.5	1904.3	1892.2	1808.0
7.5°	2566.5	2588.5	2564.4	2546.4	2452.1	2345.7	2245.4	2094.9	1988.6	1968.5	1836.0
10°	2771.1	2791.2	2773.1	2755.1	2656.8	2548.4	2405.9	2209.3	2064.8	2032.7	1854.1
12.5°	2925.6	2937.7	2929.6	2913.6	2821.3	2704.9	2568.5	2337.7	2151.1	2111.0	1882.2
15°	3052.1	3072.1	3062.1	3050.0	2961.8	2845.4	2714.9	2472.1	2251.4	2201.3	1924.3
17.5°	3136.3	3150.4	3152.4	3152.4	3074.1	2959.7	2833.3	2594.5	2351.7	2287.5	1964.5
20°	3174.5	3190.5	3200.5	3216.6	3152.4	3054.1	2925.6	2698.9	2446.1	2373.8	2002.6
22.5°	3192.5	3206.6	3232.6	3268.8	3216.6	3134.3	3015.9	2795.2	2540.4	2464.1	2046.7
25°	3206.6	3224.6	3262.7	3331.0	3294.9	3224.6	3122.3	2905.6	2652.7	2574.5	2111.0
27.5°	3244.7	3266.8	3302.9	3385.2	3341.0	3306.9	3234.7	3024.0	2771.1	2690.9	2189.2
30°	3377.1	3395.2	3393.2	3445.3	3391.2	3381.1	3331.0	3138.3	2885.5	2805.2	2281.5
32.5°	3617.9	3636.0	3591.8	3571.8	3453.4	3455.4	3435.3	3260.7	3022.0	2939.7	2387.9
35°	3876.8	3896.8	3838.6	3804.5	3605.9	3547.7	3557.7	3413.2	3174.5	3092.2	2520.3
37.5°	4107.5	4131.6	4081.4	4031.3	3830.6	3696.2	3694.2	3583.8	3349.0	3264.8	2666.8
40°	4233.9	4262.0	4292.1	4264.0	4053.4	3904.9	3840.7	3758.4	3521.6	3435.3	2825.3
42.5°	4294.1	4372.4	4426.6	4408.5	4236.0	4085.5	4009.2	3941.0	3732.3	3648.0	3013.9
45°	4125.6	4127.6	4242.0	4340.3	4308.2	4207.9	4193.8	4145.7	3973.1	3892.8	3226.6
47.5°	3914.9	3898.8	3979.1	4153.7	4244.0	4270.1	4352.3	4372.4	4248.0	4167.7	3443.3
50°	3409.2	3419.3	3680.1	3930.9	4107.5	4276.1	4464.7	4605.2	4530.9	4454.7	3672.1
52.5°	2773.1	2797.2	3096.2	3648.0	3926.9	4215.9	4530.9	4837.9	4819.9	4747.6	3900.8
55°	2223.3	2261.4	2578.5	3176.5	3696.2	4081.4	4559.0	5050.6	5118.9	5052.6	4125.6
57.5°	1699.6	1739.7	2006.6	2620.6	3401.2	3862.7	4539.0	5237.3	5397.8	5355.6	4332.3
60°	1280.2	1320.3	1490.9	2125.0	3032.0	3617.9	4438.6	5359.7	5648.6	5604.5	4482.8
62.5°	917.0	949.1	1075.5	1653.4	2582.5	3327.0	4191.8	5361.7	5791.1	5755.0	4555.0
65°	660.2	660.2	762.5	1179.9	2161.1	2977.8	3818.6	5114.8	5761.0	5750.9	4504.8
67.5°	475.6	479.6	561.9	824.7	1723.7	2554.4	3335.0	4675.4	5528.2	5578.4	4324.2
70°	337.1	347.1	385.3	575.9	1302.3	2016.6	2817.3	4099.5	5108.8	5197.1	3975.1
72.5°	260.9	266.9	293.0	401.3	951.1	1498.9	2245.4	3457.4	4549.0	4649.3	3499.5
75°	200.7	206.7	226.7	295.0	682.2	1051.5	1595.3	2682.8	3668.1	3846.7	2811.3
77.5°	146.5	154.5	168.6	214.7	397.3	668.2	967.2	1509.0	2024.7	2108.9	1472.9
80°	68.2	78.3	98.3	138.5	214.7	315.0	343.1	581.9	973.2	1017.4	798.6
82.5°	38.1	48.2	56.2	84.3	108.4	112.4	116.4	146.5	367.2	405.3	335.1
85°	18.1	24.1	26.1	36.1	36.1	32.1	38.1	28.1	60.2	72.2	70.2
87.5°	0.0	2.0	4.0	10.0	8.0	6.0	6.0	6.0	6.0	8.0	6.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P799412

CATALOG NUMBER: ARCH2-110-740-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1743.7	1743.7	1743.7	1743.7	1743.7	1743.7	1743.7	1743.7	1743.7	1743.7	1743.7
2.5°	1755.8	1729.7	1669.5	1617.3	1583.2	1553.1	1513.0	1494.9	1462.8	1468.8	1450.8
5°	1765.8	1717.7	1611.3	1513.0	1440.7	1376.5	1306.3	1266.2	1222.0	1218.0	1204.0
7.5°	1771.8	1697.6	1545.1	1406.6	1296.3	1197.9	1103.6	1051.5	997.3	985.2	973.2
10°	1765.8	1667.5	1476.9	1296.3	1149.8	1027.4	921.0	854.8	798.6	784.6	772.5
12.5°	1771.8	1651.4	1412.7	1193.9	1019.4	880.9	760.5	692.3	640.1	626.1	618.0
15°	1785.9	1641.4	1358.5	1101.6	903.0	748.5	630.1	571.9	529.7	515.7	511.7
17.5°	1797.9	1631.4	1300.3	1011.3	786.6	632.1	529.7	481.6	445.5	431.4	427.4
20°	1814.0	1617.3	1242.1	925.0	684.3	539.8	449.5	407.3	379.2	369.2	367.2
22.5°	1828.0	1607.3	1187.9	838.8	589.9	465.5	389.3	355.2	335.1	325.1	325.1
25°	1864.1	1611.3	1141.8	758.5	519.7	407.3	343.1	317.0	301.0	295.0	295.0
27.5°	1906.3	1627.4	1105.6	690.3	459.5	363.2	311.0	289.0	280.9	272.9	274.9
30°	1966.5	1659.5	1081.6	634.1	415.4	329.1	284.9	268.9	260.9	258.9	258.9
32.5°	2042.7	1711.6	1079.6	598.0	383.3	303.0	266.9	252.8	248.8	246.8	246.8
35°	2133.0	1757.8	1067.5	581.9	363.2	284.9	252.8	242.8	240.8	240.8	240.8
37.5°	2241.4	1834.0	1059.5	559.8	353.2	274.9	242.8	234.8	234.8	234.8	234.8
40°	2353.8	1896.2	1047.5	539.8	349.2	268.9	236.8	226.7	226.7	226.7	226.7
42.5°	2488.2	1986.5	1043.4	529.7	343.1	264.9	228.8	216.7	218.7	218.7	220.7
45°	2650.7	2088.9	1041.4	519.7	341.1	260.9	220.7	206.7	208.7	206.7	206.7
47.5°	2815.3	2207.3	1047.5	513.7	339.1	256.8	214.7	196.6	196.6	194.6	194.6
50°	2987.8	2315.6	1051.5	507.7	335.1	248.8	204.7	188.6	184.6	180.6	182.6
52.5°	3150.4	2416.0	1053.5	497.6	323.1	236.8	196.6	178.6	172.6	166.5	168.6
55°	3312.9	2512.3	1057.5	485.6	307.0	224.7	186.6	168.6	160.5	152.5	152.5
57.5°	3459.4	2596.6	1047.5	455.5	289.0	212.7	176.6	156.5	144.5	136.4	136.4
60°	3559.7	2656.8	1017.4	411.4	264.9	198.7	166.5	144.5	130.4	124.4	124.4
62.5°	3607.9	2666.8	963.2	339.1	234.8	184.6	154.5	132.4	120.4	116.4	116.4
65°	3561.7	2622.6	878.9	254.8	202.7	168.6	142.5	122.4	110.4	100.3	100.3
67.5°	3401.2	2498.2	762.5	192.6	172.6	152.5	130.4	112.4	98.3	90.3	90.3
70°	3078.1	2239.4	589.9	154.5	146.5	132.4	118.4	100.3	88.3	78.3	78.3
72.5°	2654.7	1898.3	415.4	124.4	124.4	112.4	100.3	88.3	76.3	68.2	68.2
75°	2036.7	1404.6	278.9	100.3	102.3	94.3	82.3	72.2	64.2	58.2	58.2
77.5°	1111.7	694.3	170.6	74.2	76.3	72.2	64.2	58.2	54.2	48.2	48.2
80°	539.8	305.0	98.3	52.2	54.2	52.2	48.2	42.1	42.1	38.1	38.1
82.5°	226.7	114.4	52.2	36.1	36.1	32.1	30.1	30.1	30.1	28.1	28.1
85°	56.2	22.1	22.1	20.1	20.1	20.1	18.1	18.1	18.1	14.0	16.1
87.5°	8.0	8.0	8.0	8.0	8.0	8.0	6.0	2.0	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)