

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: P836887

Luminaire Tested: **ARCH3-90-722-U-T3**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836887
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-90-722-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 735mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12792 lumens
Efficiency: N/A
Efficacy: 137.4 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

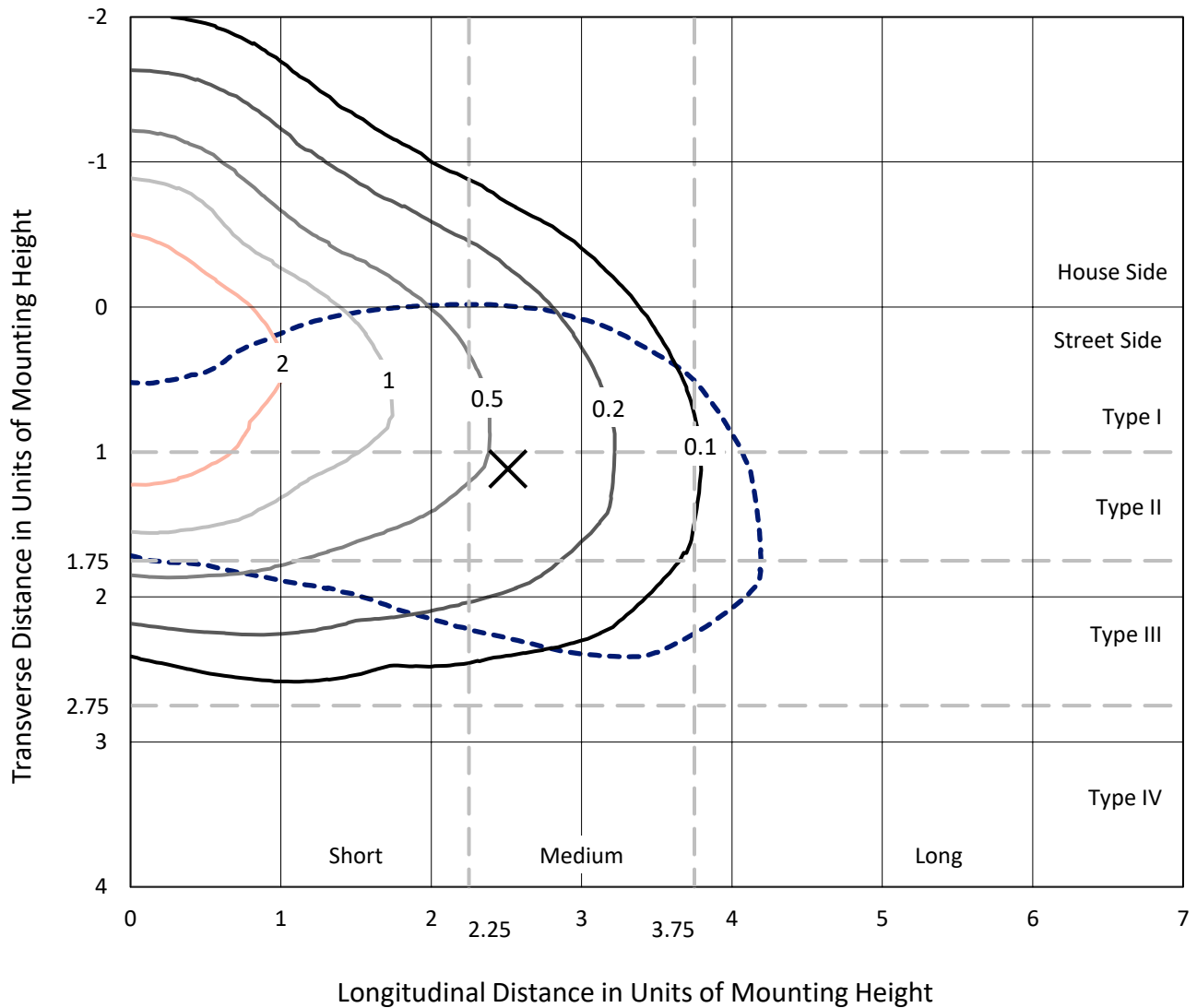
Input Watts (W): 93.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P836887
 CATALOG NUMBER: ARCH3-90-722-U-T3

Iso-Footcandle Lines of Horizontal Illumination

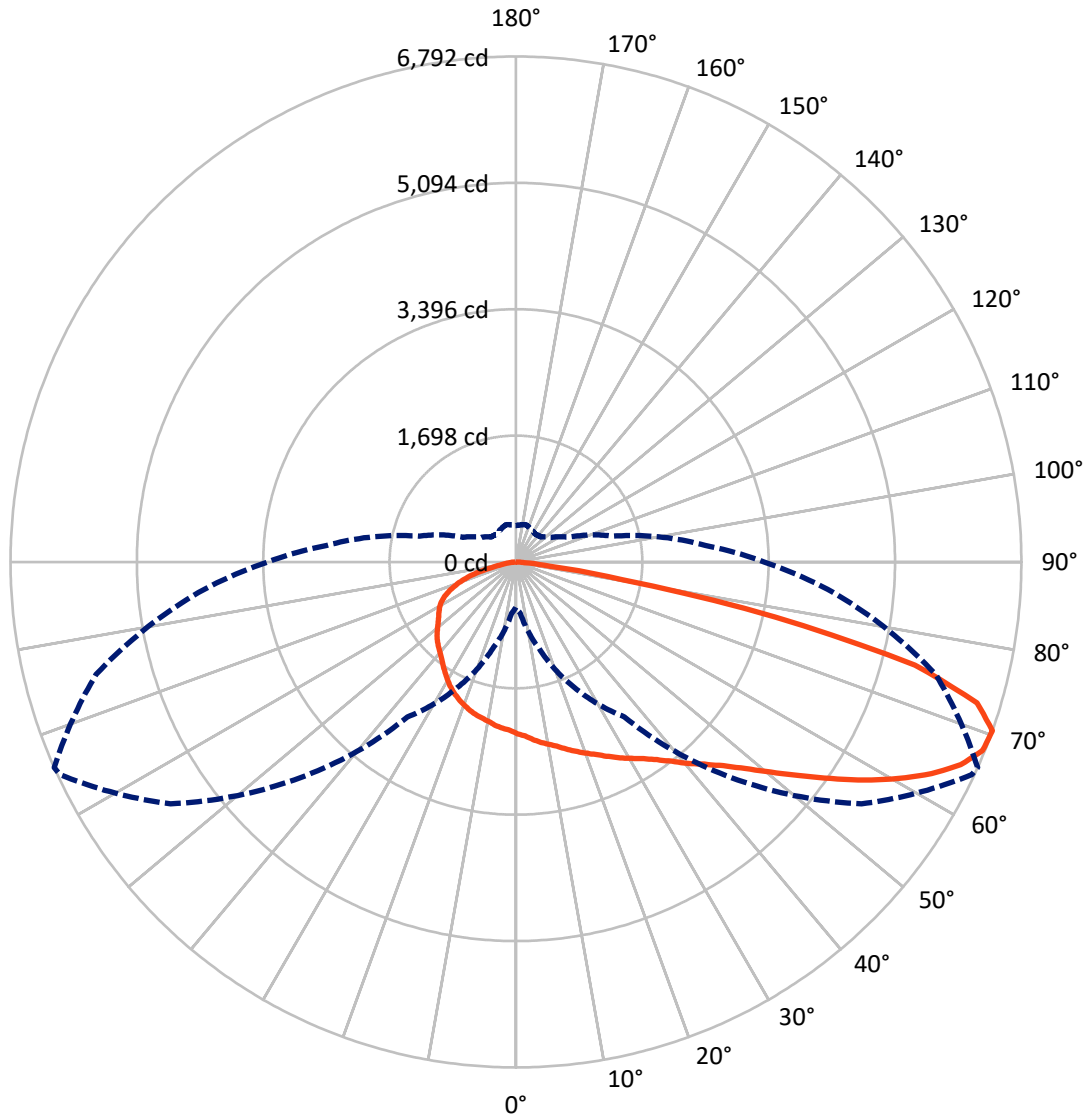
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type III - Medium - N/A

REPORT NUMBER: P836887
CATALOG NUMBER: ARCH3-90-722-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P836887
 CATALOG NUMBER: ARCH3-90-722-U-T3

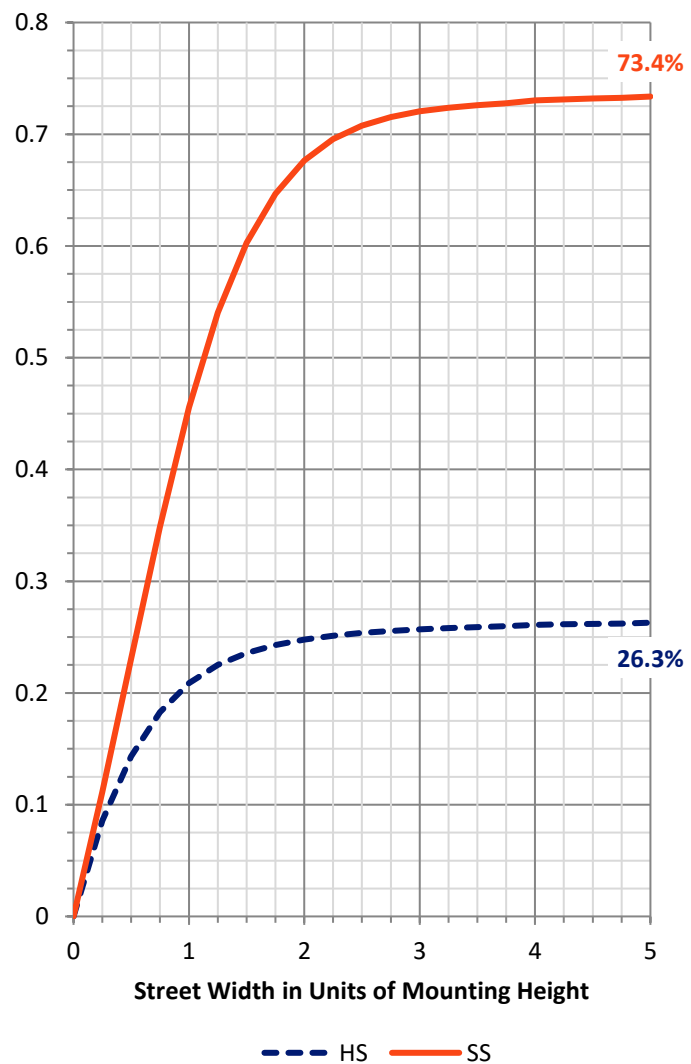
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3389.6	0.0	3389.6
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	9402.4	0.0	9402.4
	% Fixture	73.5	0.0	73.5
Total	Lumens	12792.0	0.0	12792.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.8	1.7
10°-20°	665.4	5.2
20°-30°	1115.5	8.7
30°-40°	1670.3	13.1
40°-50°	2233.1	17.5
50°-60°	2607.3	20.4
60°-70°	2592.5	20.3
70°-80°	1534.8	12.0
80°-90°	151.3	1.2
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°	12792.0	100.0
0°-180°	12792.0	100.0

Coefficient of Utilization



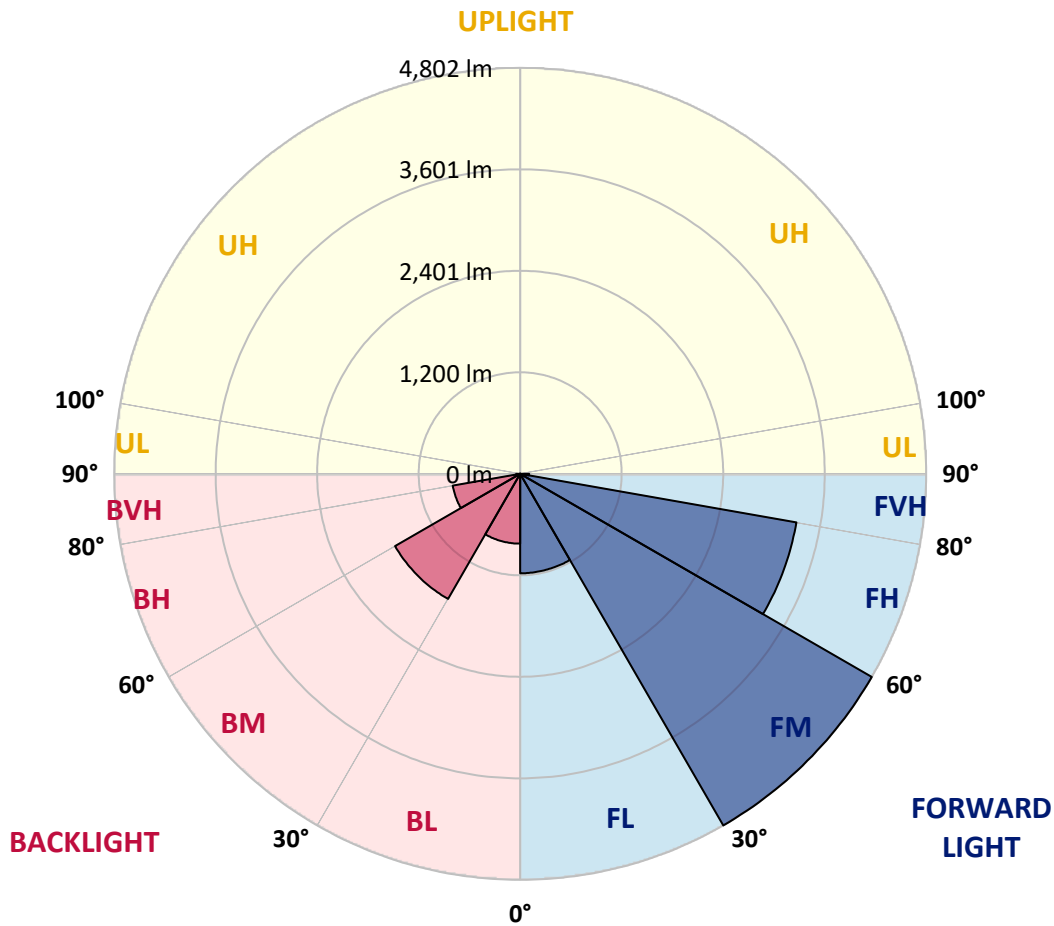
REPORT NUMBER: P836887
 CATALOG NUMBER: ARCH3-90-722-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1176.5	9.2			
FM (30°-60°)	4801.9	37.5			
FH (60°-80°)	3317.6	25.9			G2/5000
FVH (80°-90°)	106.3	0.8			G2/225
BL (0°-30°)	826.2	6.5	B2/1000		
BM (30°-60°)	1708.7	13.4	B2/2500		
BH (60°-80°)	809.7	6.3	B2/1000		G2/1000
BVH (80°-90°)	45.0	0.4			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 III Medium



REPORT NUMBER: P836887
 CATALOG NUMBER: ARCH3-90-722-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2308.7	2308.7	2308.7	2308.7	2308.7	2308.7	2308.7	2308.7	2308.7	2308.7	2308.7
2.5°	2393.5	2389.8	2387.9	2380.3	2363.4	2370.9	2353.9	2342.6	2340.7	2314.3	2299.2
5°	2491.6	2489.7	2486.0	2474.6	2448.2	2452.0	2423.7	2403.0	2397.3	2355.8	2323.8
7.5°	2574.6	2570.8	2569.0	2553.9	2525.6	2523.7	2489.7	2459.6	2450.1	2393.5	2344.5
10°	2638.7	2633.1	2636.9	2621.8	2591.6	2585.9	2542.5	2502.9	2493.5	2421.8	2353.9
12.5°	2693.4	2689.7	2695.3	2682.1	2657.6	2651.9	2608.6	2557.6	2546.3	2463.3	2374.7
15°	2753.8	2740.6	2751.9	2746.3	2729.3	2727.4	2687.8	2631.2	2616.1	2516.1	2406.7
17.5°	2785.9	2778.3	2791.5	2793.4	2785.9	2799.1	2761.3	2693.4	2680.2	2565.2	2435.0
20°	2808.5	2797.2	2812.3	2823.6	2829.2	2855.7	2825.5	2759.5	2744.4	2612.3	2461.4
22.5°	2885.8	2861.3	2863.2	2870.7	2874.5	2912.2	2893.4	2829.2	2814.2	2670.8	2493.5
25°	3080.1	3031.1	2999.0	2976.4	2950.0	2982.0	2970.7	2908.5	2895.3	2740.6	2533.1
27.5°	3381.9	3319.6	3255.5	3189.5	3085.8	3072.6	3053.7	2997.1	2982.0	2810.4	2572.7
30°	3725.2	3662.9	3587.5	3481.9	3287.6	3185.7	3142.3	3080.1	3063.1	2872.6	2610.5
32.5°	4066.6	4011.9	3936.4	3808.2	3530.9	3323.4	3231.0	3166.9	3149.9	2940.5	2655.7
35°	4332.5	4298.6	4249.5	4089.2	3772.3	3485.6	3359.3	3281.9	3263.1	3048.0	2738.7
37.5°	4547.5	4523.0	4481.5	4313.7	3947.7	3647.8	3506.4	3417.7	3397.0	3165.0	2827.4
40°	4864.4	4800.3	4766.3	4523.0	4100.5	3795.0	3672.4	3579.9	3557.3	3289.5	2899.0
42.5°	5134.1	5087.0	5045.5	4709.8	4245.8	3921.3	3828.9	3744.0	3713.9	3412.1	2976.4
45°	5179.4	5198.3	5177.5	4802.2	4475.9	4045.8	3987.4	3932.7	3904.4	3578.1	3093.3
47.5°	5181.3	5181.3	5058.7	4855.0	4760.7	4185.4	4157.1	4176.0	4145.8	3789.3	3232.9
50°	5045.5	5070.0	5005.9	4868.2	4836.1	4325.0	4364.6	4466.4	4436.3	4013.8	3383.8
52.5°	4764.5	4845.6	4843.7	4847.4	4726.7	4443.8	4583.4	4815.4	4764.5	4266.5	3544.1
55°	4268.4	4430.6	4575.8	4700.3	4632.4	4515.5	4851.2	5187.0	5134.1	4549.4	3706.3
57.5°	3844.0	3947.7	4128.8	4481.5	4521.1	4577.7	5102.1	5575.5	5528.3	4862.5	3876.1
60°	3359.3	3502.6	3683.7	4185.4	4385.3	4658.8	5377.5	5954.6	5909.4	5179.4	4040.2
62.5°	2614.2	2799.1	3161.2	3730.8	4187.3	4709.8	5594.4	6288.5	6267.7	5479.3	4187.3
65°	1822.0	1986.1	2493.5	3172.5	3872.3	4687.1	5767.9	6586.5	6567.6	5724.5	4291.0
67.5°	1063.8	1254.3	1827.7	2553.9	3315.9	4530.6	5824.5	6761.9	6761.9	5873.5	4319.3
70°	607.3	696.0	1205.3	1861.6	2542.5	4098.6	5666.0	6760.0	6792.1	5839.6	4202.4
72.5°	424.4	464.0	811.1	1252.4	1724.0	3315.9	5251.1	6433.7	6477.1	5518.9	3802.5
75°	330.1	358.4	571.5	854.4	1086.4	2252.1	4343.8	5424.6	5539.7	4704.1	3074.4
77.5°	250.9	271.6	333.9	533.8	696.0	1293.9	2867.0	3557.3	3564.8	2880.2	1648.5
80°	183.0	203.7	222.6	326.3	369.7	605.5	1082.7	1486.3	1444.8	1393.9	892.2
82.5°	109.4	130.1	135.8	177.3	181.1	258.4	379.1	479.1	460.2	613.0	418.7
85°	47.2	66.0	69.8	81.1	77.3	105.6	150.9	126.4	113.2	130.1	90.5
87.5°	11.3	18.9	18.9	20.7	17.0	26.4	28.3	20.7	18.9	22.6	22.6
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: P836887
 CATALOG NUMBER: ARCH3-90-722-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2308.7	2308.7	2308.7	2308.7	2308.7	2308.7	2308.7	2308.7	2308.7	2308.7	2308.7
2.5°	2295.5	2289.8	2291.7	2259.6	2250.2	2240.8	2235.1	2231.3	2227.6	2233.2	2238.9
5°	2312.4	2299.2	2284.1	2237.0	2218.1	2197.4	2182.3	2169.1	2163.4	2163.4	2169.1
7.5°	2325.6	2303.0	2270.9	2208.7	2174.7	2146.5	2121.9	2105.0	2095.5	2095.5	2101.2
10°	2327.5	2295.5	2244.5	2169.1	2123.8	2082.3	2054.0	2035.2	2022.0	2022.0	2025.7
12.5°	2338.8	2295.5	2229.4	2138.9	2082.3	2031.4	1997.4	1969.2	1963.5	1963.5	1967.3
15°	2357.7	2304.9	2220.0	2112.5	2044.6	1986.1	1948.4	1918.2	1906.9	1914.5	1916.3
17.5°	2374.7	2310.6	2203.0	2078.6	1997.4	1933.3	1891.8	1865.4	1850.3	1867.3	1867.3
20°	2386.0	2310.6	2178.5	2035.2	1946.5	1874.8	1835.2	1803.2	1791.9	1812.6	1814.5
22.5°	2403.0	2308.7	2152.1	1991.8	1891.8	1816.4	1776.8	1752.2	1746.6	1769.2	1776.8
25°	2421.8	2312.4	2123.8	1942.7	1831.5	1757.9	1727.7	1716.4	1720.2	1748.5	1757.9
27.5°	2442.6	2320.0	2095.5	1888.1	1765.4	1699.4	1682.5	1688.1	1703.2	1739.0	1750.4
30°	2461.4	2321.9	2055.9	1823.9	1690.0	1627.8	1635.3	1659.8	1682.5	1718.3	1731.5
32.5°	2486.0	2323.8	2014.4	1754.1	1608.9	1563.6	1597.6	1637.2	1659.8	1693.8	1708.9
35°	2546.3	2355.8	1982.4	1686.2	1533.5	1508.9	1565.5	1616.4	1629.6	1659.8	1673.0
37.5°	2616.1	2408.6	1965.4	1616.4	1459.9	1454.2	1525.9	1576.8	1580.6	1599.5	1612.7
40°	2659.5	2431.3	1946.5	1558.0	1393.9	1397.6	1471.2	1510.8	1503.3	1516.5	1525.9
42.5°	2702.9	2438.8	1906.9	1508.9	1331.6	1335.4	1392.0	1420.3	1424.1	1452.3	1465.5
45°	2776.4	2459.6	1863.5	1463.7	1275.0	1261.8	1295.8	1333.5	1382.6	1437.3	1452.3
47.5°	2874.5	2502.9	1818.3	1409.0	1220.3	1177.0	1190.2	1256.2	1307.1	1358.0	1367.5
50°	2974.5	2546.3	1776.8	1342.9	1165.6	1086.4	1092.1	1152.4	1193.9	1233.6	1239.2
52.5°	3072.6	2584.0	1740.9	1280.7	1103.4	978.9	1001.6	1063.8	1092.1	1111.0	1116.6
55°	3170.6	2616.1	1708.9	1227.9	1031.7	894.0	914.8	973.3	1001.6	1011.0	1014.8
57.5°	3272.5	2653.8	1684.3	1182.6	950.6	818.6	831.8	873.3	899.7	911.0	907.2
60°	3357.4	2685.9	1671.1	1135.5	869.5	748.8	745.0	782.8	820.5	831.8	828.0
62.5°	3423.4	2706.6	1650.4	1075.1	797.8	679.0	660.2	709.2	748.8	756.4	762.0
65°	3459.2	2708.5	1599.5	997.8	724.3	603.6	590.4	639.4	663.9	671.5	671.5
67.5°	3453.6	2678.4	1499.5	894.0	656.4	535.7	524.4	554.5	590.4	596.0	590.4
70°	3336.6	2553.9	1339.2	784.6	575.3	475.3	454.6	484.7	518.7	497.9	488.5
72.5°	3004.7	2231.3	1103.4	663.9	484.7	399.9	390.4	420.6	422.5	426.3	416.8
75°	2370.9	1661.7	826.1	516.8	392.3	335.7	333.9	328.2	335.7	350.8	339.5
77.5°	1244.9	829.9	447.0	316.9	284.8	269.7	256.5	254.6	277.3	286.7	275.4
80°	675.2	465.9	256.5	190.5	173.5	175.4	192.4	188.6	213.1	218.8	209.4
82.5°	294.2	220.7	126.4	115.1	115.1	113.2	118.8	132.0	158.4	158.4	126.4
85°	64.1	54.7	49.0	56.6	64.1	64.1	64.1	64.1	45.3	24.5	17.0
87.5°	20.7	20.7	20.7	22.6	24.5	24.5	20.7	15.1	9.4	1.9	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)