

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: P399352

Luminaire Tested: **ARCH-L-PA3-130-730-U-T4W**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399352
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-130-730-U-T4W
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 575mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19159 lumens
Efficiency: N/A
Efficacy: 144.1 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

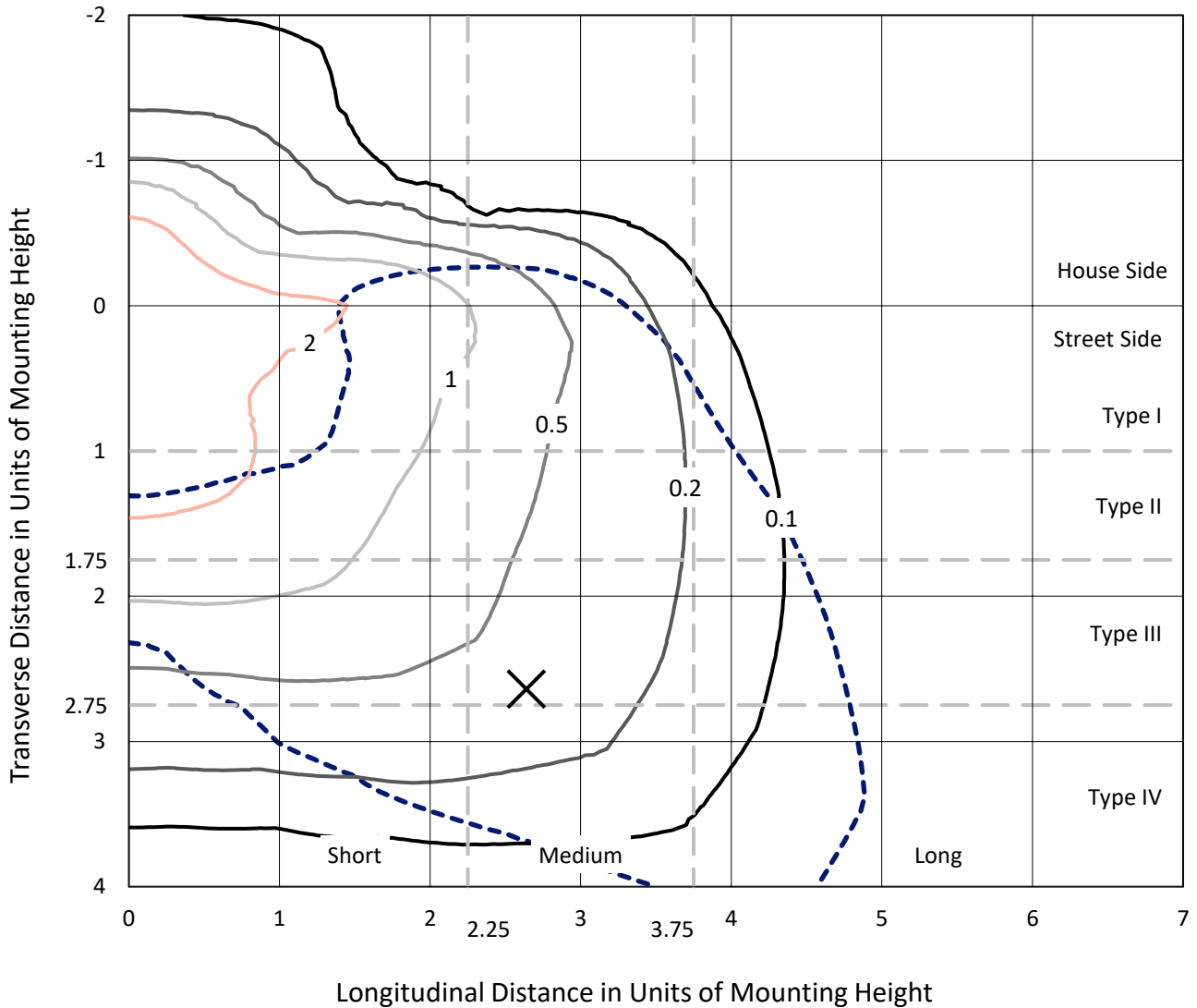
Input Watts (W): 133
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P399352
 CATALOG NUMBER: ARCH-L-PA3-130-730-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

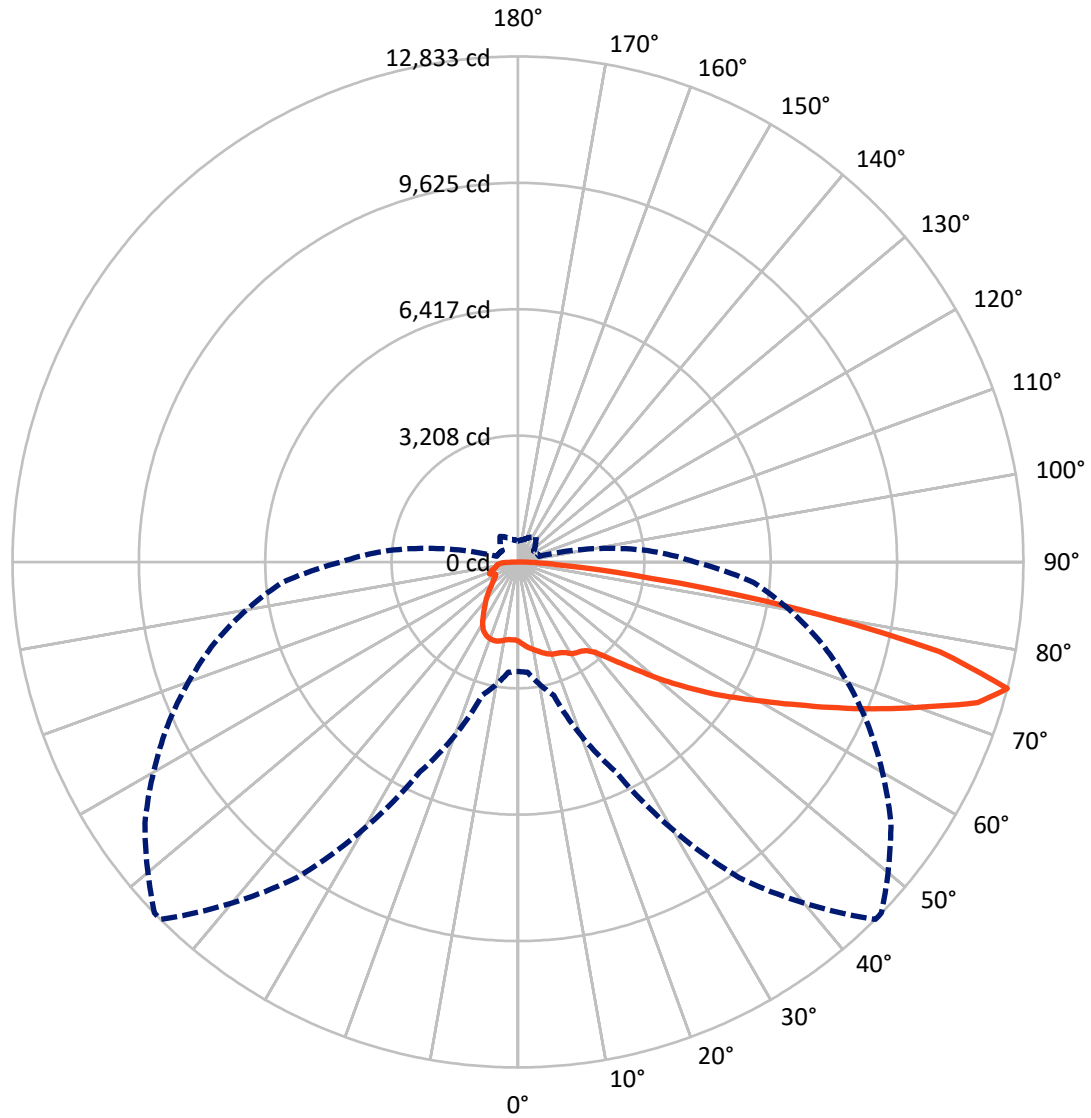
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type IV - Medium - N/A

REPORT NUMBER: P399352
CATALOG NUMBER: ARCH-L-PA3-130-730-U-T4W

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

REPORT NUMBER: P399352
 CATALOG NUMBER: ARCH-L-PA3-130-730-U-T4W

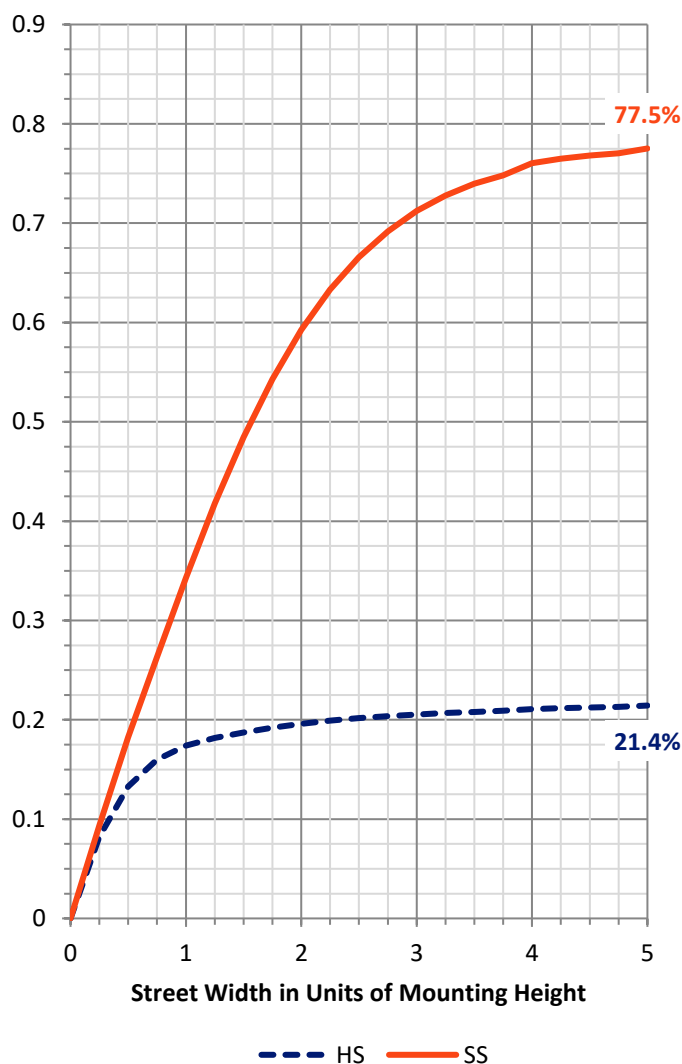
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4234.0	0.0	4234.0
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	14925.0	0.0	14925.0
	% Fixture	77.9	0.0	77.9
Total	Lumens	19159.0	0.0	19159.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.1	1.0
10°-20°	633.3	3.3
20°-30°	1079.6	5.6
30°-40°	1512.7	7.9
40°-50°	2222.4	11.6
50°-60°	3536.9	18.5
60°-70°	5031.3	26.3
70°-80°	4212.7	22.0
80°-90°	731.1	3.8
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°	19159.0	100.0
0°-180°	19159.0	100.0

Coefficient of Utilization



REPORT NUMBER: P399352

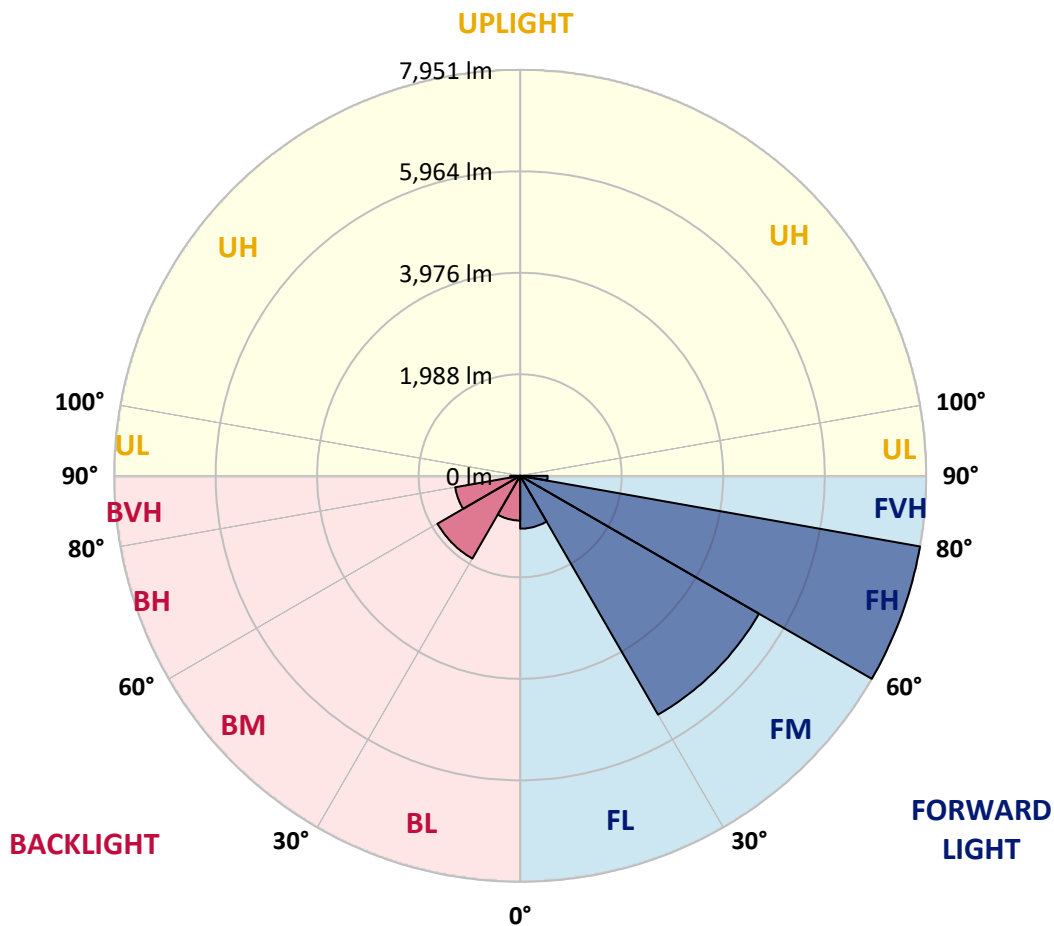
CATALOG NUMBER: ARCH-L-PA3-130-730-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1035.7	5.4			
FM (30°-60°)	5400.3	28.2			
FH (60°-80°)	7951.5	41.5			G4/12000
FVH (80°-90°)	537.5	2.8			G4/750
BL (0°-30°)	876.3	4.6	B2/1000		
BM (30°-60°)	1871.6	9.8	B2/2500		
BH (60°-80°)	1292.5	6.7	B3/2500		G3/2500
BVH (80°-90°)	193.6	1.0			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Medium





REPORT NUMBER: P399352

CATALOG NUMBER: ARCH-L-PA3-130-730-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2012.1	2012.1	2012.1	2012.1	2012.1	2012.1	2012.1	2012.1	2012.1	2012.1	2012.1
2.5°	2127.3	2117.1	2112.0	2112.0	2091.5	2078.7	2076.1	2058.2	2042.8	2027.5	2014.7
5°	2250.2	2242.5	2227.1	2214.3	2186.2	2150.4	2145.2	2106.8	2068.4	2032.6	2001.9
7.5°	2362.8	2347.5	2329.5	2303.9	2257.9	2209.2	2201.5	2147.8	2094.0	2040.3	1999.3
10°	2457.5	2442.2	2416.6	2380.7	2321.9	2263.0	2255.3	2199.0	2142.7	2078.7	2019.8
12.5°	2547.1	2534.3	2495.9	2447.3	2378.2	2324.4	2316.7	2268.1	2209.2	2137.6	2060.8
15°	2623.9	2611.1	2570.2	2513.9	2434.5	2393.5	2383.3	2337.2	2278.3	2201.5	2122.2
17.5°	2662.3	2662.3	2618.8	2557.4	2483.1	2452.4	2444.7	2388.4	2334.7	2260.4	2181.1
20°	2675.1	2680.3	2649.5	2575.3	2511.3	2498.5	2490.8	2444.7	2383.3	2311.6	2237.4
22.5°	2682.8	2693.1	2667.5	2583.0	2529.2	2521.5	2516.4	2485.7	2437.1	2367.9	2293.7
25°	2708.4	2708.4	2690.5	2595.8	2552.3	2549.7	2549.7	2531.8	2498.5	2439.6	2365.4
27.5°	2746.8	2744.3	2721.2	2623.9	2603.5	2611.1	2608.6	2606.0	2583.0	2524.1	2444.7
30°	2810.8	2810.8	2785.2	2680.3	2667.5	2700.7	2703.3	2708.4	2672.6	2580.4	2516.4
32.5°	2908.1	2897.9	2872.3	2736.6	2716.1	2746.8	2751.9	2749.4	2718.7	2631.6	2600.9
35°	3207.6	3184.6	3092.4	2862.0	2759.6	2777.5	2780.1	2792.9	2798.0	2728.9	2713.5
37.5°	3732.4	3701.7	3560.9	3159.0	2897.9	2854.3	2851.8	2885.1	2913.2	2851.8	2851.8
40°	4303.3	4277.7	4195.7	3671.0	3153.8	3010.5	3000.3	3031.0	3066.8	3023.3	3036.1
42.5°	4794.8	4815.3	4822.9	4213.7	3537.8	3302.3	3274.2	3230.6	3287.0	3248.6	3299.8
45°	5163.4	5153.2	5294.0	4769.2	4034.5	3668.4	3630.0	3512.2	3583.9	3581.4	3694.0
47.5°	5555.1	5537.2	5596.0	5291.4	4600.2	4116.4	4057.5	3883.4	3990.9	4065.2	4252.1
50°	5926.3	5931.4	5951.9	5703.6	5214.6	4661.7	4587.4	4354.5	4508.1	4664.2	4927.9
52.5°	6410.1	6374.3	6348.7	6184.8	5903.2	5230.0	5181.3	4915.1	5130.1	5314.4	5665.2
55°	6832.5	6809.4	6794.1	6786.4	6479.2	5857.1	5805.9	5529.5	5839.2	5969.8	6486.9
57.5°	7283.0	7270.2	7352.2	7482.7	7359.8	6494.6	6440.8	6174.6	6520.2	6612.3	7377.8
60°	7613.3	7620.9	7846.2	8179.0	8094.5	7185.8	7121.8	6886.2	7183.2	7265.1	8268.6
62.5°	7615.8	7692.6	8214.9	8811.3	8908.6	7981.9	7907.7	7651.7	7864.1	7864.1	9067.3
65°	6888.8	6975.8	8148.3	8967.5	9732.9	8929.1	8857.4	8455.5	8534.8	8427.3	9817.4
67.5°	6164.3	6266.7	7370.1	8980.3	10311.4	9942.8	9858.3	9259.3	9123.6	8852.3	10342.2
70°	5683.1	5754.7	6676.3	8813.9	10659.6	11002.6	10938.6	10022.2	9587.0	9208.1	10232.1
72.5°	4784.5	4758.9	5639.6	8022.9	10854.2	12205.8	12152.0	10851.6	9988.9	9039.2	8726.8
75°	2777.5	2808.3	3499.4	5877.6	9784.1	12833.0	12827.9	11560.7	9812.3	7984.5	6013.3
77.5°	801.3	824.3	1149.4	2583.0	6187.4	10946.3	11297.0	10572.6	8294.2	5690.8	3118.0
80°	350.7	368.6	499.2	860.1	2664.9	7149.9	7457.1	7149.9	5002.1	2611.1	1223.7
82.5°	207.4	220.2	325.1	532.5	1277.4	3402.2	3816.9	3333.0	2158.0	1108.5	506.9
85°	117.8	122.9	186.9	337.9	803.8	1190.4	1336.3	1251.8	1052.1	629.7	266.2
87.5°	53.8	56.3	92.2	158.7	450.5	401.9	417.3	552.9	609.3	384.0	133.1
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: P399352

CATALOG NUMBER: ARCH-L-PA3-130-730-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2012.1	2012.1	2012.1	2012.1	2012.1	2012.1	2012.1	2012.1	2012.1	2012.1	2012.1
2.5°	2009.6	2001.9	1986.5	1981.4	1973.7	1976.3	1978.8	1978.8	1981.4	1973.7	1973.7
5°	1989.1	1976.3	1960.9	1960.9	1960.9	1981.4	1999.3	2009.6	2014.7	2014.7	2009.6
7.5°	1981.4	1966.0	1948.1	1953.2	1958.4	1984.0	2017.2	2050.5	2060.8	2060.8	2055.6
10°	1996.8	1981.4	1968.6	1976.3	1989.1	2009.6	2035.2	2065.9	2091.5	2094.0	2091.5
12.5°	2032.6	2014.7	2001.9	2017.2	2032.6	2045.4	2058.2	2071.0	2104.3	2109.4	2109.4
15°	2091.5	2073.6	2058.2	2071.0	2076.1	2076.1	2076.1	2076.1	2109.4	2114.5	2114.5
17.5°	2150.4	2135.0	2119.6	2122.2	2106.8	2086.4	2078.7	2076.1	2094.0	2109.4	2112.0
20°	2206.7	2193.9	2178.5	2152.9	2114.5	2076.1	2063.3	2063.3	2073.6	2096.6	2096.6
22.5°	2268.1	2252.7	2227.1	2168.3	2104.3	2050.5	2037.7	2045.4	2058.2	2088.9	2086.4
25°	2337.2	2316.7	2273.2	2163.2	2071.0	2007.0	2009.6	2032.6	2055.6	2088.9	2088.9
27.5°	2414.0	2385.9	2298.8	2122.2	1996.8	1935.3	1958.4	2012.1	2045.4	2081.2	2086.4
30°	2498.5	2472.9	2319.3	2050.5	1876.4	1820.1	1876.4	1963.5	2014.7	2048.0	2055.6
32.5°	2600.9	2580.4	2337.2	1958.4	1720.3	1671.6	1753.6	1861.1	1943.0	1981.4	1989.1
35°	2728.9	2708.4	2360.3	1853.4	1574.4	1523.2	1597.4	1707.5	1815.0	1863.6	1879.0
37.5°	2895.3	2864.6	2380.7	1740.8	1451.5	1392.6	1428.4	1528.3	1625.6	1692.1	1710.0
40°	3107.8	3059.1	2398.7	1612.8	1344.0	1277.4	1290.2	1338.8	1395.2	1454.0	1477.1
42.5°	3407.3	3310.0	2401.2	1477.1	1233.9	1172.5	1167.3	1182.7	1182.7	1182.7	1190.4
45°	3824.6	3640.2	2406.3	1349.1	1121.3	1057.3	1041.9	1036.8	998.4	924.1	919.0
47.5°	4351.9	4072.9	2429.4	1241.6	1003.5	947.2	926.7	906.2	834.5	757.7	742.4
50°	5027.7	4574.6	2475.5	1139.2	903.7	865.3	839.7	791.0	711.7	652.8	637.4
52.5°	5805.9	5171.1	2519.0	1031.7	829.4	803.8	773.1	714.2	629.7	593.9	588.8
55°	6699.4	5836.7	2606.0	936.9	765.4	747.5	719.3	663.0	599.0	573.4	570.9
57.5°	7613.3	6581.6	2728.9	852.5	704.0	693.7	693.7	645.1	604.1	593.9	593.9
60°	8493.9	7221.6	2634.2	773.1	647.7	652.8	701.4	688.6	657.9	670.7	678.4
62.5°	9177.4	7597.9	2137.6	709.1	606.7	652.8	778.2	778.2	742.4	737.3	737.3
65°	9469.2	7592.8	1502.7	660.5	591.3	716.8	867.8	826.9	732.1	696.3	688.6
67.5°	9395.0	7260.0	1036.8	627.2	586.2	783.3	908.8	793.6	686.1	655.3	632.3
70°	8742.2	6556.0	798.7	596.5	578.5	755.2	896.0	755.2	650.2	622.1	601.6
72.5°	7052.6	5258.1	663.0	565.7	547.8	698.9	852.5	719.3	622.1	591.3	570.9
75°	4497.8	3307.4	560.6	524.8	488.9	627.2	793.6	683.5	591.3	550.4	535.0
77.5°	2163.2	1425.9	488.9	476.1	440.3	581.1	734.7	637.4	550.4	517.1	506.9
80°	875.5	652.8	425.0	427.5	404.5	552.9	693.7	593.9	509.4	473.6	455.7
82.5°	455.7	378.9	358.4	368.6	368.6	527.3	663.0	558.1	473.6	458.2	399.4
85°	245.8	235.5	276.5	297.0	320.0	476.1	616.9	519.7	432.6	371.2	358.4
87.5°	120.3	153.6	156.2	179.2	222.7	381.4	519.7	435.2	361.0	299.5	294.4
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)