

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: P835951

Luminaire Tested: **ARCH3-120-722-U-T3**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835951
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: ARCH3-120-722-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 965mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16054 lumens
Efficiency: N/A
Efficacy: 130.8 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

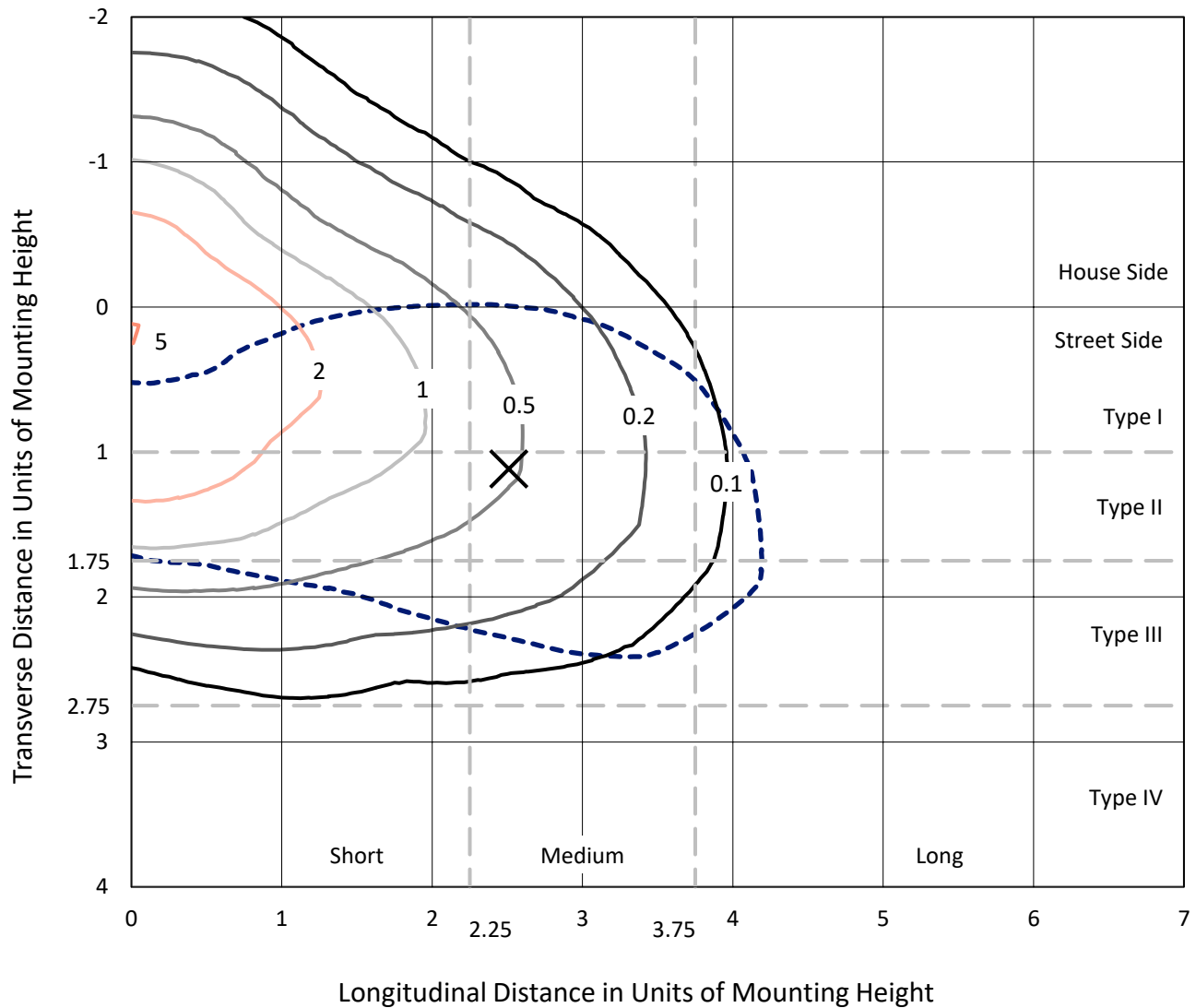
Input Watts (W): 122.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P835951
 CATALOG NUMBER: ARCH3-120-722-U-T3

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

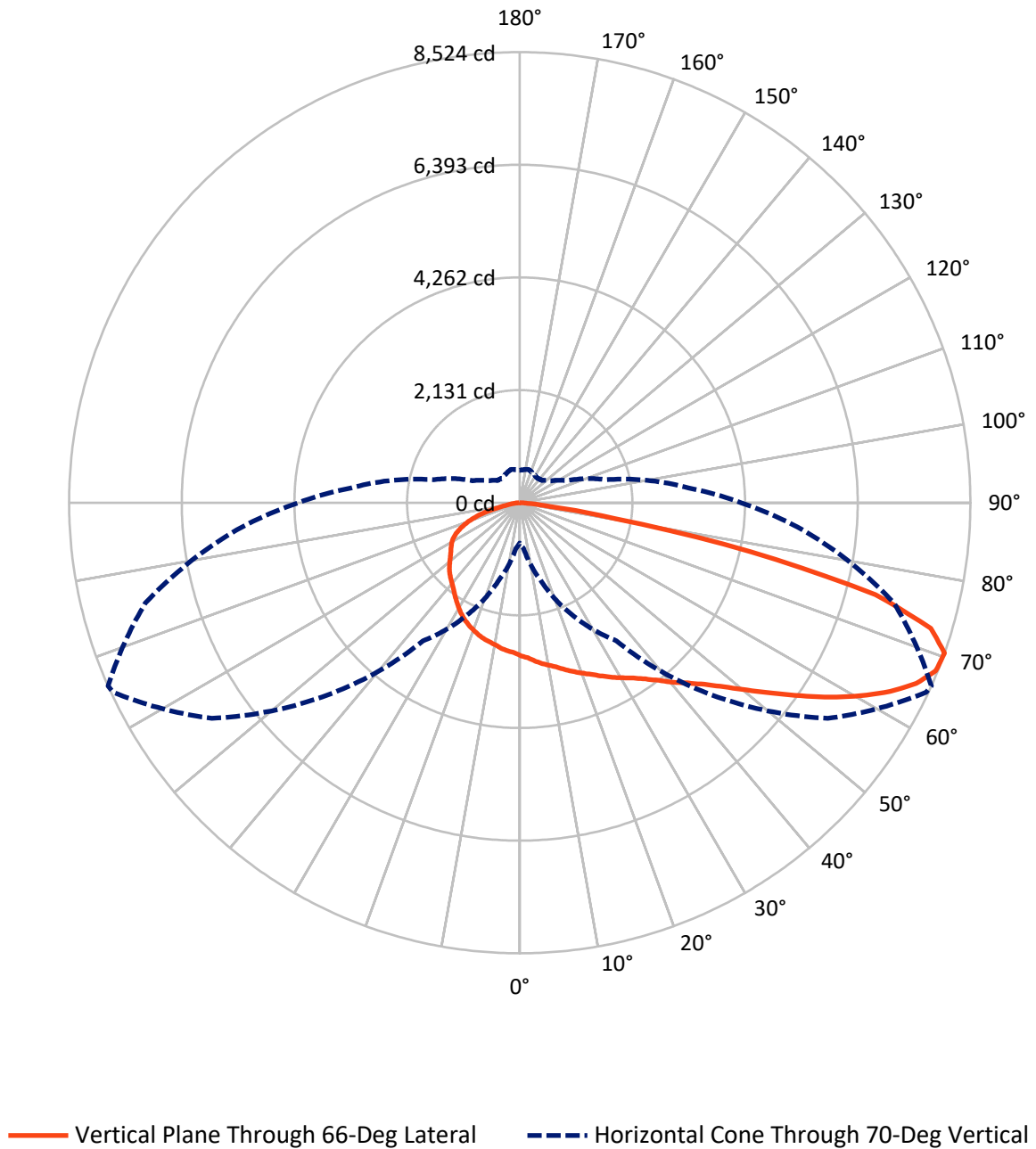


Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type III - Medium - N/A

REPORT NUMBER: P835951

CATALOG NUMBER: ARCH3-120-722-U-T3

Luminous Intensity Polar Plot



REPORT NUMBER: P835951

CATALOG NUMBER: ARCH3-120-722-U-T3

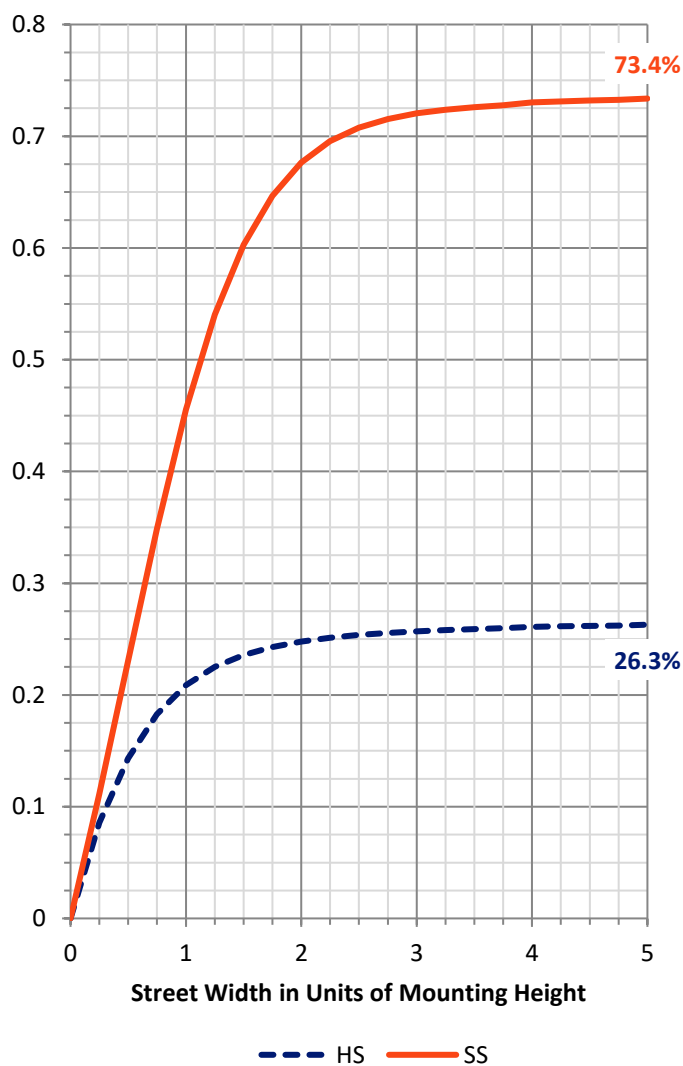
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4253.9	0.0	4253.9
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	11800.1	0.0	11800.1
	% Fixture	73.5	0.0	73.5
Total	Lumens	16054.0	0.0	16054.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.4	1.7
10°-20°	835.1	5.2
20°-30°	1399.9	8.7
30°-40°	2096.2	13.1
40°-50°	2802.6	17.5
50°-60°	3272.1	20.4
60°-70°	3253.6	20.3
70°-80°	1926.2	12.0
80°-90°	189.8	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°	16054.0	100.0
0°-180°	16054.0	100.0

Coefficient of Utilization



REPORT NUMBER: P835951

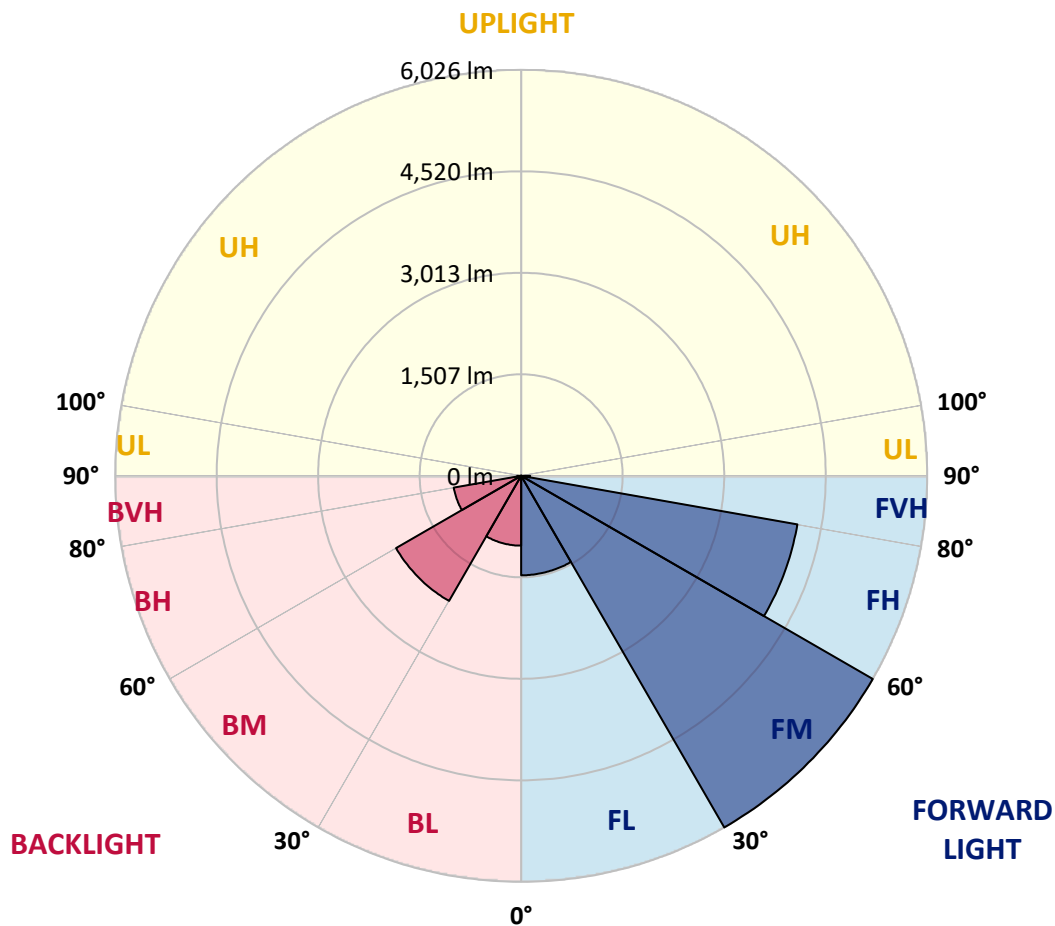
CATALOG NUMBER: ARCH3-120-722-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1476.5	9.2			
FM	(30°-60°)	6026.5	37.5			
FH	(60°-80°)	4163.6	25.9			G2/5000
FVH	(80°-90°)	133.4	0.8			G2/225
BL	(0°-30°)	1036.9	6.5	B3/2500		
BM	(30°-60°)	2144.4	13.4	B2/2500		
BH	(60°-80°)	1016.2	6.3	B3/2500		G3/2500
BVH	(80°-90°)	56.4	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Medium



REPORT NUMBER: P835951

CATALOG NUMBER: ARCH3-120-722-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2897.4	2897.4	2897.4	2897.4	2897.4	2897.4	2897.4	2897.4	2897.4	2897.4	2897.4
2.5°	3003.9	2999.2	2996.8	2987.3	2966.0	2975.5	2954.2	2940.0	2937.6	2904.5	2885.5
5°	3127.0	3124.6	3119.9	3105.7	3072.5	3077.3	3041.8	3015.7	3008.6	2956.6	2916.3
7.5°	3231.1	3226.4	3224.0	3205.1	3169.6	3167.2	3124.6	3086.8	3074.9	3003.9	2942.4
10°	3311.6	3304.5	3309.3	3290.3	3252.5	3245.4	3190.9	3141.2	3129.4	3039.4	2954.2
12.5°	3380.3	3375.5	3382.6	3366.1	3335.3	3328.2	3273.8	3209.8	3195.6	3091.5	2980.2
15°	3456.0	3439.5	3453.7	3446.6	3425.3	3422.9	3373.2	3302.2	3283.2	3157.8	3020.5
17.5°	3496.3	3486.8	3503.4	3505.7	3496.3	3512.8	3465.5	3380.3	3363.7	3219.3	3056.0
20°	3524.7	3510.5	3529.4	3543.6	3550.7	3583.9	3546.0	3463.1	3444.2	3278.5	3089.1
22.5°	3621.7	3591.0	3593.3	3602.8	3607.5	3654.9	3631.2	3550.7	3531.8	3351.9	3129.4
25°	3865.5	3804.0	3763.8	3735.3	3702.2	3742.5	3728.2	3650.1	3633.6	3439.5	3179.1
27.5°	4244.3	4166.2	4085.7	4002.8	3872.6	3856.1	3832.4	3761.4	3742.5	3527.0	3228.8
30°	4675.1	4597.0	4502.3	4369.7	4125.9	3998.1	3943.7	3865.5	3844.2	3605.2	3276.1
32.5°	5103.6	5034.9	4940.2	4779.3	4431.3	4170.9	4054.9	3974.4	3953.1	3690.4	3332.9
35°	5437.3	5394.7	5333.2	5132.0	4734.3	4374.5	4215.9	4118.8	4095.2	3825.3	3437.1
37.5°	5707.2	5676.4	5624.3	5413.7	4954.4	4578.1	4400.5	4289.3	4263.2	3972.1	3548.3
40°	6104.9	6024.4	5981.8	5676.4	5146.2	4762.7	4608.8	4492.8	4464.4	4128.3	3638.3
42.5°	6443.4	6384.2	6332.1	5910.8	5328.4	4921.3	4805.3	4698.8	4660.9	4282.2	3735.3
45°	6500.2	6523.8	6497.8	6026.7	5617.2	5077.5	5004.1	4935.5	4900.0	4490.5	3882.1
47.5°	6502.5	6502.5	6348.7	6093.0	5974.7	5252.7	5217.2	5240.9	5203.0	4755.6	4057.3
50°	6332.1	6362.9	6282.4	6109.6	6069.4	5427.9	5477.6	5605.4	5567.5	5037.3	4246.7
52.5°	5979.4	6081.2	6078.8	6083.6	5932.1	5577.0	5752.2	6043.3	5979.4	5354.5	4447.9
55°	5356.8	5560.4	5742.7	5898.9	5813.7	5666.9	6088.3	6509.6	6443.4	5709.5	4651.4
57.5°	4824.2	4954.4	5181.7	5624.3	5674.0	5745.1	6403.1	6997.3	6938.1	6102.5	4864.5
60°	4215.9	4395.8	4623.0	5252.7	5503.6	5846.8	6748.7	7473.1	7416.3	6500.2	5070.4
62.5°	3280.9	3512.8	3967.3	4682.2	5255.1	5910.8	7020.9	7892.1	7866.0	6876.5	5255.1
65°	2286.7	2492.6	3129.4	3981.5	4859.7	5882.3	7238.7	8266.1	8242.4	7184.3	5385.2
67.5°	1335.1	1574.1	2293.8	3205.1	4161.4	5685.9	7309.7	8486.2	8486.2	7371.3	5420.8
70°	762.2	873.5	1512.6	2336.4	3190.9	5143.8	7110.9	8483.8	8524.1	7328.7	5274.0
72.5°	532.6	582.3	1017.9	1571.8	2163.6	4161.4	6590.1	8074.3	8128.8	6926.3	4772.2
75°	414.2	449.8	717.2	1072.3	1363.5	2826.4	5451.5	6807.9	6952.3	5903.7	3858.4
77.5°	314.8	340.9	419.0	669.9	873.5	1623.9	3598.1	4464.4	4473.9	3614.6	2068.9
80°	229.6	255.7	279.3	409.5	464.0	759.9	1358.7	1865.3	1813.2	1749.3	1119.7
82.5°	137.3	163.3	170.4	222.5	227.2	324.3	475.8	601.3	577.6	769.3	525.5
85°	59.2	82.8	87.6	101.8	97.1	132.6	189.4	158.6	142.0	163.3	113.6
87.5°	14.2	23.7	23.7	26.0	21.3	33.1	35.5	26.0	23.7	28.4	28.4
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: P835951

CATALOG NUMBER: ARCH3-120-722-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2897.4	2897.4	2897.4	2897.4	2897.4	2897.4	2897.4	2897.4	2897.4	2897.4	2897.4
2.5°	2880.8	2873.7	2876.1	2835.8	2824.0	2812.2	2805.1	2800.3	2795.6	2802.7	2809.8
5°	2902.1	2885.5	2866.6	2807.4	2783.8	2757.7	2738.8	2722.2	2715.1	2715.1	2722.2
7.5°	2918.7	2890.3	2850.0	2771.9	2729.3	2693.8	2663.0	2641.7	2629.9	2629.9	2637.0
10°	2921.1	2880.8	2816.9	2722.2	2665.4	2613.3	2577.8	2554.1	2537.6	2537.6	2542.3
12.5°	2935.3	2880.8	2798.0	2684.3	2613.3	2549.4	2506.8	2471.3	2464.2	2464.2	2468.9
15°	2958.9	2892.6	2786.1	2651.2	2566.0	2492.6	2445.3	2407.4	2393.2	2402.6	2405.0
17.5°	2980.2	2899.7	2764.8	2608.6	2506.8	2426.3	2374.2	2341.1	2322.2	2343.5	2343.5
20°	2994.4	2899.7	2734.0	2554.1	2442.9	2352.9	2303.2	2263.0	2248.8	2274.8	2277.2
22.5°	3015.7	2897.4	2700.9	2499.7	2374.2	2279.6	2229.8	2199.1	2192.0	2220.4	2229.8
25°	3039.4	2902.1	2665.4	2438.2	2298.5	2206.2	2168.3	2154.1	2158.8	2194.3	2206.2
27.5°	3065.4	2911.6	2629.9	2369.5	2215.6	2132.8	2111.5	2118.6	2137.5	2182.5	2196.7
30°	3089.1	2914.0	2580.2	2289.0	2121.0	2042.8	2052.3	2083.1	2111.5	2156.5	2173.0
32.5°	3119.9	2916.3	2528.1	2201.4	2019.2	1962.4	2005.0	2054.7	2083.1	2125.7	2144.6
35°	3195.6	2956.6	2487.9	2116.2	1924.5	1893.7	1964.7	2028.6	2045.2	2083.1	2099.7
37.5°	3283.2	3022.8	2466.6	2028.6	1832.2	1825.1	1915.0	1978.9	1983.7	2007.3	2023.9
40°	3337.7	3051.2	2442.9	1955.3	1749.3	1754.1	1846.4	1896.1	1886.6	1903.2	1915.0
42.5°	3392.1	3060.7	2393.2	1893.7	1671.2	1675.9	1747.0	1782.5	1787.2	1822.7	1839.3
45°	3484.4	3086.8	2338.7	1836.9	1600.2	1583.6	1626.2	1673.6	1735.1	1803.8	1822.7
47.5°	3607.5	3141.2	2281.9	1768.3	1531.5	1477.1	1493.7	1576.5	1640.4	1704.3	1716.2
50°	3733.0	3195.6	2229.8	1685.4	1462.9	1363.5	1370.6	1446.3	1498.4	1548.1	1555.2
52.5°	3856.1	3243.0	2184.9	1607.3	1384.8	1228.5	1257.0	1335.1	1370.6	1394.2	1401.3
55°	3979.2	3283.2	2144.6	1541.0	1294.8	1122.0	1148.1	1221.4	1257.0	1268.8	1273.5
57.5°	4107.0	3330.6	2113.9	1484.2	1193.0	1027.3	1043.9	1096.0	1129.1	1143.3	1138.6
60°	4213.5	3370.8	2097.3	1425.0	1091.3	939.8	935.0	982.4	1029.7	1043.9	1039.2
62.5°	4296.4	3396.8	2071.2	1349.3	1001.3	852.2	828.5	890.0	939.8	949.2	956.3
65°	4341.3	3399.2	2007.3	1252.2	909.0	757.5	740.9	802.5	833.2	842.7	842.7
67.5°	4334.2	3361.3	1881.9	1122.0	823.8	672.3	658.1	695.9	740.9	748.0	740.9
70°	4187.5	3205.1	1680.7	984.7	722.0	596.5	570.5	608.4	651.0	624.9	613.1
72.5°	3770.9	2800.3	1384.8	833.2	608.4	501.8	490.0	527.9	530.2	535.0	523.1
75°	2975.5	2085.5	1036.8	648.6	492.4	421.4	419.0	411.9	421.4	440.3	426.1
77.5°	1562.3	1041.5	561.0	397.7	357.4	338.5	321.9	319.6	348.0	359.8	345.6
80°	847.4	584.7	321.9	239.1	217.8	220.1	241.4	236.7	267.5	274.6	262.8
82.5°	369.3	277.0	158.6	144.4	144.4	142.0	149.1	165.7	198.8	198.8	158.6
85°	80.5	68.6	61.5	71.0	80.5	80.5	80.5	80.5	56.8	30.8	21.3
87.5°	26.0	26.0	26.0	28.4	30.8	30.8	26.0	18.9	11.8	2.4	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)