

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: P835803

Luminaire Tested: **ARCH3-100-722-U-T2R**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835803
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-100-722-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 805mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13915 lumens
Efficiency: N/A
Efficacy: 135.6 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 102.6
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



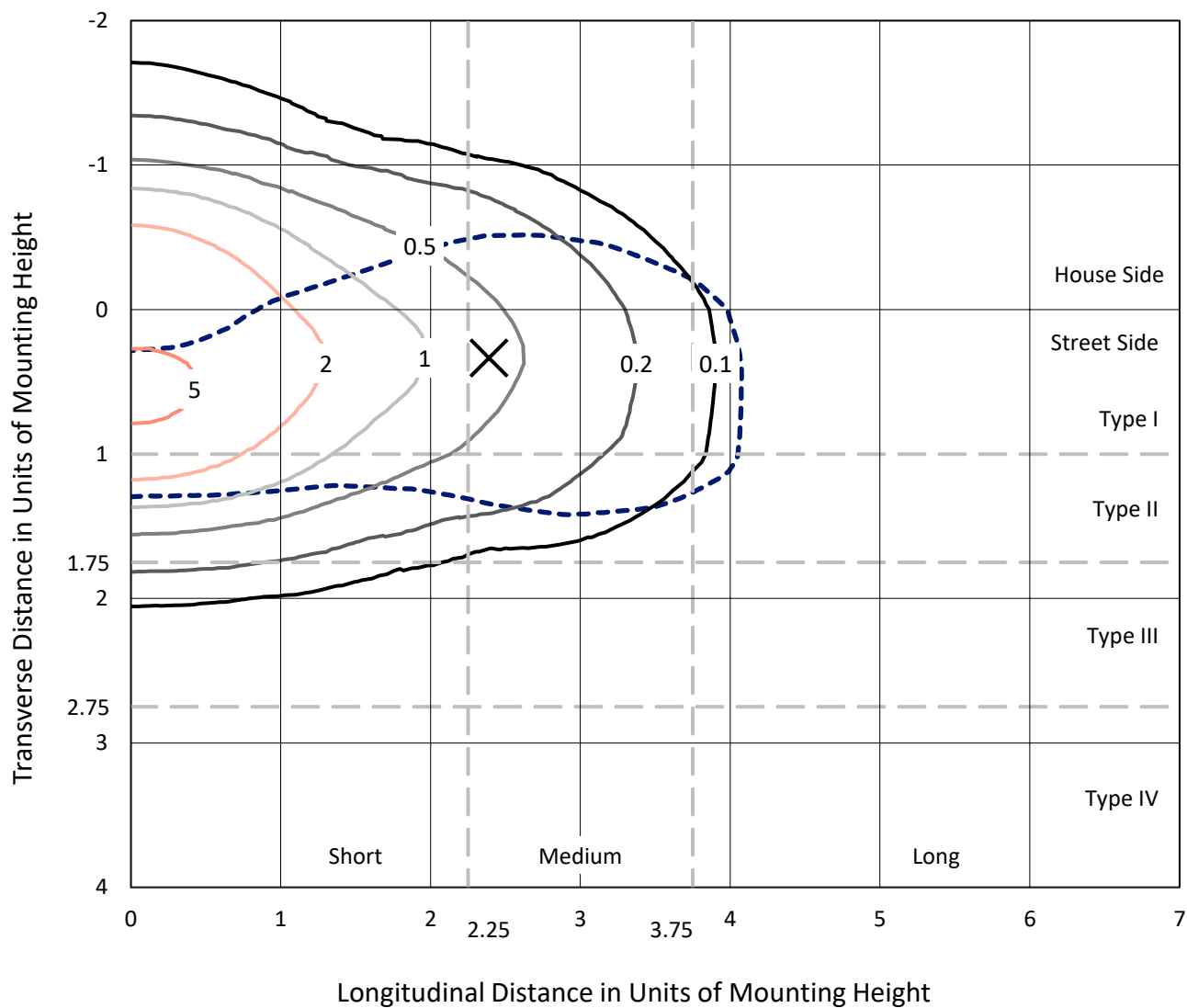
REPORT NUMBER: P835803

CATALOG NUMBER: ARCH3-100-722-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

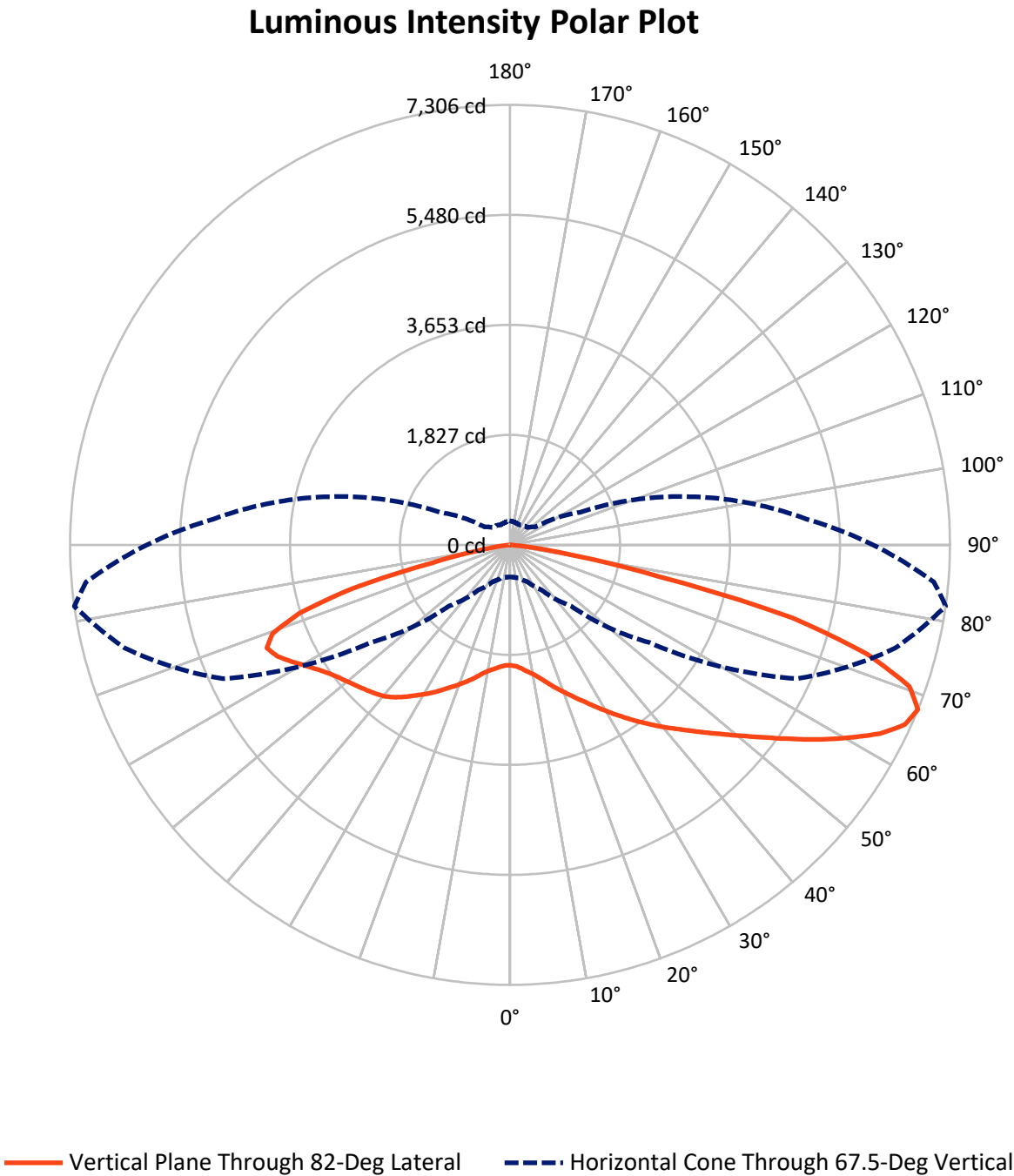
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
Type II - Medium - N/A

REPORT NUMBER: P835803
CATALOG NUMBER: ARCH3-100-722-U-T2R



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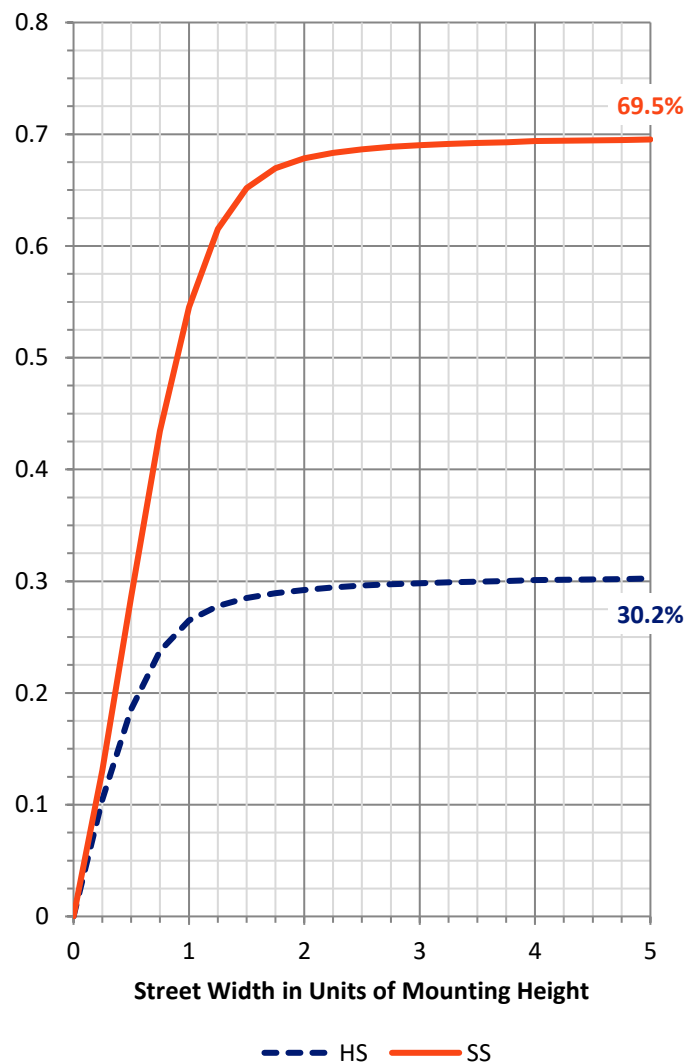
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4237.7	0.0	4237.7
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	9677.3	0.0	9677.3
	% Fixture	69.5	0.0	69.5
Total	Lumens	13915.0	0.0	13915.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.7	1.5
10°-20°	744.6	5.4
20°-30°	1496.5	10.8
30°-40°	2350.8	16.9
40°-50°	2863.7	20.6
50°-60°	2705.9	19.4
60°-70°	2234.4	16.1
70°-80°	1216.7	8.7
80°-90°	95.7	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°	13915.0	100.0
0°-180°	13915.0	100.0

Coefficient of Utilization



REPORT NUMBER: P835803

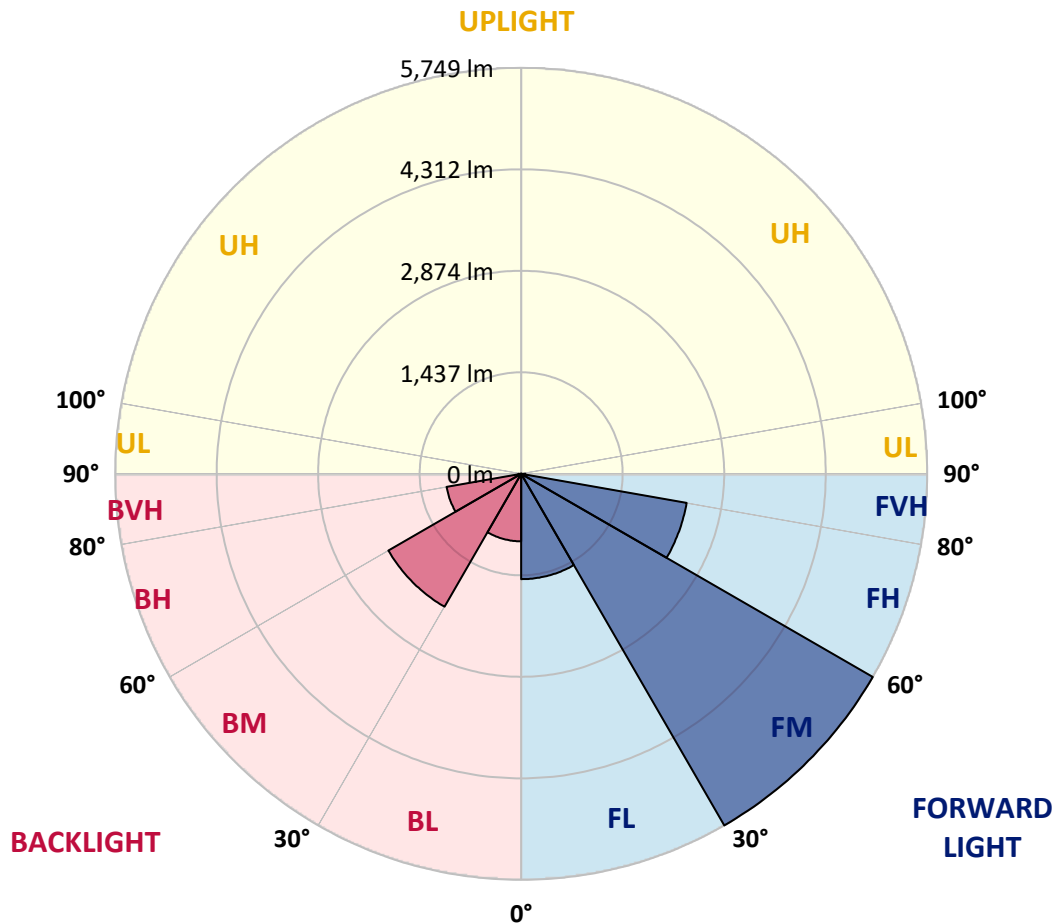
CATALOG NUMBER: ARCH3-100-722-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1492.2	10.7			
FM	(30°-60°)	5748.9	41.3			
FH	(60°-80°)	2378.6	17.1			G2/5000
FVH	(80°-90°)	57.7	0.4			G1/100
BL	(0°-30°)	955.6	6.9	B2/1000		
BM	(30°-60°)	2171.5	15.6	B2/2500		
BH	(60°-80°)	1072.6	7.7	B3/2500		G3/2500
BVH	(80°-90°)	38.0	0.3			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 II Medium



REPORT NUMBER: P835803

CATALOG NUMBER: ARCH3-100-722-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3
2.5°	2091.2	2091.2	2107.4	2107.4	2093.2	2071.0	2064.9	2040.7	2018.5	2018.5	2020.5
5°	2291.2	2289.2	2301.3	2285.2	2250.8	2206.4	2176.1	2123.5	2079.1	2064.9	2062.9
7.5°	2535.7	2533.7	2539.7	2513.5	2448.8	2376.1	2315.5	2230.6	2157.9	2127.6	2119.5
10°	2808.5	2806.4	2800.4	2755.9	2669.1	2555.9	2465.0	2347.8	2238.7	2190.2	2180.1
12.5°	3121.6	3117.6	3103.5	3038.8	2919.6	2774.1	2642.8	2491.3	2345.8	2279.1	2256.9
15°	3471.2	3465.1	3438.9	3360.1	3200.4	3016.6	2846.9	2652.9	2475.1	2388.2	2357.9
17.5°	3838.9	3838.9	3798.5	3681.3	3503.5	3275.2	3065.1	2818.6	2610.5	2503.4	2467.0
20°	4212.7	4210.7	4160.2	4018.7	3808.6	3545.9	3279.2	3008.5	2749.9	2620.6	2576.1
22.5°	4606.7	4602.7	4540.0	4378.4	4127.8	3830.8	3519.7	3196.4	2903.4	2747.9	2691.3
25°	5059.3	5053.2	4976.4	4778.4	4481.4	4146.0	3790.4	3416.6	3079.2	2889.3	2822.6
27.5°	5540.2	5532.1	5441.1	5210.8	4885.5	4481.4	4089.4	3671.2	3273.2	3046.9	2972.1
30°	5968.5	5962.4	5863.4	5627.0	5253.2	4814.8	4374.3	3925.8	3477.2	3214.6	3121.6
32.5°	6291.8	6291.8	6202.9	5970.5	5582.6	5134.0	4661.2	4166.2	3689.4	3394.4	3285.3
35°	6487.8	6493.8	6417.0	6231.2	5865.5	5435.1	4958.3	4449.1	3915.7	3586.3	3469.2
37.5°	6516.0	6536.2	6491.8	6366.5	6061.4	5685.6	5249.2	4721.9	4150.1	3780.3	3649.0
40°	6384.7	6398.9	6400.9	6352.4	6142.3	5865.5	5505.8	5010.8	4398.6	3984.4	3832.8
42.5°	6122.1	6132.2	6150.3	6164.5	6083.7	5944.2	5701.8	5279.5	4663.3	4192.5	4014.7
45°	5782.6	5780.6	5810.9	5871.5	5867.5	5899.8	5810.9	5524.0	4938.1	4428.9	4216.7
47.5°	5275.5	5265.4	5372.5	5509.8	5578.5	5730.1	5812.9	5715.9	5237.1	4689.5	4447.1
50°	4481.4	4471.3	4705.7	5029.0	5231.0	5461.4	5701.8	5831.1	5550.3	4982.5	4697.6
52.5°	3515.6	3505.5	3802.5	4368.3	4808.7	5144.1	5477.5	5857.4	5847.3	5309.8	4980.5
55°	2614.5	2606.4	2895.3	3507.6	4220.8	4776.4	5202.7	5788.7	6126.1	5685.6	5324.0
57.5°	1842.7	1838.6	2089.2	2596.3	3465.1	4327.9	4938.1	5655.3	6382.7	6093.8	5711.9
60°	1293.1	1287.0	1468.9	1860.9	2620.6	3651.0	4675.4	5477.5	6574.6	6495.8	6124.1
62.5°	870.8	866.8	996.1	1323.4	1860.9	2810.5	4277.4	5358.3	6683.7	6899.9	6540.3
65°	660.7	658.7	717.3	897.1	1317.4	2018.5	3644.9	5344.2	6697.9	7203.0	6893.9
67.5°	533.4	535.4	567.8	670.8	911.2	1434.5	2826.6	5255.3	6623.1	7306.1	7065.6
70°	436.4	436.4	450.6	519.3	672.8	967.8	1974.0	4851.2	6415.0	7037.3	6861.5
72.5°	333.4	335.4	379.9	420.3	507.1	678.9	1264.8	4014.7	5924.0	6204.9	6071.5
75°	264.7	262.7	288.9	345.5	394.0	484.9	775.9	2879.2	5041.1	4849.1	4764.3
77.5°	189.9	187.9	208.1	256.6	299.0	343.5	462.7	1452.7	2741.8	2519.5	2456.9
80°	129.3	125.3	143.5	177.8	198.0	202.0	226.3	557.7	1196.1	1127.4	1113.3
82.5°	66.7	66.7	76.8	101.0	103.0	105.1	101.0	179.8	396.0	369.7	353.6
85°	26.3	26.3	28.3	34.3	34.3	36.4	36.4	46.5	42.4	40.4	38.4
87.5°	2.0	2.0	4.0	4.0	6.1	6.1	6.1	8.1	10.1	10.1	10.1
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: P835803

CATALOG NUMBER: ARCH3-100-722-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3	2000.3
2.5°	2016.4	2008.4	1982.1	1976.0	1972.0	1965.9	1967.9	1953.8	1947.7	1949.8	1941.7
5°	2052.8	2038.7	2006.3	1992.2	1988.2	1982.1	1988.2	1978.0	1967.9	1972.0	1967.9
7.5°	2103.3	2083.1	2042.7	2028.6	2026.5	2020.5	2028.6	2020.5	2012.4	2016.4	2008.4
10°	2155.9	2129.6	2085.1	2071.0	2071.0	2069.0	2077.1	2064.9	2056.8	2058.9	2054.8
12.5°	2232.6	2198.3	2149.8	2137.7	2131.6	2137.7	2139.7	2123.5	2109.4	2111.4	2105.3
15°	2325.6	2287.2	2234.6	2216.5	2212.4	2210.4	2202.3	2182.1	2163.9	2161.9	2155.9
17.5°	2426.6	2378.1	2315.5	2297.3	2279.1	2273.0	2252.8	2226.6	2198.3	2198.3	2190.2
20°	2523.6	2469.0	2394.3	2368.0	2341.7	2317.5	2283.1	2240.7	2204.3	2198.3	2190.2
22.5°	2628.6	2564.0	2477.1	2438.7	2392.2	2343.8	2285.2	2228.6	2182.1	2172.0	2166.0
25°	2745.8	2665.0	2562.0	2505.4	2430.6	2355.9	2269.0	2196.3	2141.7	2125.5	2121.5
27.5°	2875.1	2778.2	2652.9	2570.0	2460.9	2343.8	2232.6	2145.7	2079.1	2058.9	2052.8
30°	3006.5	2891.3	2735.7	2614.5	2460.9	2305.4	2166.0	2064.9	1988.2	1959.9	1955.8
32.5°	3137.8	3008.5	2810.5	2638.7	2436.7	2240.7	2079.1	1959.9	1873.0	1838.6	1846.7
35°	3295.4	3137.8	2879.2	2648.8	2396.3	2161.9	1980.1	1840.7	1751.8	1721.4	1727.5
37.5°	3459.1	3267.1	2933.7	2640.8	2339.7	2073.0	1868.9	1733.6	1622.4	1569.9	1576.0
40°	3600.5	3384.3	2972.1	2612.5	2267.0	1972.0	1759.8	1582.0	1428.5	1378.0	1371.9
42.5°	3733.8	3471.2	2992.3	2570.0	2184.1	1854.8	1604.3	1375.9	1222.4	1159.8	1161.8
45°	3873.3	3556.0	2984.2	2513.5	2081.1	1717.4	1404.2	1173.9	1038.5	982.0	984.0
47.5°	4032.9	3647.0	2976.2	2452.9	1955.8	1539.6	1212.3	996.1	878.9	838.5	834.5
50°	4202.6	3748.0	2966.1	2378.1	1816.4	1341.6	1022.4	830.4	731.4	705.1	699.1
52.5°	4394.5	3857.1	2960.0	2289.2	1648.7	1131.5	852.6	684.9	618.3	600.1	598.1
55°	4624.9	3984.4	2968.1	2182.1	1446.7	933.5	709.2	590.0	545.5	535.4	533.4
57.5°	4905.7	4148.0	2992.3	2056.8	1234.5	761.7	604.1	531.4	503.1	495.0	495.0
60°	5210.8	4333.9	3036.8	1915.4	1022.4	628.4	535.4	484.9	472.8	482.9	482.9
62.5°	5540.2	4552.1	3115.6	1743.7	824.4	531.4	480.9	446.5	438.4	458.6	460.7
65°	5845.2	4764.3	3166.1	1537.6	654.6	460.7	438.4	408.1	412.2	432.4	430.4
67.5°	6033.1	4940.1	3095.4	1279.0	519.3	408.1	394.0	367.7	377.8	394.0	396.0
70°	5918.0	4841.1	2745.8	965.8	406.1	355.6	345.5	329.3	337.4	357.6	365.7
72.5°	5354.3	4335.9	2135.6	652.6	327.3	299.0	303.1	295.0	305.1	323.3	341.5
75°	4346.0	3277.2	1432.5	418.2	258.6	254.6	260.6	254.6	258.6	276.8	286.9
77.5°	2269.0	1598.2	713.2	260.6	191.9	198.0	208.1	210.1	222.3	226.3	230.3
80°	1058.7	719.3	297.0	145.5	127.3	139.4	159.6	161.6	165.7	171.7	173.8
82.5°	345.5	216.2	137.4	78.8	72.7	78.8	103.0	123.2	125.3	137.4	137.4
85°	36.4	22.2	30.3	32.3	28.3	34.3	46.5	44.5	20.2	12.1	12.1
87.5°	10.1	8.1	10.1	10.1	8.1	8.1	6.1	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)