

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: P399562

Luminaire Tested: **ARCH-L-PA3-160-730-U-T2R**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399562
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-160-730-U-T2R
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 705mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22855 lumens
Efficiency: N/A
Efficacy: 141.1 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

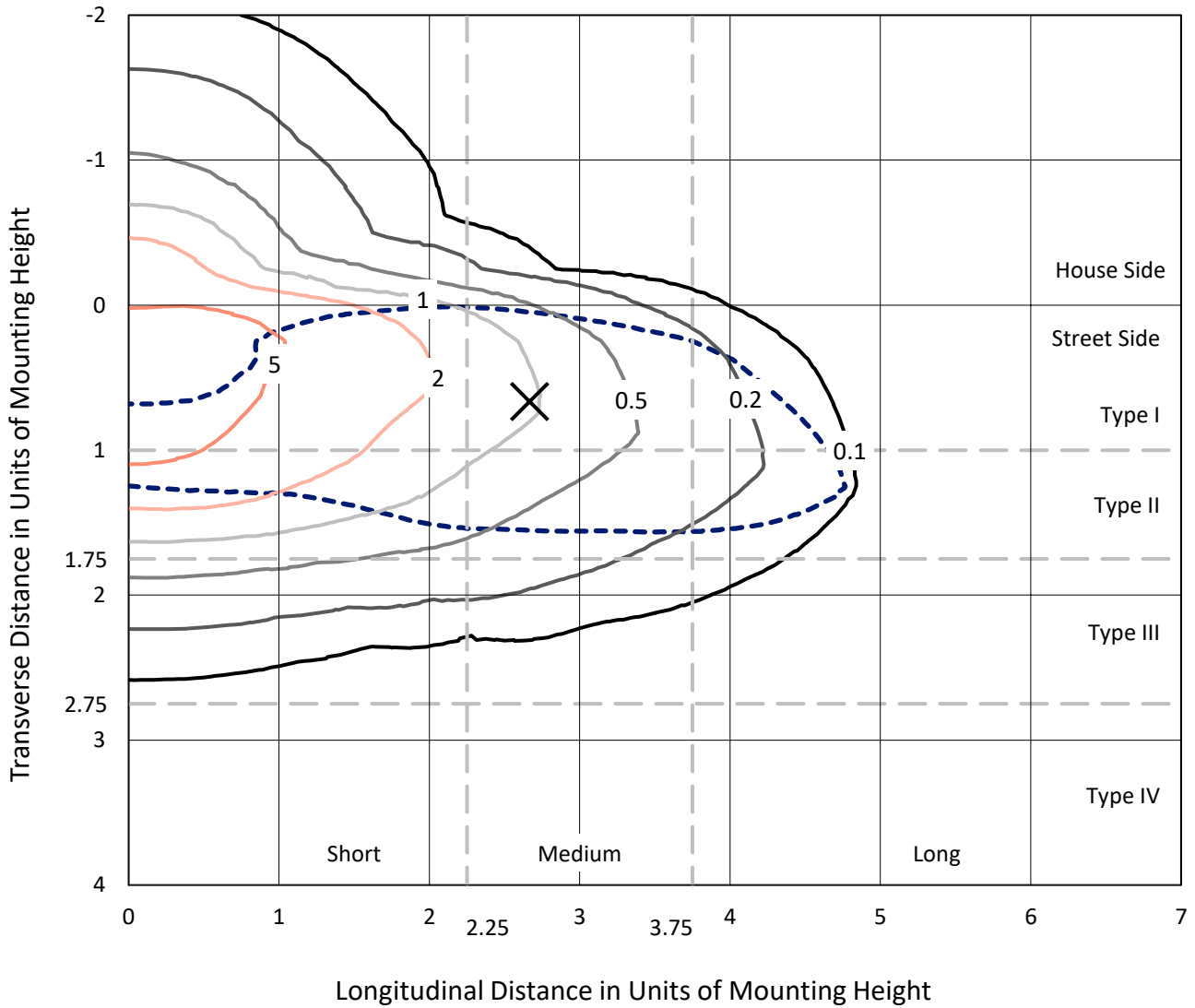
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

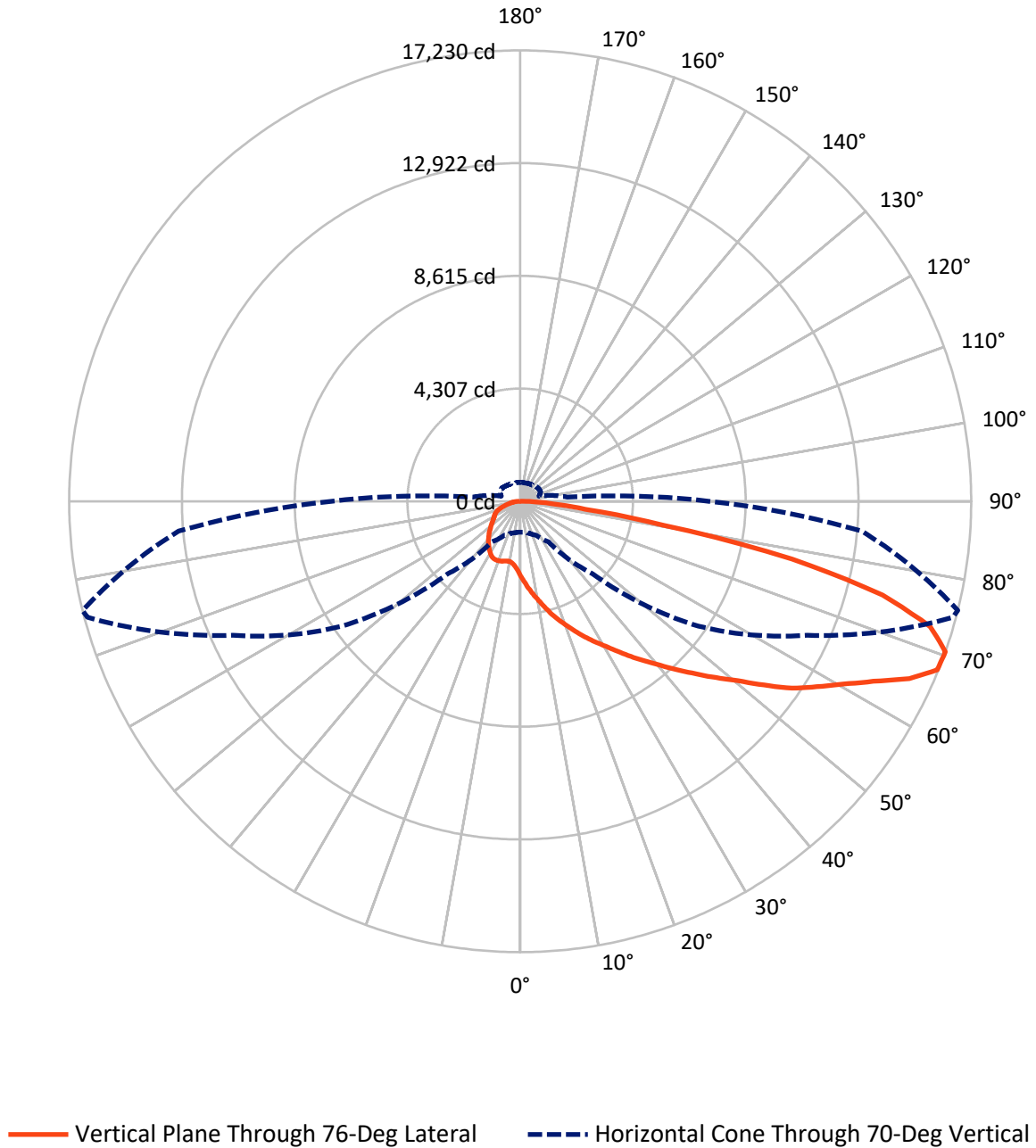
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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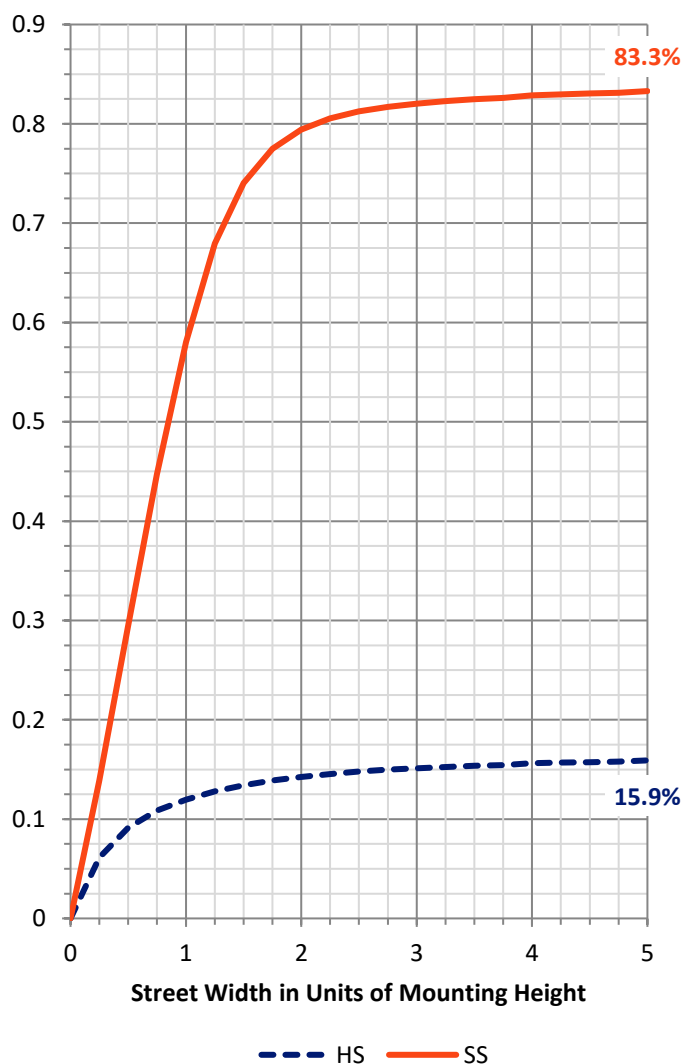
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3731.3	0.0	3731.3
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	19123.7	0.0	19123.7
	% Fixture	83.7	0.0	83.7
Total	Lumens	22855.0	0.0	22855.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.0	1.3
10°-20°	1009.3	4.4
20°-30°	1805.8	7.9
30°-40°	2921.1	12.8
40°-50°	4225.8	18.5
50°-60°	4836.7	21.2
60°-70°	4449.2	19.5
70°-80°	2751.3	12.0
80°-90°	558.7	2.4
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°	22855.0	100.0
0°-180°	22855.0	100.0

Coefficient of Utilization



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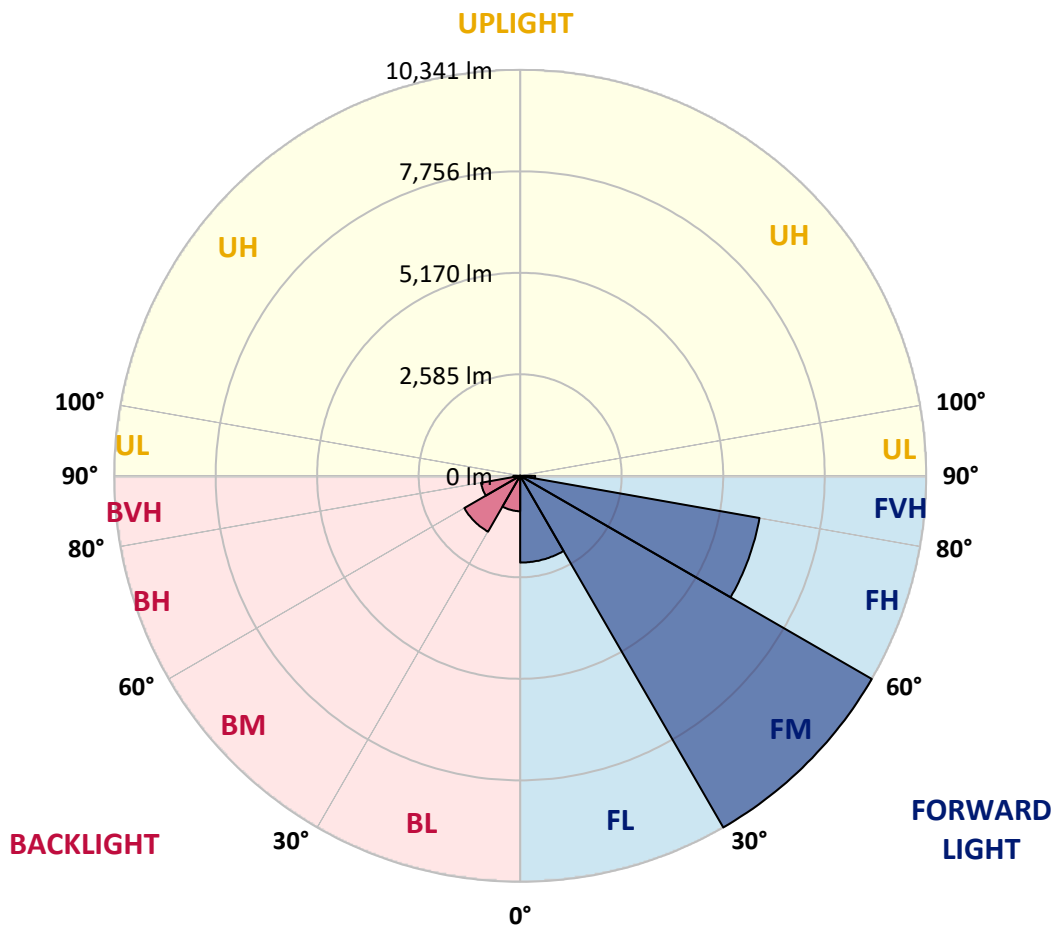
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2210.8	9.7			
FM (30°-60°)	10340.8	45.2			
FH (60°-80°)	6188.5	27.1			G3/7500
FVH (80°-90°)	383.5	1.7			G3/500
BL (0°-30°)	901.2	3.9	B2/1000		
BM (30°-60°)	1642.9	7.2	B2/2500		
BH (60°-80°)	1012.1	4.4	B3/2500		G3/2500
BVH (80°-90°)	175.2	0.8			G2/225
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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2858.1	2858.1	2858.1	2858.1	2858.1	2858.1	2858.1	2858.1	2858.1	2858.1	2858.1
2.5°	3642.5	3615.5	3612.5	3570.4	3531.3	3426.1	3351.0	3218.8	3086.5	3083.5	2951.3
5°	4210.5	4183.5	4168.5	4117.4	4051.3	3913.0	3777.8	3573.4	3348.0	3333.0	3083.5
7.5°	4595.2	4571.2	4541.1	4520.1	4457.0	4333.8	4168.5	3925.0	3615.5	3585.4	3236.8
10°	4853.7	4838.7	4832.6	4817.6	4778.6	4679.4	4520.1	4261.6	3882.9	3849.9	3399.1
12.5°	4964.9	4958.9	4985.9	5028.0	5043.0	5004.0	4850.7	4607.2	4177.5	4141.4	3594.4
15°	4835.7	4841.7	4910.8	5055.0	5208.3	5292.5	5202.3	4964.9	4511.1	4460.0	3822.8
17.5°	4775.5	4784.6	4832.6	4970.9	5187.3	5448.8	5490.8	5304.5	4832.6	4760.5	4063.3
20°	4880.7	4892.8	4928.8	5037.0	5187.3	5466.8	5686.2	5629.1	5148.2	5073.1	4294.7
22.5°	5148.2	5163.2	5160.2	5229.4	5331.5	5523.9	5794.4	5935.6	5478.8	5394.7	4535.1
25°	5719.2	5707.2	5605.0	5572.0	5599.0	5722.2	5938.6	6230.2	5824.4	5740.3	4787.6
27.5°	6494.6	6479.6	6293.3	6125.0	5974.7	6028.8	6143.0	6467.6	6176.1	6079.9	5028.0
30°	7324.1	7306.1	7089.7	6816.2	6482.6	6404.5	6389.4	6674.9	6530.7	6428.5	5283.5
32.5°	8132.6	8117.5	7886.1	7567.5	7107.7	6873.3	6729.0	6906.4	6933.4	6834.2	5563.0
35°	8868.9	8868.9	8670.5	8291.8	7771.9	7417.3	7179.9	7191.9	7396.2	7282.0	5881.5
37.5°	9524.0	9521.0	9304.7	8932.0	8433.1	8027.4	7732.8	7537.5	7838.0	7738.9	6215.1
40°	10044.0	10022.9	9863.7	9539.1	9037.2	8634.5	8336.9	7943.2	8330.9	8240.7	6569.8
42.5°	10422.7	10410.6	10302.4	10019.9	9542.1	9163.4	8959.0	8454.1	8889.9	8799.8	6984.5
45°	10569.9	10594.0	10594.0	10326.5	9947.8	9602.2	9512.0	9016.1	9494.0	9403.8	7429.3
47.5°	10332.5	10395.6	10524.8	10542.9	10209.3	9974.9	10004.9	9581.1	10116.1	10068.0	7916.2
50°	9590.2	9707.4	9989.9	10500.8	10314.5	10260.4	10425.7	10158.2	10783.3	10768.3	8508.2
52.5°	7675.7	7961.2	8841.8	9758.5	10242.3	10392.6	10843.4	10807.3	11642.8	11666.9	9280.6
55°	5887.5	5995.7	7014.6	8574.3	9800.5	10350.5	11122.9	11441.5	12574.5	12604.6	9989.9
57.5°	4760.5	4832.6	5388.6	7014.6	8793.7	10122.1	11342.3	11811.1	13289.8	13367.9	10621.0
60°	3771.8	3876.9	4249.6	5367.6	7384.2	9572.1	11495.6	12222.9	14059.2	14176.4	11375.4
62.5°	2804.0	2855.1	3206.7	3976.1	5845.5	8583.4	11414.4	12670.7	15002.9	15144.1	12283.0
65°	1995.6	2040.7	2290.1	2828.1	4321.7	7246.0	10942.6	13004.3	16187.0	16331.2	13196.6
67.5°	1493.7	1511.7	1653.0	1977.5	2912.2	5629.1	9986.9	12947.2	17052.5	17181.8	13563.3
70°	1181.1	1187.1	1256.2	1430.6	1893.4	3919.0	8312.9	12108.7	17115.6	17229.8	13100.4
72.5°	979.8	976.7	1015.8	1100.0	1319.4	2479.4	6158.0	10551.9	16304.2	16382.3	11808.1
75°	808.4	814.5	841.5	889.6	1006.8	1634.9	3991.1	8418.1	14383.7	14299.6	9908.7
77.5°	679.2	676.2	688.2	730.3	814.5	1175.1	2338.2	6082.9	10660.1	10618.0	6503.6
80°	547.0	553.0	571.0	607.1	685.2	895.6	1382.5	3795.8	5719.2	5566.0	3107.6
82.5°	366.7	423.8	459.8	501.9	592.1	661.2	877.6	1929.5	2557.6	2518.5	1409.5
85°	174.3	231.4	342.6	390.7	480.9	414.7	595.1	919.6	1280.3	1265.3	507.9
87.5°	36.1	36.1	183.3	219.4	297.5	177.3	330.6	399.7	619.1	580.0	207.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2858.1	2858.1	2858.1	2858.1	2858.1	2858.1	2858.1	2858.1	2858.1	2858.1	2858.1
2.5°	2873.1	2792.0	2629.7	2500.5	2368.2	2293.1	2199.9	2154.9	2145.8	2121.8	2139.8
5°	2924.2	2764.9	2458.4	2257.0	2121.8	2055.7	2022.6	2010.6	2007.6	2001.6	2001.6
7.5°	2993.4	2749.9	2350.2	2145.8	2058.7	2037.6	2046.7	2064.7	2067.7	2073.7	2070.7
10°	3077.5	2752.9	2290.1	2118.8	2076.7	2079.7	2109.8	2133.8	2145.8	2154.9	2151.9
12.5°	3194.7	2789.0	2281.1	2136.8	2118.8	2130.8	2160.9	2184.9	2196.9	2199.9	2199.9
15°	3348.0	2864.1	2302.1	2175.9	2160.9	2169.9	2187.9	2196.9	2199.9	2196.9	2196.9
17.5°	3516.3	2954.3	2332.2	2199.9	2175.9	2166.9	2160.9	2151.9	2133.8	2121.8	2121.8
20°	3678.6	3035.4	2347.2	2196.9	2154.9	2118.8	2082.7	2037.6	2007.6	1983.6	1983.6
22.5°	3840.9	3110.6	2347.2	2163.9	2097.8	2028.6	1953.5	1881.4	1836.3	1806.2	1806.2
25°	4012.2	3182.7	2329.2	2106.8	2007.6	1908.4	1806.2	1716.1	1671.0	1640.9	1634.9
27.5°	4156.4	3224.8	2281.1	2025.6	1896.4	1770.2	1653.0	1559.8	1526.7	1499.7	1499.7
30°	4309.7	3251.8	2190.9	1920.4	1770.2	1625.9	1505.7	1430.6	1394.5	1355.4	1352.4
32.5°	4481.0	3269.9	2088.7	1809.2	1640.9	1487.7	1385.5	1325.4	1247.2	1205.2	1199.1
35°	4679.4	3293.9	1980.5	1683.0	1511.7	1373.5	1313.4	1214.2	1139.0	1103.0	1100.0
37.5°	4889.8	3311.9	1863.3	1571.8	1394.5	1298.3	1238.2	1121.0	1054.9	1000.8	994.8
40°	5112.1	3311.9	1743.1	1463.6	1301.3	1265.3	1151.1	1045.9	934.7	907.6	901.6
42.5°	5358.6	3305.9	1622.9	1358.4	1214.2	1190.1	1100.0	988.8	931.7	907.6	901.6
45°	5620.1	3284.9	1508.7	1238.2	1124.0	1075.9	1006.8	976.7	952.7	952.7	952.7
47.5°	5917.6	3266.8	1379.5	1130.0	1057.9	1003.8	952.7	934.7	931.7	940.7	949.7
50°	6299.3	3260.8	1271.3	1051.9	1006.8	943.7	937.7	922.7	925.7	925.7	925.7
52.5°	6762.1	3206.7	1169.1	994.8	955.7	880.6	898.6	913.6	919.6	916.6	913.6
55°	7101.7	3110.6	1081.9	955.7	919.6	856.5	880.6	904.6	910.6	901.6	901.6
57.5°	7408.3	2975.3	1012.8	925.7	895.6	841.5	868.6	892.6	886.6	883.6	880.6
60°	7759.9	2846.1	958.7	910.6	871.6	835.5	859.5	874.6	865.5	859.5	856.5
62.5°	8141.6	2719.9	919.6	910.6	853.5	832.5	850.5	856.5	838.5	832.5	832.5
65°	8318.9	2521.5	877.6	910.6	844.5	826.5	832.5	826.5	808.4	808.4	805.4
67.5°	8027.4	2193.9	823.5	898.6	856.5	817.5	805.4	796.4	775.4	775.4	769.4
70°	7221.9	1803.2	745.3	859.5	859.5	814.5	769.4	748.3	724.3	733.3	721.3
72.5°	6170.0	1430.6	649.2	793.4	841.5	811.5	730.3	697.2	676.2	685.2	667.2
75°	4997.9	1109.0	535.0	688.2	796.4	796.4	691.2	646.2	622.1	622.1	601.1
77.5°	3185.7	820.5	435.8	571.0	715.3	775.4	658.2	589.1	553.0	544.0	528.9
80°	1577.8	577.0	357.6	453.8	610.1	727.3	634.1	522.9	471.8	453.8	426.8
82.5°	838.5	399.7	285.5	354.6	486.9	655.2	604.1	450.8	387.7	360.6	330.6
85°	375.7	246.4	228.4	270.5	369.7	538.0	544.0	369.7	297.5	354.6	261.5
87.5°	138.2	111.2	111.2	138.2	213.4	225.4	384.7	237.4	189.3	129.2	102.2
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)