

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: P320946

Luminaire Tested: **GAN-SA2A-740-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320946
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2A-740-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9782 lumens
Efficiency: N/A
Efficacy: 148.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

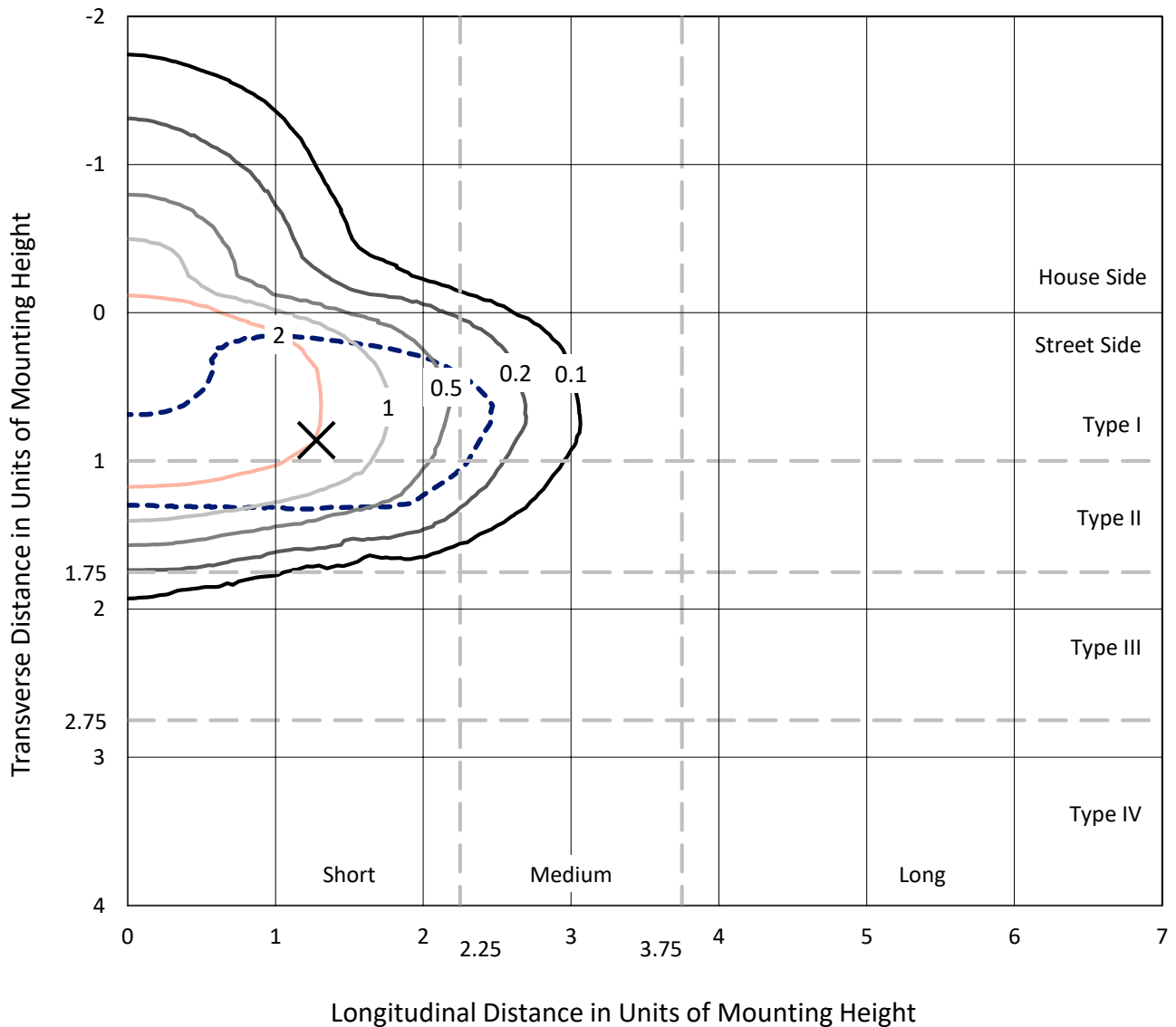
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

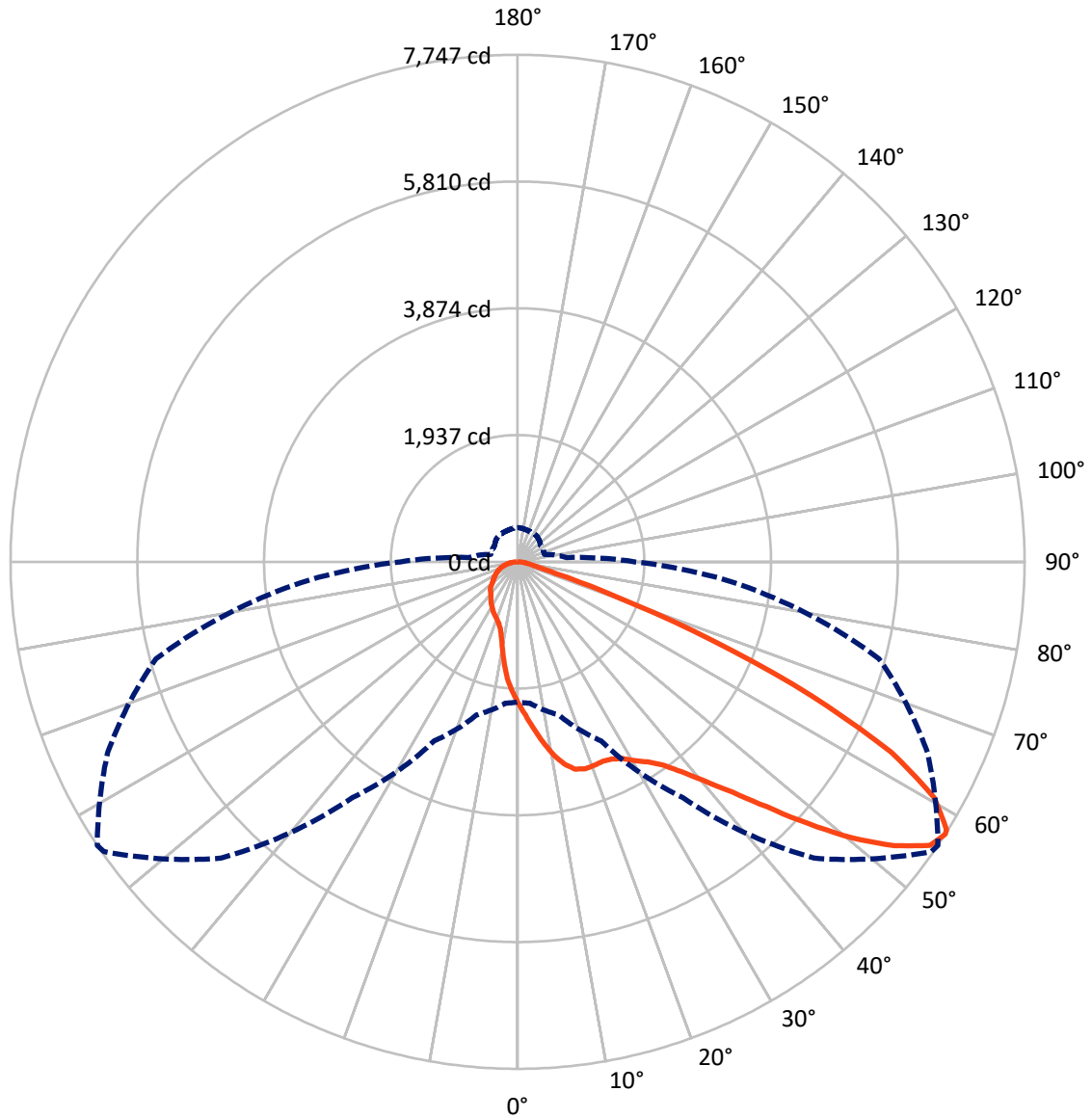
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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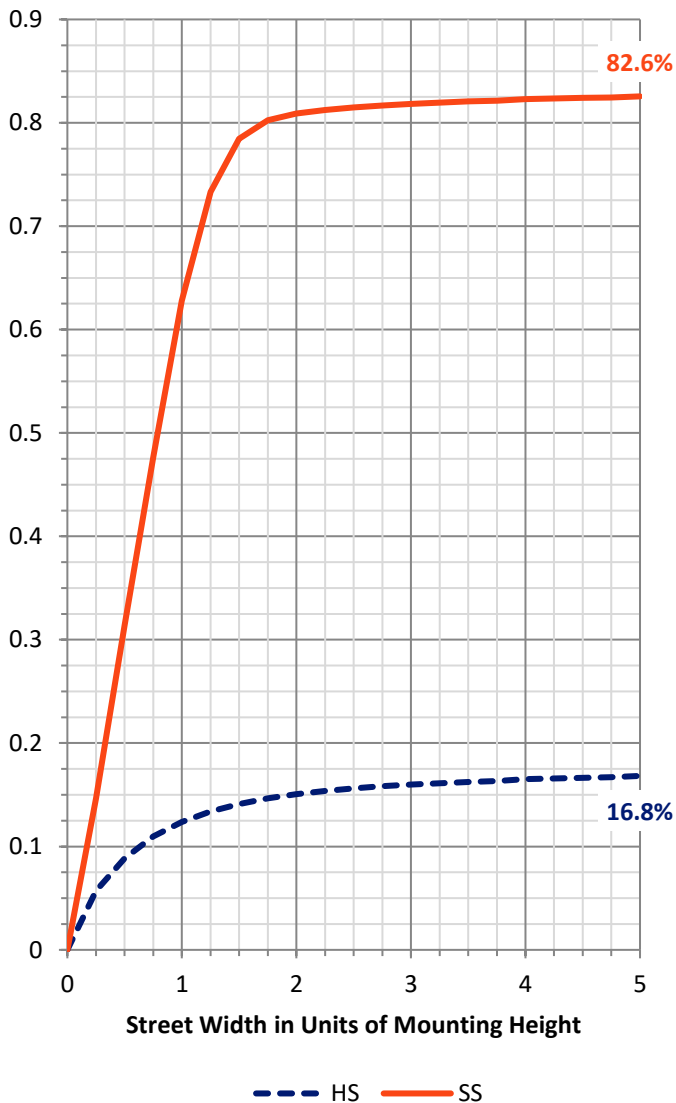
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1686.2	0.0	1686.2
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	8095.8	0.0	8095.8
	% Fixture	82.8	0.0	82.8
Total	Lumens	9782.0	0.0	9782.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.3	2.1
10°-20°	586.0	6.0
20°-30°	954.4	9.8
30°-40°	1426.7	14.6
40°-50°	2164.1	22.1
50°-60°	2425.6	24.8
60°-70°	1432.6	14.6
70°-80°	469.4	4.8
80°-90°	116.0	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°	9782.0	100.0
0°-180°	9782.0	100.0

Coefficient of Utilization



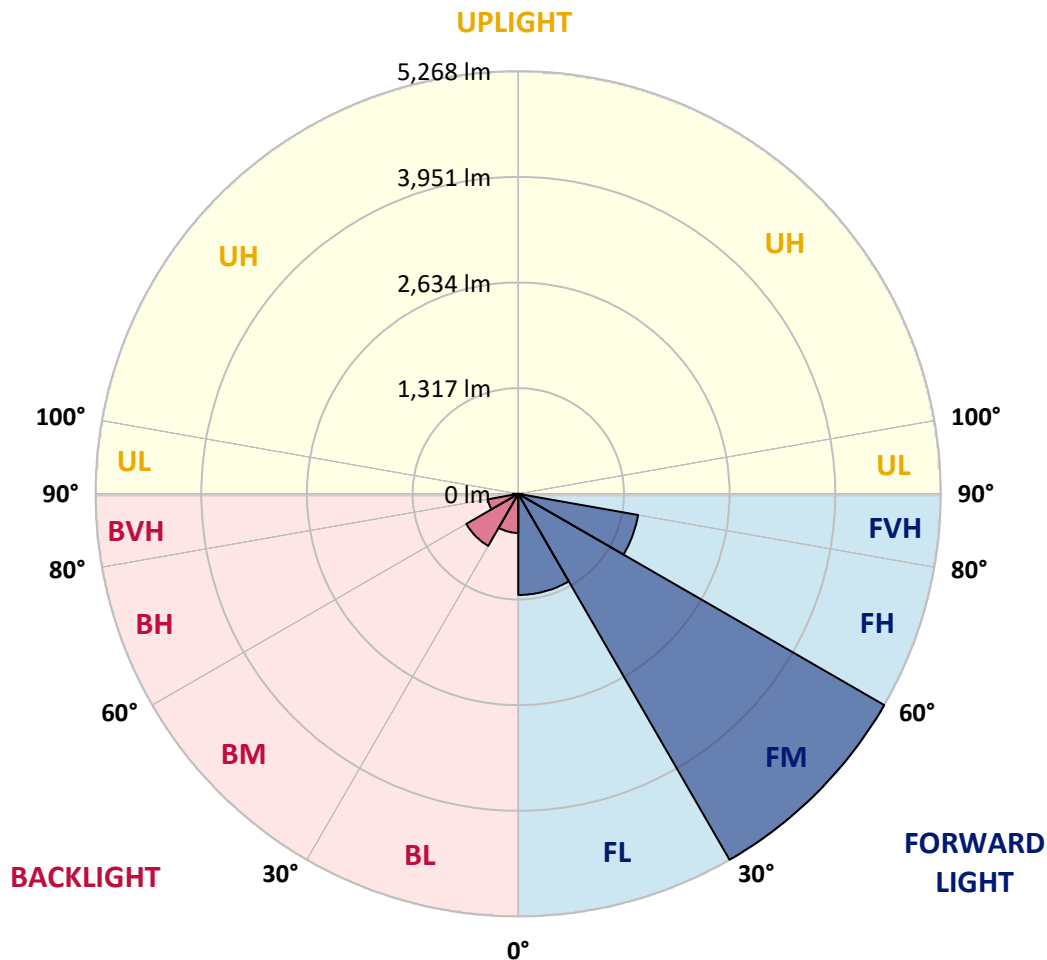
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1260.1	12.9			
FM (30°-60°)	5267.9	53.9			
FH (60°-80°)	1516.7	15.5			G1/1800
FVH (80°-90°)	51.1	0.5			G1/100
BL (0°-30°)	487.6	5.0	B1/500		
BM (30°-60°)	748.5	7.7	B1/1000		
BH (60°-80°)	385.3	3.9	B1/500		G1/500
BVH (80°-90°)	64.9	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2169.7	2169.7	2169.7	2169.7	2169.7	2169.7	2169.7	2169.7	2169.7	2169.7	2169.7
2.5°	2491.4	2514.2	2504.1	2469.2	2442.3	2404.3	2361.9	2349.2	2304.5	2254.4	2194.2
5°	2885.7	2874.3	2857.8	2803.3	2745.9	2679.0	2572.7	2555.9	2456.4	2343.1	2223.4
7.5°	3110.3	3109.3	3099.5	3067.6	3015.1	2927.7	2799.6	2779.8	2629.5	2447.3	2261.8
10°	3077.7	3075.3	3091.4	3124.7	3140.5	3122.4	3014.5	2994.6	2810.1	2562.6	2306.1
12.5°	2892.4	2893.8	2919.7	2989.6	3084.7	3199.0	3181.5	3171.8	2997.3	2693.1	2359.9
15°	2748.2	2751.2	2771.7	2832.6	2944.9	3152.3	3283.1	3286.4	3178.5	2837.0	2422.8
17.5°	2685.0	2691.4	2700.8	2743.5	2846.4	3059.2	3307.3	3325.4	3337.2	2986.2	2483.3
20°	2705.2	2711.2	2713.9	2741.1	2825.5	3002.7	3290.5	3323.1	3458.9	3126.7	2543.8
22.5°	2795.6	2799.3	2801.0	2808.0	2873.6	3018.8	3279.4	3313.7	3547.0	3252.8	2589.5
25°	2945.5	2942.9	2932.1	2923.0	2967.1	3082.7	3304.9	3337.5	3618.6	3367.1	2619.5
27.5°	3125.1	3121.7	3100.9	3076.0	3101.2	3182.2	3378.5	3404.4	3682.8	3474.0	2634.6
30°	3340.5	3331.8	3292.5	3262.9	3272.6	3331.5	3499.9	3523.4	3781.9	3595.4	2649.4
32.5°	3589.6	3580.2	3523.4	3474.3	3474.3	3523.4	3624.9	3644.4	3866.0	3732.5	2673.2
35°	3901.6	3889.9	3815.9	3733.5	3710.3	3735.2	3795.4	3809.2	4017.3	3905.3	2716.6
37.5°	4269.4	4253.6	4157.8	4047.5	3996.8	3995.4	4038.8	4067.0	4259.0	4132.2	2790.2
40°	4638.2	4627.1	4543.4	4456.6	4357.1	4325.2	4392.1	4400.8	4575.0	4413.9	2884.4
42.5°	4923.2	4921.2	4905.8	4917.2	4815.3	4750.8	4803.2	4810.3	4960.9	4718.9	2984.5
45°	5073.8	5077.2	5152.2	5318.2	5355.9	5308.8	5334.7	5336.7	5402.0	5026.4	3076.3
47.5°	4953.2	4970.6	5160.2	5531.7	5840.0	5996.3	5953.3	5978.2	5829.6	5290.7	3148.3
50°	4482.9	4504.4	4827.1	5436.6	6065.9	6661.6	6639.1	6633.4	6174.5	5484.3	3187.3
52.5°	3900.3	3917.1	4183.3	4942.1	5900.2	7029.4	7236.1	7206.5	6481.1	5629.2	3194.6
55°	3013.1	3039.3	3294.5	3955.1	5229.8	6888.8	7675.2	7648.6	6760.4	5705.2	3185.9
57°	2142.1	2169.7	2423.1	3018.5	4399.5	6402.4	7718.9	7747.1	6911.4	5718.0	3195.7
57.5°	1911.5	1939.7	2190.8	2769.1	4140.6	6226.6	7681.2	7728.3	6938.6	5715.9	3201.0
60°	962.5	973.2	1133.2	1545.7	2617.4	5033.8	7190.1	7311.4	6963.1	5617.1	3224.2
62.5°	598.4	590.7	585.6	712.0	1273.4	3338.2	6176.5	6410.1	6493.5	5377.7	3168.1
65°	526.1	511.7	456.2	446.1	562.4	1621.4	4651.3	4942.1	5490.0	5000.6	3034.3
67.5°	494.2	480.1	417.5	379.9	380.2	642.8	2887.7	3215.2	4276.8	4362.8	2718.6
70°	461.2	448.5	390.0	345.6	323.7	356.0	1328.6	1577.0	2787.9	3429.3	2272.2
72.5°	418.9	410.1	354.7	308.9	285.7	266.6	508.6	600.7	1614.0	2303.1	1578.0
75°	374.5	366.4	319.0	275.3	247.1	209.8	286.4	308.6	819.9	1178.3	776.9
77.5°	325.8	321.0	283.7	243.4	220.9	173.8	202.7	213.5	351.6	505.3	389.6
80°	259.2	268.3	248.1	216.8	196.0	139.2	143.5	150.6	204.7	246.8	221.2
82.5°	168.8	184.6	194.3	176.2	161.4	109.6	103.2	106.2	133.5	150.6	96.1
85°	70.3	79.0	127.7	115.3	107.2	80.0	69.3	70.6	82.7	85.7	39.3
87.5°	31.3	33.3	56.1	52.8	45.4	27.6	29.6	32.3	44.0	41.7	15.1
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°	2169.7	2169.7	2169.7	2169.7	2169.7	2169.7	2169.7	2169.7	2169.7	2169.7	2169.7
2.5°	2171.7	2143.4	2095.0	2041.6	1997.9	1962.9	1927.6	1903.4	1875.2	1860.0	1852.3
5°	2173.4	2117.9	2016.0	1911.5	1818.0	1732.6	1651.3	1588.8	1530.3	1498.7	1489.9
7.5°	2180.4	2097.0	1932.3	1760.2	1594.1	1442.5	1325.5	1252.2	1199.5	1175.9	1169.2
10°	2186.1	2072.5	1828.8	1574.0	1348.1	1194.4	1103.7	1062.6	1044.5	1041.5	1038.4
12.5°	2199.6	2047.3	1719.9	1379.7	1156.8	1050.5	1018.9	1016.2	1021.3	1028.7	1028.7
15°	2220.8	2022.4	1595.5	1212.9	1035.1	997.8	1004.1	1018.9	1032.7	1044.2	1045.8
17.5°	2236.2	1991.8	1461.7	1079.4	970.2	980.3	1003.1	1024.0	1038.1	1049.2	1050.2
20°	2247.3	1944.4	1318.8	977.6	932.9	964.1	992.7	1011.2	1021.0	1032.0	1033.7
22.5°	2241.6	1880.9	1192.1	904.6	902.6	940.6	967.8	990.0	982.6	971.9	978.9
25°	2214.0	1793.5	1061.6	850.2	870.7	909.0	942.6	927.8	903.0	898.3	900.9
27.5°	2165.0	1681.9	940.9	799.8	833.7	879.8	877.7	863.0	854.2	848.2	851.9
30°	2112.2	1560.8	835.4	755.7	792.7	830.7	822.9	822.6	813.9	804.1	808.8
32.5°	2060.1	1439.2	751.7	719.4	761.8	766.8	783.6	788.7	771.5	751.0	749.7
35°	2014.7	1324.2	688.1	686.5	724.5	725.1	749.7	742.6	699.9	678.7	678.7
37.5°	1980.7	1209.5	639.7	656.9	675.4	692.9	705.3	676.0	669.0	657.2	656.9
40°	1965.9	1108.7	609.5	634.4	640.7	662.9	631.0	642.4	645.8	639.7	639.7
42.5°	1950.5	1021.0	583.3	617.2	616.2	613.2	597.0	611.8	625.3	625.6	624.6
45°	1935.0	945.3	560.1	580.6	594.7	562.1	565.1	580.9	599.7	606.5	606.5
47.5°	1917.9	885.5	538.9	541.9	563.8	541.9	539.6	551.7	573.8	584.6	587.0
50°	1880.2	831.7	514.7	508.0	514.0	521.4	523.4	529.1	553.7	570.8	574.9
52.5°	1828.1	783.6	483.8	476.7	476.7	504.6	514.0	515.7	536.5	557.0	561.1
55°	1784.7	753.0	451.8	450.5	449.1	486.8	502.9	505.6	520.1	536.2	538.2
57°	1787.8	750.7	427.3	428.6	428.3	468.6	492.5	498.2	505.6	519.4	521.7
57.5°	1789.4	752.4	421.9	422.6	422.2	463.6	489.5	495.9	501.6	516.0	518.4
60°	1814.7	756.7	400.0	392.6	394.3	436.7	472.3	480.4	484.1	503.3	506.3
62.5°	1777.3	737.2	382.6	364.7	364.7	408.4	448.5	461.2	466.9	492.8	497.9
65°	1669.1	682.4	362.1	333.1	336.5	380.2	419.9	440.7	449.5	481.7	487.1
67.5°	1502.0	618.9	340.2	304.9	308.3	350.6	390.3	412.8	426.6	469.6	474.0
70°	1284.5	541.2	310.6	275.0	279.0	318.4	355.3	380.9	401.4	458.2	459.5
72.5°	947.0	443.7	269.3	242.0	246.4	280.7	320.0	349.6	377.2	429.6	429.0
75°	563.1	346.9	223.6	208.8	211.8	243.7	288.1	324.1	365.4	418.5	424.9
77.5°	341.6	261.2	182.2	174.8	178.5	211.1	265.2	303.6	360.4	394.7	392.6
80°	206.4	186.6	145.6	140.9	144.6	180.5	245.4	288.1	315.0	337.2	337.2
82.5°	107.9	114.0	106.9	103.2	108.2	146.6	223.2	251.5	278.4	239.0	223.2
85°	44.0	59.5	64.9	64.5	67.6	101.5	192.6	215.2	179.5	170.4	174.5
87.5°	14.8	25.2	31.6	27.2	28.6	63.9	133.5	103.9	123.4	86.1	81.7
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)