

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: P320936

Luminaire Tested: **GAN-SA2D-730-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320936
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-SA2D-730-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14832 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

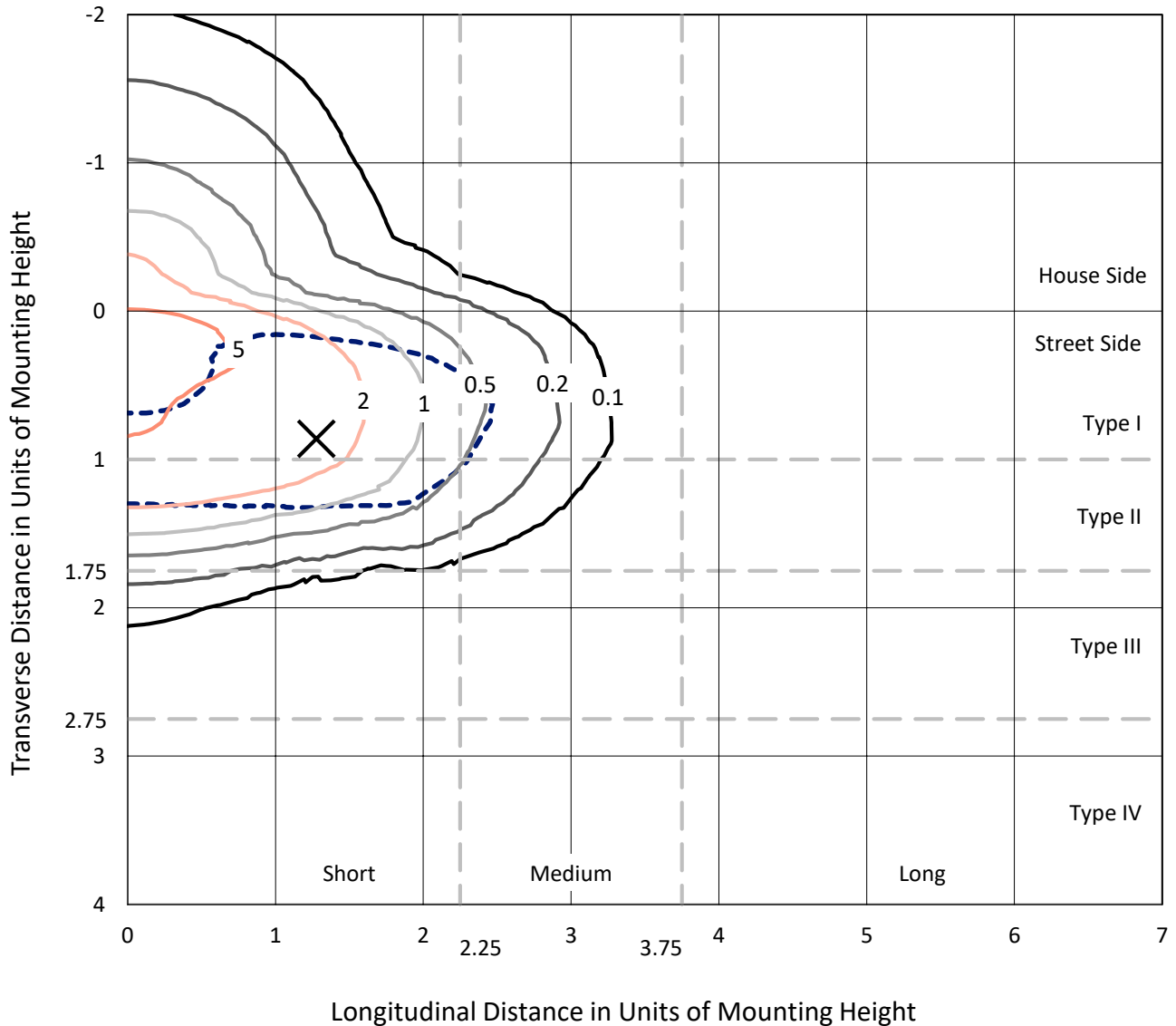
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

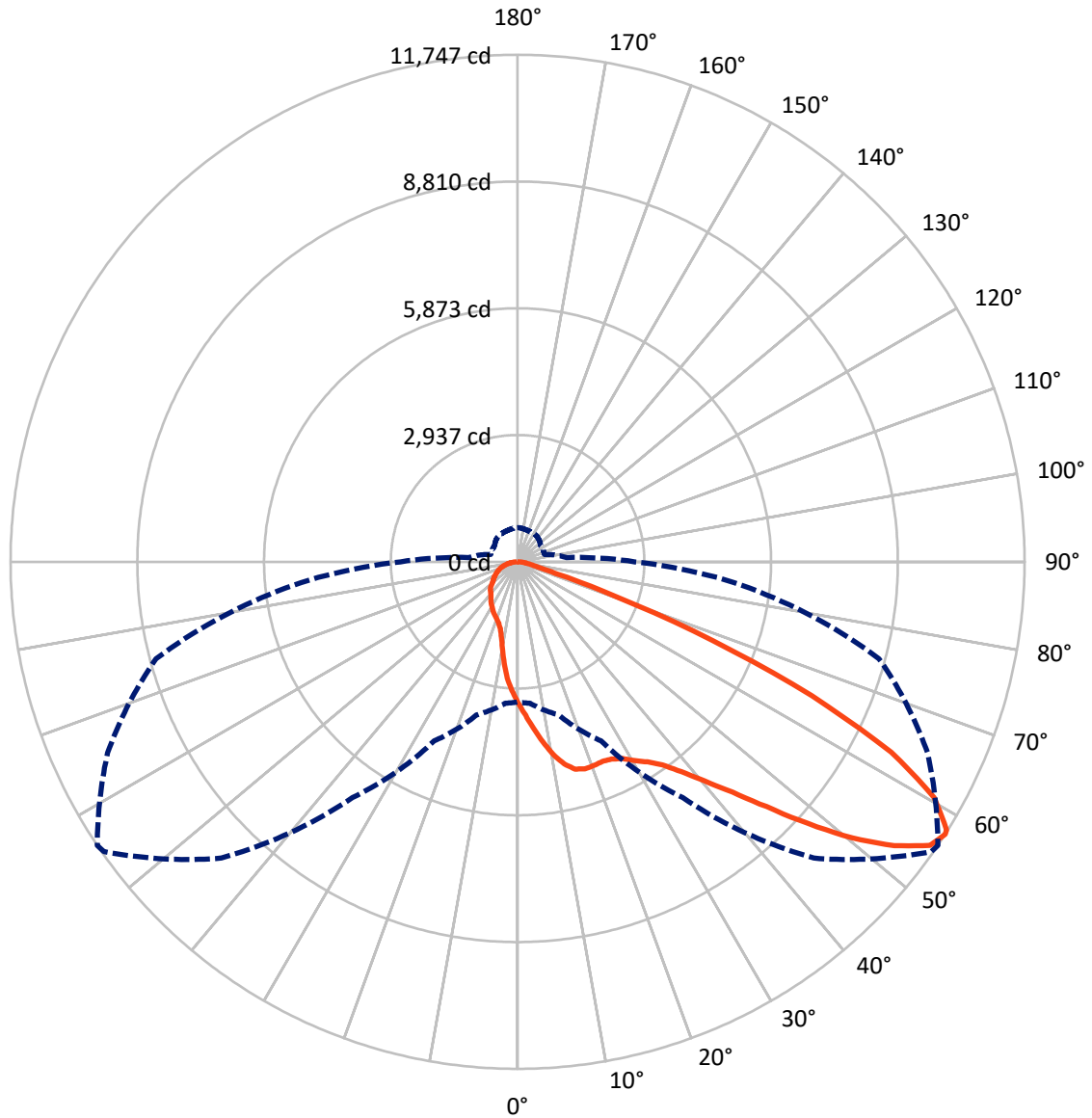
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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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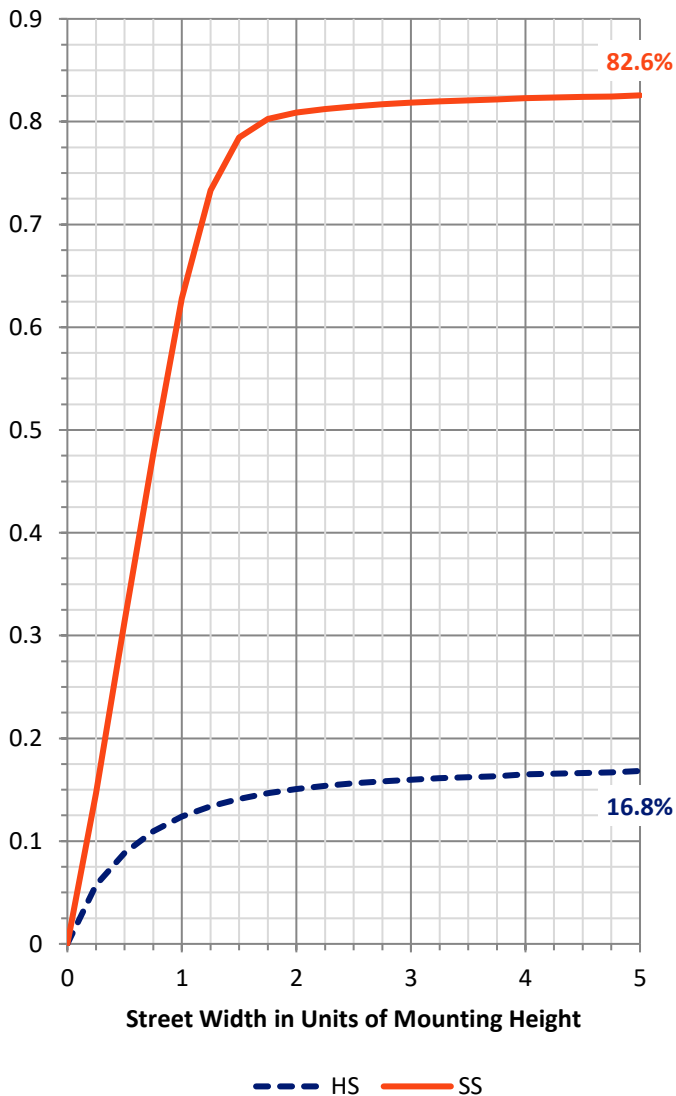
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2556.7	0.0	2556.7
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	12275.3	0.0	12275.3
	% Fixture	82.8	0.0	82.8
Total	Lumens	14832.0	0.0	14832.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.3	2.1
10°-20°	888.5	6.0
20°-30°	1447.1	9.8
30°-40°	2163.3	14.6
40°-50°	3281.3	22.1
50°-60°	3677.8	24.8
60°-70°	2172.2	14.6
70°-80°	711.7	4.8
80°-90°	175.8	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°	14832.0	100.0
0°-180°	14832.0	100.0

Coefficient of Utilization

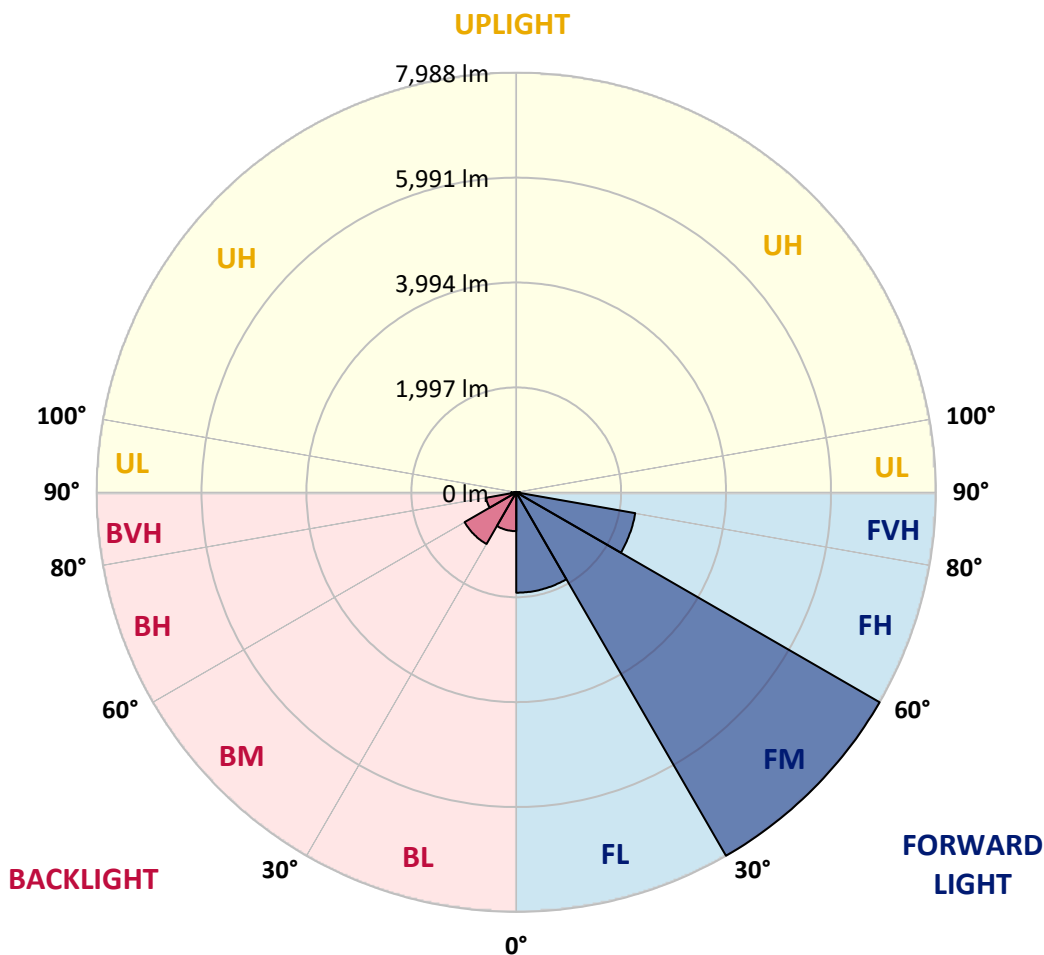


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1910.6	12.9			
FM (30°-60°)	7987.5	53.9			
FH (60°-80°)	2299.8	15.5			G2/5000
FVH (80°-90°)	77.4	0.5			G1/100
BL (0°-30°)	739.3	5.0	B2/1000		
BM (30°-60°)	1134.8	7.7	B2/2500		
BH (60°-80°)	584.2	3.9	B2/1000		G2/1000
BVH (80°-90°)	98.4	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3289.8	3289.8	3289.8	3289.8	3289.8	3289.8	3289.8	3289.8	3289.8	3289.8	3289.8
2.5°	3777.6	3812.2	3796.9	3743.9	3703.1	3645.5	3581.3	3561.9	3494.1	3418.2	3327.0
5°	4375.5	4358.1	4333.2	4250.6	4163.4	4062.0	3900.9	3875.4	3724.5	3552.8	3371.3
7.5°	4716.0	4714.4	4699.6	4651.2	4571.7	4439.2	4245.0	4214.9	3987.1	3710.8	3429.4
10°	4666.5	4662.9	4687.4	4737.9	4761.8	4734.3	4570.7	4540.6	4260.8	3885.6	3496.7
12.5°	4385.7	4387.7	4426.9	4533.0	4677.2	4850.5	4824.0	4809.2	4544.7	4083.4	3578.3
15°	4167.0	4171.6	4202.7	4294.9	4465.2	4779.7	4978.0	4983.1	4819.4	4301.6	3673.6
17.5°	4071.2	4080.8	4095.1	4159.8	4315.8	4638.5	5014.7	5042.2	5060.0	4527.9	3765.3
20°	4101.7	4110.9	4115.0	4156.3	4284.2	4552.8	4989.2	5038.6	5244.5	4740.9	3857.1
22.5°	4238.9	4244.5	4247.0	4257.7	4357.1	4577.3	4972.3	5024.3	5378.1	4932.1	3926.4
25°	4466.2	4462.1	4445.8	4432.0	4498.8	4674.2	5011.1	5060.5	5486.7	5105.4	3971.8
27.5°	4738.4	4733.3	4701.7	4664.0	4702.2	4825.0	5122.7	5162.0	5584.0	5267.5	3994.7
30°	5065.1	5051.9	4992.2	4947.4	4962.2	5051.4	5306.7	5342.4	5734.4	5451.5	4017.1
32.5°	5442.8	5428.5	5342.4	5268.0	5268.0	5342.4	5496.3	5525.9	5861.8	5659.5	4053.3
35°	5915.8	5898.0	5785.9	5661.0	5625.8	5663.5	5754.8	5775.7	6091.2	5921.5	4119.1
37.5°	6473.5	6449.5	6304.3	6137.1	6060.1	6058.1	6123.8	6166.6	6457.7	6265.5	4230.7
40°	7032.6	7015.8	6888.9	6757.4	6606.5	6558.1	6659.5	6672.8	6936.8	6692.7	4373.4
42.5°	7464.9	7461.8	7438.4	7455.7	7301.3	7203.4	7282.9	7293.6	7522.0	7155.0	4525.3
45°	7693.2	7698.3	7812.0	8063.8	8120.9	8049.5	8088.8	8091.8	8190.7	7621.4	4664.5
47.5°	7510.3	7536.8	7824.2	8387.5	8854.9	9091.9	9026.7	9064.4	8839.1	8022.0	4773.6
50°	6797.2	6829.8	7319.1	8243.2	9197.4	10100.7	10066.5	10057.9	9362.1	8315.6	4832.7
52.5°	5913.8	5939.3	6343.0	7493.4	8946.1	10658.3	10971.8	10926.9	9826.9	8535.3	4843.9
55°	4568.6	4608.4	4995.3	5996.9	7929.8	10445.2	11637.5	11597.2	10250.5	8650.5	4830.6
57°	3248.0	3289.8	3674.1	4576.8	6670.7	9707.7	11703.7	11746.6	10479.4	8669.9	4845.4
57.5°	2898.3	2941.1	3321.9	4198.6	6278.3	9441.1	11646.7	11718.0	10520.7	8666.8	4853.6
60°	1459.3	1475.6	1718.3	2343.7	3968.7	7632.6	10902.0	11086.0	10557.9	8517.0	4888.8
62.5°	907.3	895.6	887.9	1079.6	1930.8	5061.5	9365.1	9719.4	9845.8	8154.0	4803.6
65°	797.7	775.8	691.7	676.4	852.8	2458.4	7052.5	7493.4	8324.3	7582.1	4600.8
67.5°	749.3	727.9	633.1	576.0	576.5	974.6	4378.5	4875.0	6484.7	6615.2	4122.1
70°	699.3	680.0	591.3	524.0	490.9	539.8	2014.4	2391.1	4227.1	5199.7	3445.2
72.5°	635.1	621.9	537.8	468.4	433.3	404.2	771.2	910.9	2447.2	3492.1	2392.6
75°	567.8	555.6	483.7	417.5	374.6	318.1	434.3	467.9	1243.2	1786.6	1178.0
77.5°	493.9	486.8	430.2	369.0	334.9	263.5	307.4	323.7	533.2	766.1	590.8
80°	393.0	406.8	376.2	328.8	297.2	211.0	217.7	228.4	310.4	374.1	335.4
82.5°	255.9	279.8	294.6	267.1	244.7	166.2	156.5	161.1	202.4	228.4	145.8
85°	106.5	119.8	193.7	174.8	162.6	121.3	105.0	107.0	125.4	130.0	59.6
87.5°	47.4	50.5	85.1	80.0	68.8	41.8	44.9	48.9	66.8	63.2	22.9
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°	3289.8	3289.8	3289.8	3289.8	3289.8	3289.8	3289.8	3289.8	3289.8	3289.8	3289.8
2.5°	3292.8	3250.0	3176.6	3095.5	3029.3	2976.3	2922.8	2886.1	2843.2	2820.3	2808.6
5°	3295.4	3211.3	3056.8	2898.3	2756.6	2627.1	2503.8	2409.0	2320.3	2272.3	2259.1
7.5°	3306.1	3179.7	2929.9	2668.9	2417.1	2187.2	2009.8	1898.7	1818.7	1783.0	1772.8
10°	3314.7	3142.4	2772.9	2386.5	2044.0	1811.0	1673.4	1611.2	1583.7	1579.1	1574.5
12.5°	3335.1	3104.2	2607.7	2091.9	1754.0	1592.9	1545.0	1540.9	1548.5	1559.8	1559.8
15°	3367.2	3066.5	2419.1	1839.1	1569.4	1512.9	1522.5	1545.0	1565.9	1583.2	1585.7
17.5°	3390.7	3020.1	2216.3	1636.7	1471.1	1486.4	1521.0	1552.6	1574.0	1590.8	1592.4
20°	3407.5	2948.2	1999.6	1482.3	1414.5	1461.9	1505.2	1533.2	1548.0	1564.8	1567.4
22.5°	3398.8	2851.9	1807.5	1371.7	1368.6	1426.2	1467.5	1501.1	1489.9	1473.6	1484.3
25°	3357.0	2719.4	1609.7	1289.1	1320.2	1378.3	1429.3	1406.8	1369.1	1362.0	1366.1
27.5°	3282.6	2550.1	1426.7	1212.6	1264.1	1333.9	1330.9	1308.5	1295.2	1286.0	1291.6
30°	3202.6	2366.6	1266.7	1145.9	1201.9	1259.5	1247.8	1247.3	1234.0	1219.3	1226.4
32.5°	3123.6	2182.1	1139.7	1090.8	1155.0	1162.7	1188.2	1195.8	1169.8	1138.7	1136.7
35°	3054.8	2007.8	1043.4	1040.9	1098.5	1099.5	1136.7	1126.0	1061.2	1029.1	1029.1
37.5°	3003.3	1834.0	970.0	996.0	1024.0	1050.5	1069.4	1025.1	1014.3	996.5	996.0
40°	2980.9	1681.1	924.1	961.8	971.5	1005.2	956.7	974.1	979.2	970.0	970.0
42.5°	2957.4	1548.0	884.4	935.9	934.3	929.7	905.3	927.7	948.1	948.6	947.1
45°	2934.0	1433.3	849.2	880.3	901.7	852.3	856.8	880.8	909.3	919.5	919.5
47.5°	2908.0	1342.6	817.1	821.7	854.8	821.7	818.1	836.5	870.1	886.4	890.0
50°	2850.9	1261.1	780.4	770.2	779.4	790.6	793.6	802.3	839.5	865.5	871.6
52.5°	2771.9	1188.2	733.5	722.8	722.8	765.1	779.4	781.9	813.5	844.6	850.7
55°	2706.1	1141.8	685.1	683.0	681.0	738.1	762.5	766.6	788.5	813.0	816.1
57°	2710.7	1138.2	647.9	649.9	649.4	710.6	746.7	755.4	766.6	787.5	791.1
57.5°	2713.3	1140.8	639.7	640.7	640.2	702.9	742.2	751.8	760.5	782.4	786.0
60°	2751.5	1147.4	606.6	595.4	597.9	662.1	716.2	728.4	734.0	763.1	767.6
62.5°	2694.9	1117.8	580.1	553.0	553.0	619.3	680.0	699.3	708.0	747.3	754.9
65°	2530.8	1034.7	549.0	505.1	510.2	576.5	636.6	668.2	681.5	730.4	738.6
67.5°	2277.4	938.4	515.8	462.3	467.4	531.6	591.8	625.9	646.8	712.1	718.7
70°	1947.7	820.7	471.0	417.0	423.1	482.7	538.8	577.5	608.6	694.8	696.8
72.5°	1435.9	672.8	408.3	367.0	373.6	425.6	485.3	530.1	571.9	651.4	650.4
75°	853.8	526.0	339.0	316.5	321.1	369.5	436.8	491.4	554.1	634.6	644.3
77.5°	517.9	396.1	276.3	265.1	270.7	320.1	402.2	460.3	546.4	598.4	595.4
80°	313.0	282.9	220.7	213.6	219.2	273.7	372.1	436.8	477.6	511.3	511.3
82.5°	163.6	172.8	162.1	156.5	164.1	222.2	338.5	381.3	422.1	362.4	338.5
85°	66.8	90.2	98.4	97.9	102.5	153.9	292.1	326.2	272.2	258.4	264.5
87.5°	22.4	38.2	47.9	41.3	43.3	96.8	202.4	157.5	187.1	130.5	123.9
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)