

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: P317387

Luminaire Tested: **GAN-SA3A-730-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317387
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3A-730-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13498 lumens
Efficiency: N/A
Efficacy: 140.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

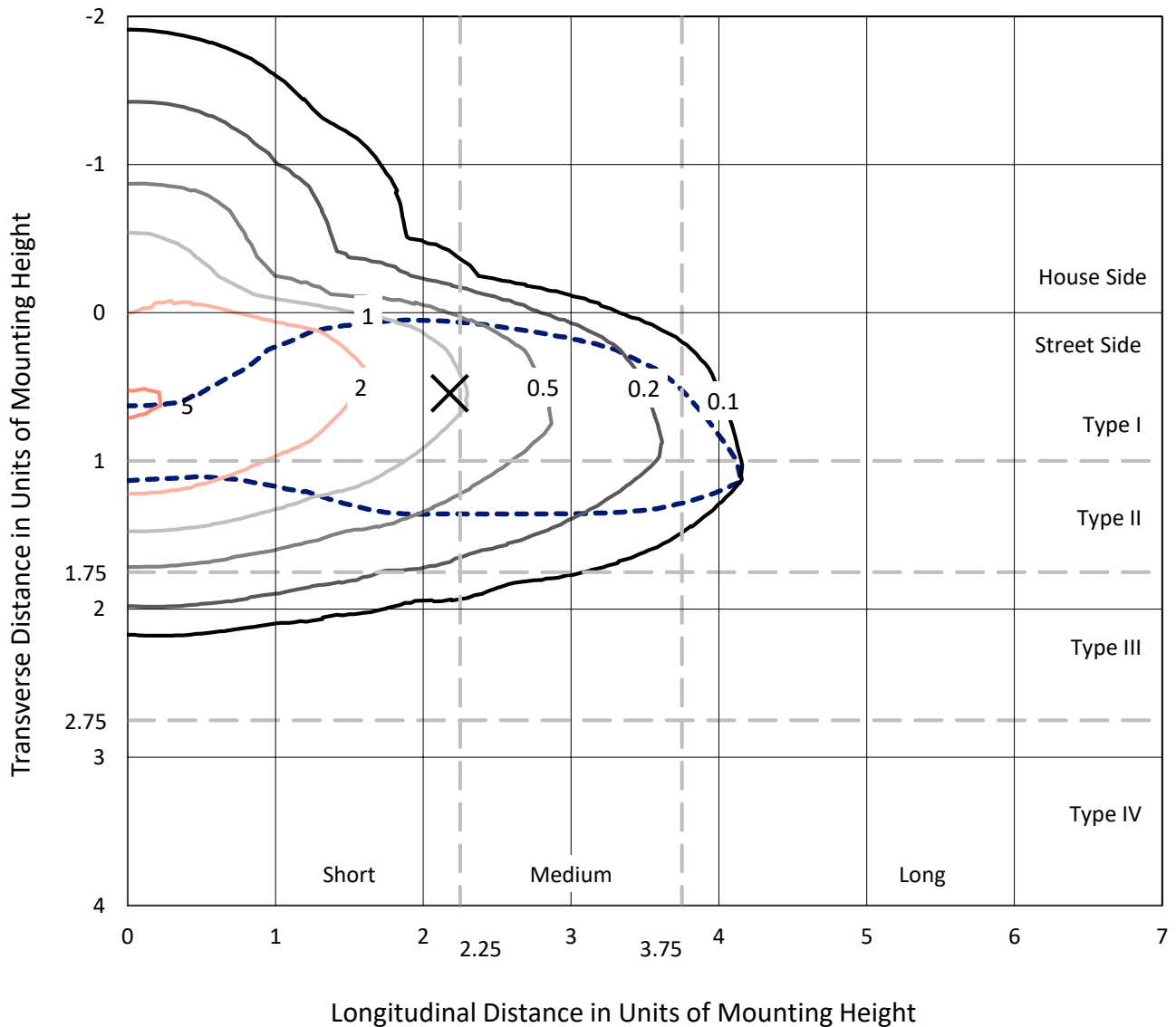
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

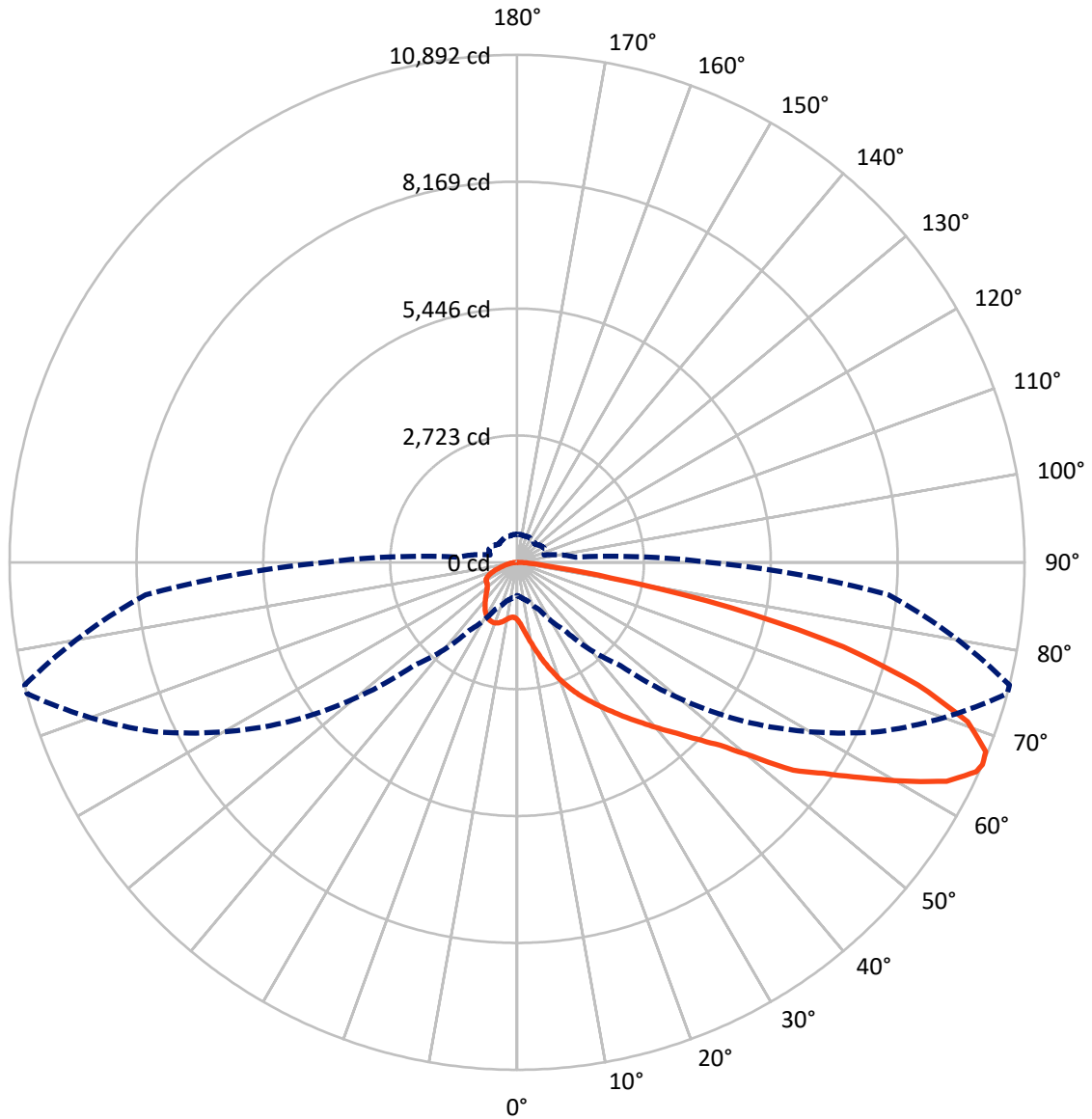
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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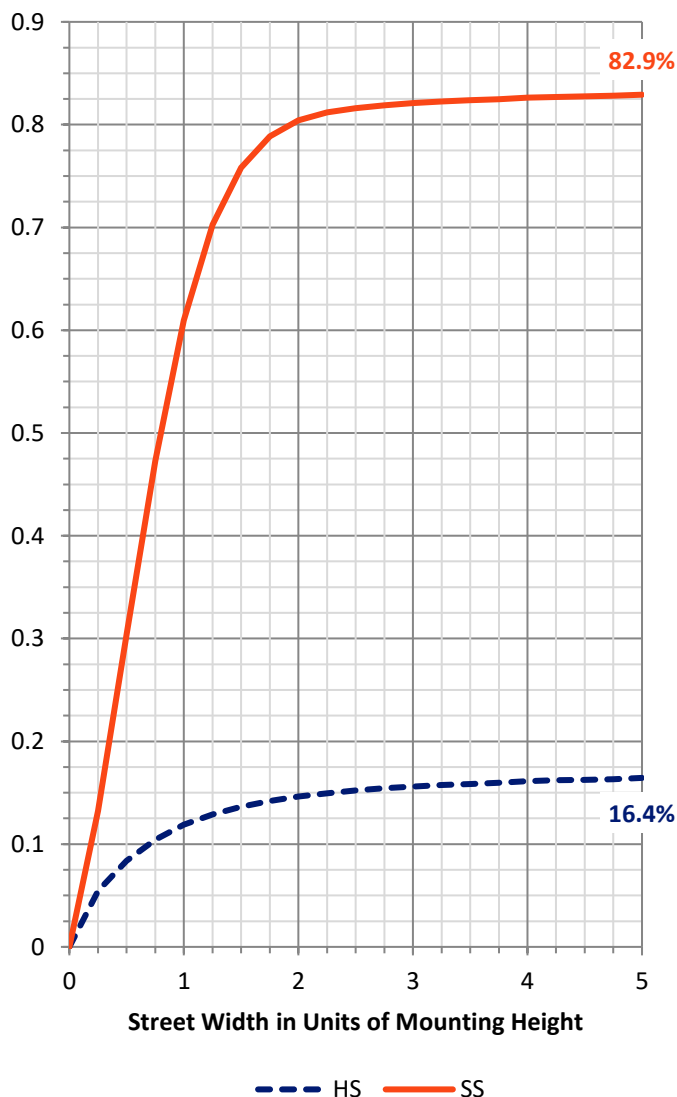
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2271.3	0.0	2271.3
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	11226.8	0.0	11226.8
	% Fixture	83.2	0.0	83.2
Total	Lumens	13498.0	0.0	13498.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.1	1.1
10°-20°	588.6	4.4
20°-30°	1143.9	8.5
30°-40°	1867.1	13.8
40°-50°	2550.9	18.9
50°-60°	2971.2	22.0
60°-70°	2663.8	19.7
70°-80°	1346.2	10.0
80°-90°	217.4	1.6
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°	13498.0	100.0
0°-180°	13498.0	100.0

Coefficient of Utilization

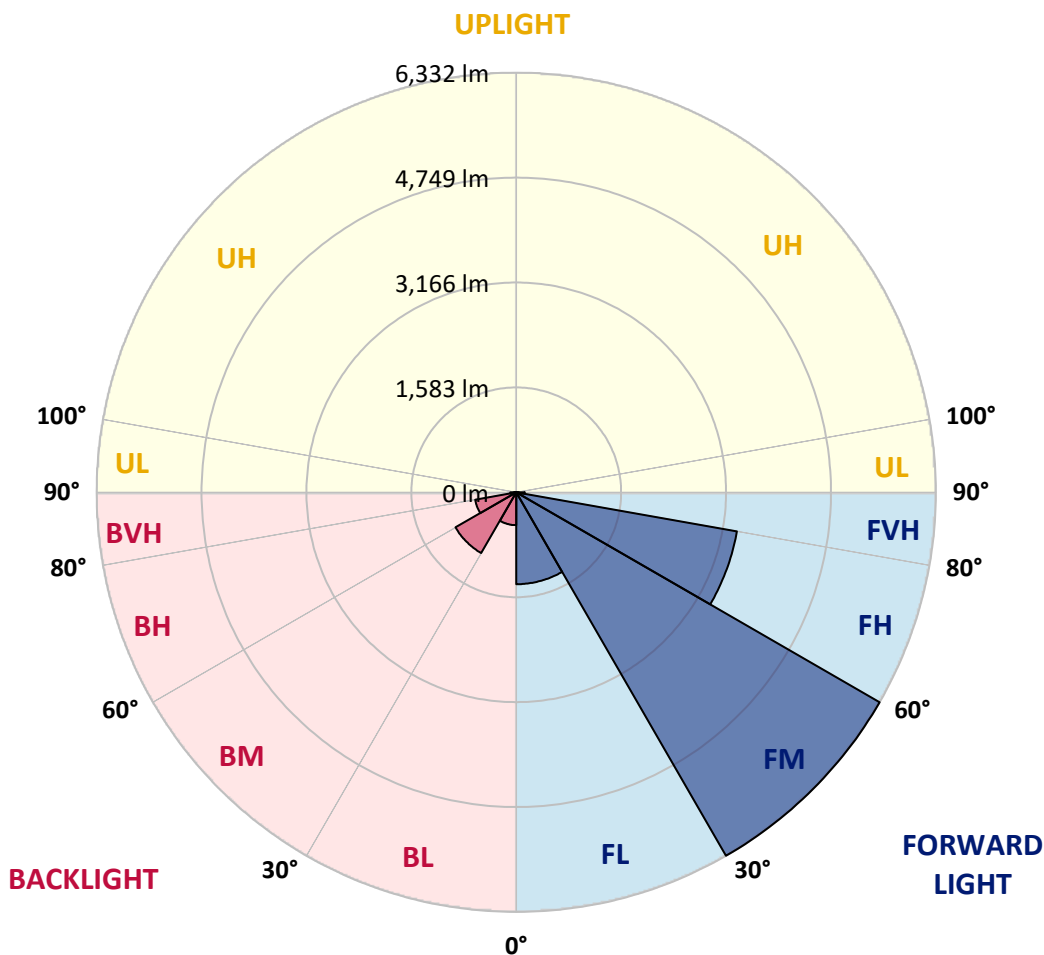


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1386.2	10.3			
FM (30°-60°)	6331.5	46.9			
FH (60°-80°)	3380.7	25.0			G2/5000
FVH (80°-90°)	128.4	1.0			G2/225
BL (0°-30°)	495.4	3.7	B1/500		
BM (30°-60°)	1057.6	7.8	B2/2500		
BH (60°-80°)	629.2	4.7	B2/1000		G2/1000
BVH (80°-90°)	89.0	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°	65°	75°	76°	85°
0°	1232.7	1232.7	1232.7	1232.7	1232.7	1232.7	1232.7	1232.7	1232.7	1232.7	1232.7
2.5°	1636.4	1611.6	1609.3	1573.1	1564.9	1495.7	1444.8	1391.7	1331.2	1319.3	1271.6
5°	2102.0	2099.7	2068.0	2008.9	1962.7	1844.4	1727.6	1603.8	1468.2	1446.2	1339.0
7.5°	2520.8	2517.1	2492.8	2429.1	2362.2	2217.0	2050.2	1860.5	1640.5	1608.0	1430.2
10°	2838.8	2837.4	2829.2	2782.4	2725.6	2586.3	2402.1	2143.2	1840.8	1796.3	1544.3
12.5°	3084.4	3087.2	3092.7	3076.2	3049.1	2930.5	2741.7	2442.9	2054.3	2010.3	1671.2
15°	3250.8	3259.0	3287.4	3310.8	3325.0	3252.1	3069.3	2749.5	2293.5	2240.8	1811.9
17.5°	3334.6	3343.8	3392.8	3463.4	3528.5	3521.1	3375.9	3041.8	2523.1	2472.2	1963.1
20°	3407.0	3413.9	3468.9	3553.7	3668.7	3719.6	3638.0	3323.2	2774.7	2714.2	2123.5
22.5°	3616.9	3625.6	3642.1	3690.2	3792.0	3885.4	3846.0	3589.4	3005.2	2948.8	2275.6
25°	4022.0	4032.5	3996.8	3956.0	3975.3	4040.3	4047.7	3832.3	3238.9	3175.2	2439.2
27.5°	4510.0	4525.1	4464.2	4359.3	4267.6	4242.4	4233.7	4031.2	3462.0	3388.2	2601.0
30°	4988.0	5014.1	4934.8	4798.7	4630.5	4512.3	4424.8	4225.9	3682.0	3611.4	2753.6
32.5°	5454.9	5444.4	5329.4	5196.5	4999.4	4851.4	4639.7	4434.9	3929.4	3848.3	2905.3
35°	5774.8	5778.4	5671.7	5514.0	5326.2	5212.5	4927.5	4660.3	4181.9	4107.2	3077.6
37.5°	6047.0	6030.0	5909.0	5761.9	5600.2	5551.6	5264.3	4908.7	4455.5	4373.9	3260.9
40°	6137.7	6118.0	6038.7	5932.9	5803.2	5799.1	5635.9	5190.1	4764.8	4684.2	3467.5
42.5°	6082.7	6057.5	6025.0	5996.1	5956.2	5974.6	5985.1	5520.0	5104.8	5014.5	3706.7
45°	5879.7	5841.7	5864.6	5927.4	6014.0	6117.5	6300.4	5885.2	5485.6	5410.0	3987.6
47.5°	5567.6	5533.3	5604.8	5739.0	5974.6	6236.7	6598.7	6288.5	5940.2	5865.0	4387.7
50°	5128.6	5138.7	5240.9	5485.2	5841.2	6291.7	6966.2	6822.3	6601.0	6530.9	4933.4
52.5°	4408.3	4410.1	4697.9	5098.9	5604.8	6263.3	7170.1	7504.6	7503.3	7418.5	5453.1
55°	3739.3	3780.0	4007.8	4540.7	5221.7	6149.6	7312.6	7836.4	8095.8	7996.3	5937.4
57.5°	3085.8	3109.6	3325.5	3860.7	4675.0	5846.7	7458.8	8234.6	8778.5	8715.8	6539.6
60°	2342.5	2379.2	2602.4	3096.8	3975.7	5309.2	7472.6	8650.2	9594.7	9531.4	7211.8
62.5°	1520.4	1583.7	1792.6	2255.9	3129.8	4536.1	7153.6	8922.0	10368.2	10345.7	7808.4
65°	873.9	921.5	1066.8	1424.2	2159.2	3565.6	6395.2	8817.5	10844.3	10831.5	8031.6
66°	713.9	743.7	855.1	1113.1	1781.6	3131.2	5954.4	8597.1	10891.5	10892.0	8006.0
67.5°	571.0	584.3	634.2	796.9	1314.7	2481.8	5166.7	8110.9	10832.8	10848.9	7840.5
70°	472.4	479.3	494.9	534.3	717.6	1496.6	3667.3	6847.5	10244.0	10256.4	7194.9
72.5°	423.9	428.0	434.0	439.5	506.4	836.3	2239.9	5477.8	8981.5	8997.6	6211.0
75°	384.0	386.3	385.4	385.8	424.8	532.9	1157.5	4089.8	7262.2	7230.1	4757.9
77.5°	337.3	339.6	335.0	335.9	375.8	409.7	576.0	2863.1	4900.9	4674.5	2680.7
80°	285.0	286.9	285.0	288.2	327.2	309.3	335.0	1610.7	2167.0	2049.7	953.1
82.5°	215.4	223.2	228.7	241.5	269.4	220.0	224.1	627.3	659.9	628.3	292.4
85°	94.4	115.0	172.3	184.7	202.5	132.0	147.1	255.7	268.5	260.3	106.3
87.5°	24.7	27.0	85.2	107.2	112.3	59.6	76.5	116.4	122.8	116.4	35.3
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°	1232.7	1232.7	1232.7	1232.7	1232.7	1232.7	1232.7	1232.7	1232.7	1232.7	1232.7
2.5°	1246.4	1224.0	1183.6	1147.9	1120.9	1102.5	1084.2	1075.0	1069.5	1064.0	1065.0
5°	1286.3	1240.9	1171.7	1122.7	1095.2	1077.8	1068.6	1065.0	1062.7	1057.2	1057.2
7.5°	1346.3	1282.2	1186.8	1136.4	1114.9	1101.6	1096.1	1094.3	1091.5	1085.1	1086.0
10°	1421.9	1332.1	1218.5	1169.4	1149.7	1135.1	1127.3	1124.5	1119.5	1112.2	1113.1
12.5°	1510.8	1394.0	1260.2	1208.8	1185.0	1165.3	1152.5	1144.7	1136.0	1126.4	1126.8
15°	1608.0	1461.3	1305.1	1244.1	1211.6	1184.1	1163.5	1150.2	1136.4	1124.5	1124.1
17.5°	1706.5	1526.4	1339.4	1263.4	1219.4	1183.2	1155.2	1134.6	1117.7	1103.0	1101.6
20°	1812.8	1585.1	1358.7	1261.5	1204.7	1161.6	1124.5	1098.9	1080.1	1065.4	1063.1
22.5°	1921.0	1640.0	1361.9	1242.8	1172.2	1119.5	1080.5	1052.1	1032.9	1017.8	1012.3
25°	2019.9	1682.7	1348.6	1206.6	1126.8	1070.0	1032.0	1003.1	987.5	969.6	964.1
27.5°	2110.2	1712.5	1322.0	1160.3	1076.0	1020.0	984.3	959.6	942.6	928.9	924.3
30°	2191.3	1728.5	1278.5	1105.3	1023.7	972.8	942.6	925.6	911.0	893.6	890.4
32.5°	2268.3	1728.5	1222.6	1045.3	971.9	931.1	913.3	902.7	886.2	869.3	864.7
35°	2345.3	1718.0	1156.6	982.5	924.3	901.4	900.4	888.1	862.9	840.0	834.0
37.5°	2426.4	1696.4	1082.4	923.8	885.3	888.1	895.9	868.4	832.6	800.1	791.4
40°	2518.0	1666.6	1005.4	873.0	852.8	882.1	883.5	840.0	770.3	740.5	732.7
42.5°	2625.7	1636.8	933.9	828.0	827.1	864.2	860.1	778.6	736.9	721.7	717.6
45°	2767.3	1619.9	866.1	785.4	807.0	835.4	820.3	744.6	727.2	718.5	714.9
47.5°	2990.5	1628.6	803.8	751.5	786.8	806.5	746.0	730.9	718.5	708.0	704.3
50°	3270.0	1623.6	753.4	728.1	763.9	776.3	712.6	713.0	706.6	694.7	689.2
52.5°	3480.4	1584.1	720.8	714.9	743.7	722.6	691.5	695.6	692.4	675.0	669.0
55°	3683.4	1550.2	704.3	709.8	729.1	655.7	666.7	676.8	673.6	656.7	653.9
57.5°	3935.8	1543.8	694.2	711.2	716.7	622.3	642.9	656.2	653.9	646.6	645.2
60°	4245.2	1545.7	685.1	713.5	702.9	597.5	620.5	637.4	638.8	637.4	636.5
62.5°	4415.2	1495.7	662.2	707.1	678.7	576.0	597.1	621.8	622.3	625.0	624.6
65°	4270.8	1346.3	619.5	684.6	637.9	558.1	576.9	604.0	597.1	609.5	609.5
66°	4130.6	1260.2	598.5	670.0	620.5	551.3	570.5	594.8	586.1	603.0	603.0
67.5°	3844.2	1114.9	560.4	638.8	595.7	541.6	563.2	579.7	567.8	593.0	591.1
70°	3320.9	862.4	483.9	568.2	554.9	527.4	553.1	549.4	532.0	570.5	563.2
72.5°	2799.9	655.3	388.6	475.7	493.1	509.6	538.9	510.9	488.9	516.0	499.9
75°	2172.5	492.6	307.0	369.8	416.5	481.6	521.9	466.5	434.9	432.1	423.4
77.5°	1174.5	338.2	243.3	282.3	330.9	446.8	510.5	418.8	371.2	360.2	353.3
80°	465.1	220.0	176.9	214.0	231.4	396.4	483.0	363.4	306.1	295.1	284.6
82.5°	192.0	130.1	114.1	143.4	150.8	339.1	433.5	297.9	236.5	327.2	347.3
85°	82.5	71.5	67.8	74.2	85.2	237.8	345.1	227.3	255.2	227.7	181.0
87.5°	24.7	30.2	28.9	28.4	31.2	56.8	183.8	126.5	187.4	71.0	53.2
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)