

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: McGRAW-EDISON

Report Number: P451629

Luminaire Tested: **GALN-SA2C-730-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451629
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2C-730-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12949 lumens
Efficiency: N/A
Efficacy: 119.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

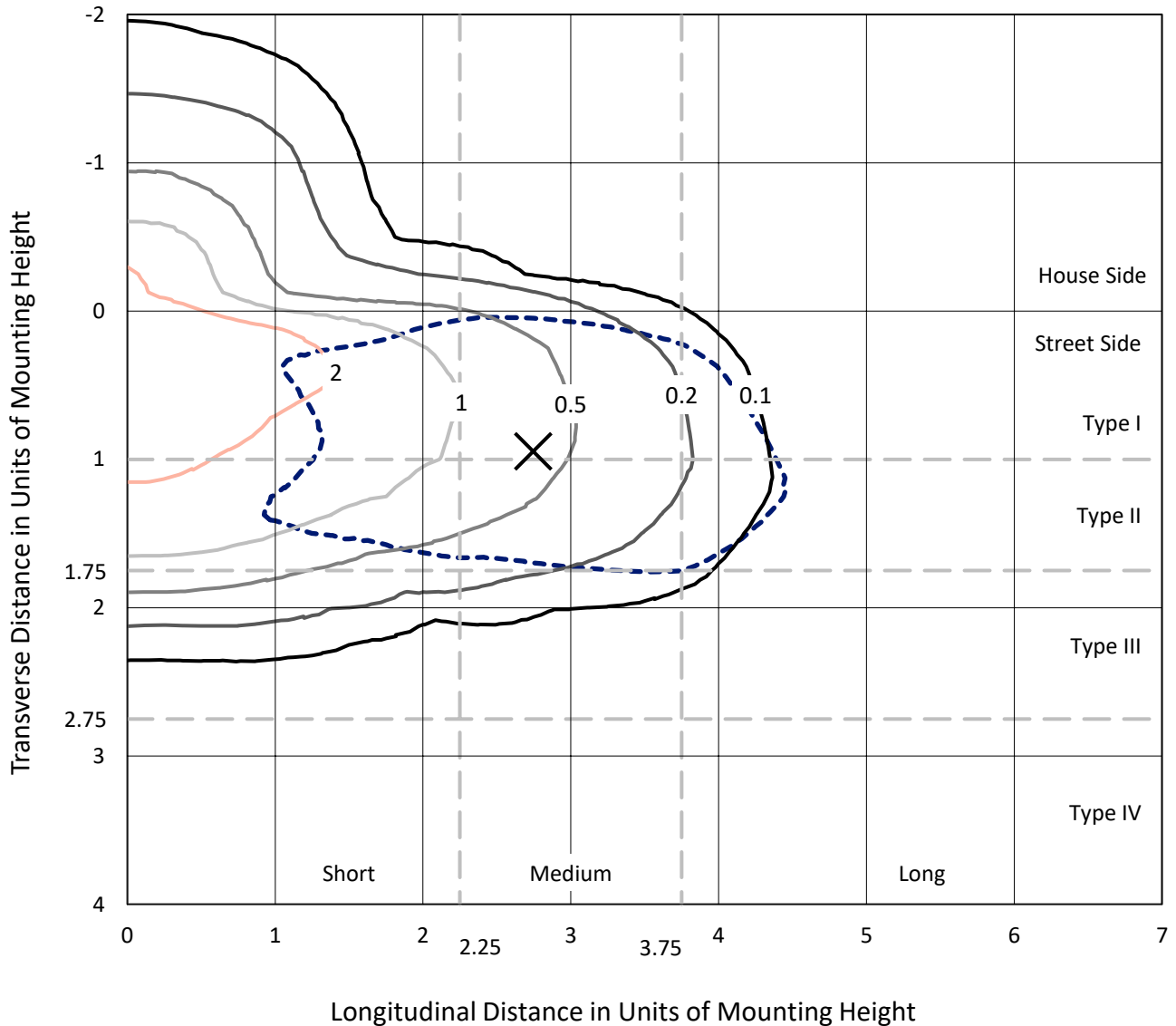
Input Watts (W): 108
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

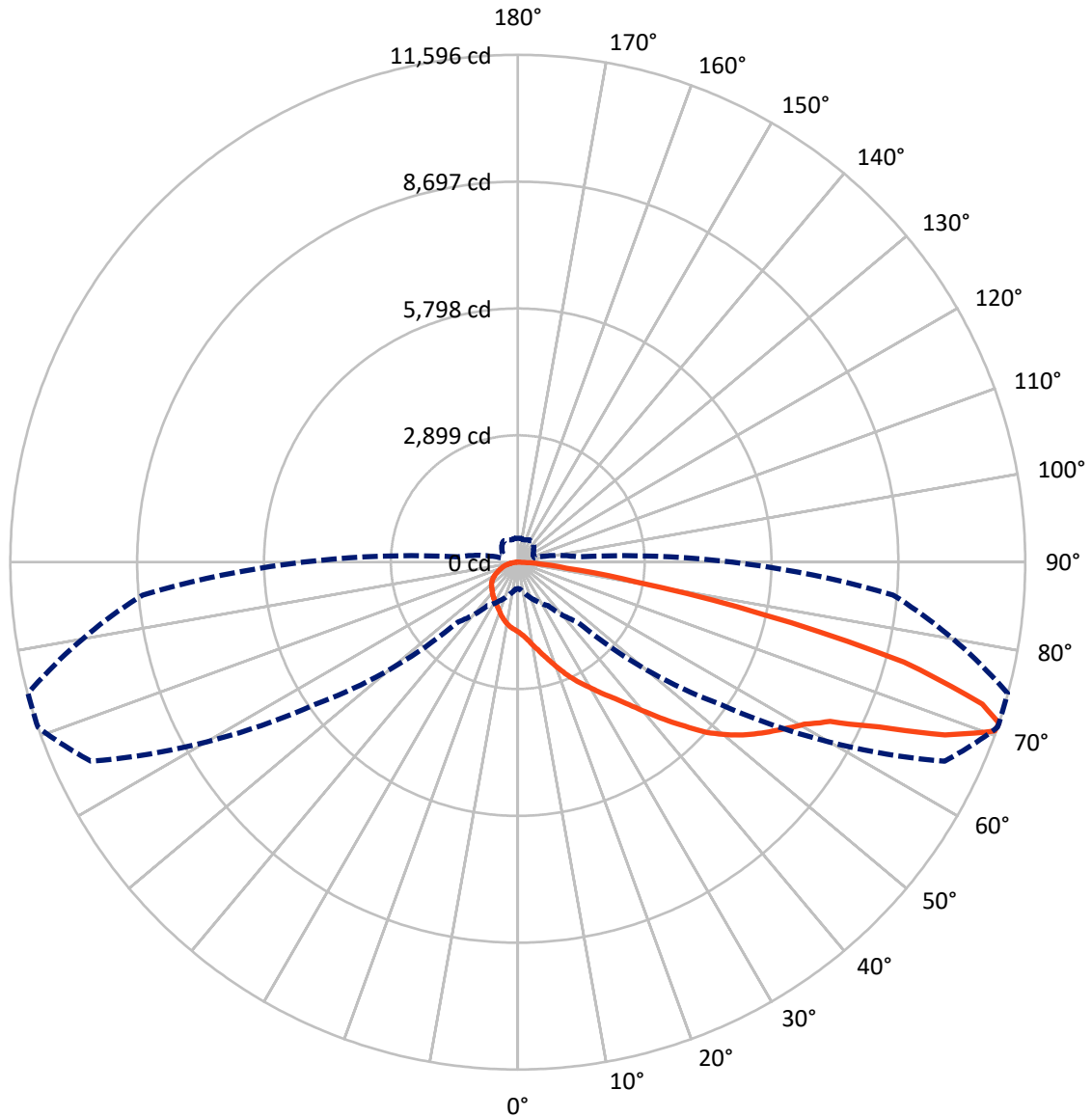
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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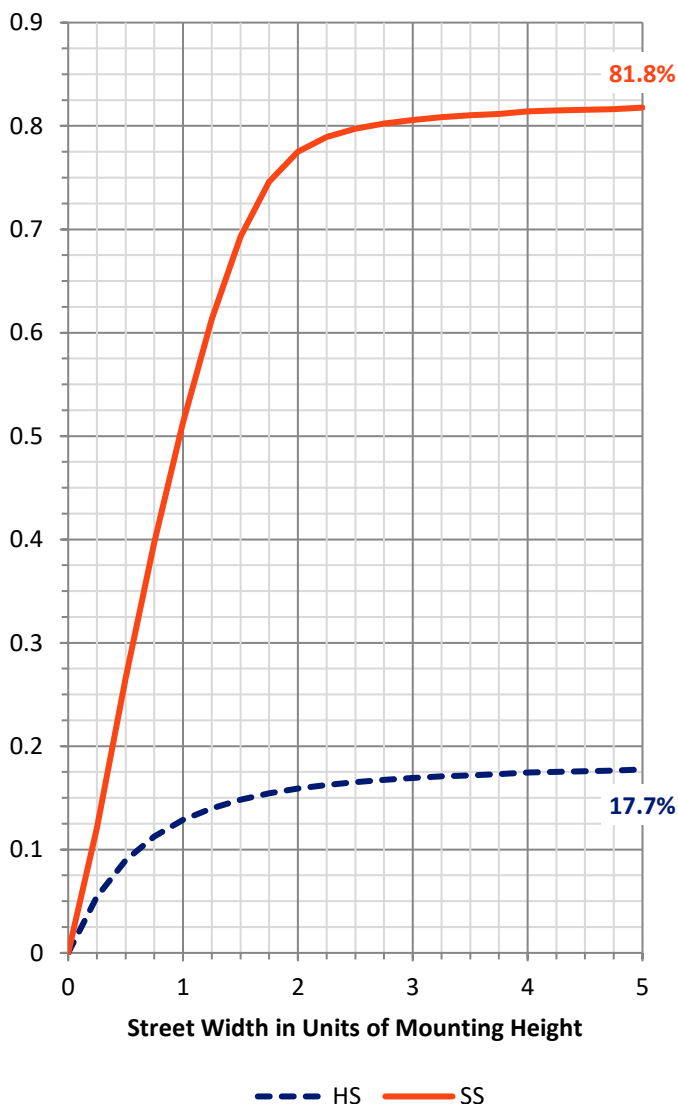
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2328.8	0.0	2328.8
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	10620.1	0.0	10620.1
	% Fixture	82.0	0.0	82.0
Total	Lumens	12949.0	0.0	12949.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.6	1.2
10°-20°	518.4	4.0
20°-30°	906.0	7.0
30°-40°	1347.6	10.4
40°-50°	1985.5	15.3
50°-60°	2779.7	21.5
60°-70°	3109.0	24.0
70°-80°	1899.1	14.7
80°-90°	244.3	1.9
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°	12949.0	100.0
0°-180°	12949.0	100.0

Coefficient of Utilization



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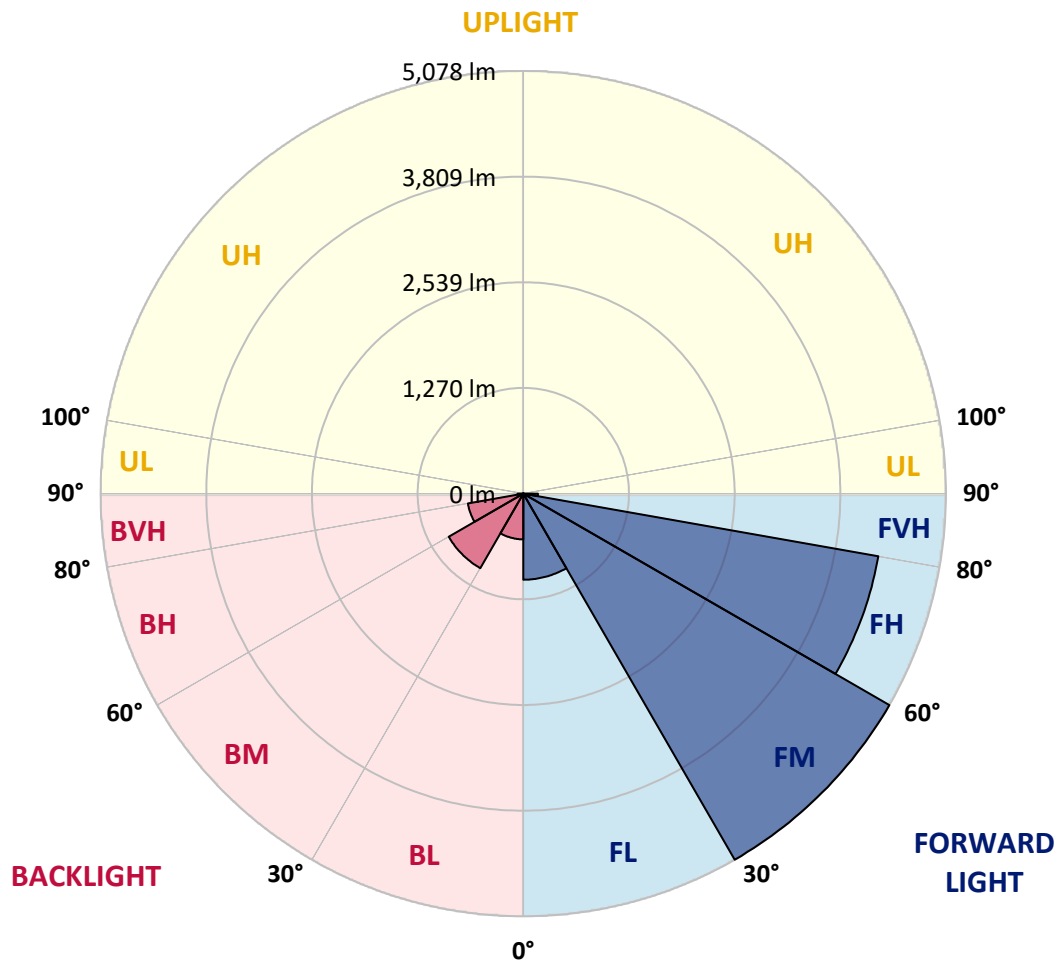
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1034.6	8.0			
FM	(30°-60°)	5078.3	39.2			
FH	(60°-80°)	4331.4	33.4			G2/5000
FVH	(80°-90°)	175.8	1.4			G2/225
BL	(0°-30°)	549.4	4.2	B2/1000		
BM	(30°-60°)	1034.3	8.0	B2/2500		
BH	(60°-80°)	676.6	5.2	B2/1000		G2/1000
BVH	(80°-90°)	68.5	0.5			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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	1589.2	1589.2	1589.2	1589.2	1589.2	1589.2	1589.2	1589.2	1589.2	1589.2	1589.2
2.5°	1764.3	1755.8	1756.5	1744.4	1728.7	1711.6	1687.4	1666.1	1649.0	1639.1	1609.9
5°	1955.1	1946.5	1935.8	1909.5	1898.1	1856.1	1802.7	1754.3	1717.3	1696.7	1638.3
7.5°	2109.5	2107.4	2104.5	2089.6	2060.4	2002.0	1956.5	1872.5	1817.7	1778.5	1678.9
10°	2204.9	2208.4	2210.6	2213.4	2201.3	2170.7	2108.1	2002.0	1932.3	1882.5	1731.6
12.5°	2253.3	2256.8	2268.9	2295.2	2311.6	2308.1	2256.8	2152.9	2056.8	1991.3	1787.8
15°	2283.1	2288.8	2310.2	2345.1	2399.9	2434.7	2409.8	2313.7	2208.4	2130.8	1854.7
17.5°	2315.9	2322.3	2345.8	2395.6	2467.5	2542.9	2570.0	2487.4	2372.8	2280.3	1929.4
20°	2334.4	2342.9	2376.4	2441.9	2525.8	2635.4	2725.1	2681.7	2556.4	2454.0	2015.5
22.5°	2364.3	2371.4	2399.9	2469.6	2570.0	2707.3	2880.3	2871.0	2760.7	2628.3	2110.2
25°	2445.4	2456.8	2471.0	2513.0	2609.8	2780.6	3009.1	3073.1	2958.6	2810.5	2197.0
27.5°	2598.4	2607.7	2607.0	2612.7	2667.5	2844.0	3120.8	3273.1	3155.0	2994.8	2281.0
30°	2772.8	2776.4	2779.2	2766.4	2778.5	2908.7	3223.3	3471.0	3352.8	3184.2	2354.3
32.5°	2984.9	2992.0	2967.8	2935.1	2925.1	3004.8	3308.0	3668.8	3587.0	3376.3	2426.9
35°	3235.4	3253.9	3204.8	3147.2	3106.6	3142.9	3421.9	3871.0	3826.8	3621.9	2523.0
37.5°	3521.5	3544.3	3498.7	3385.6	3327.9	3337.9	3570.6	4120.8	4130.0	3901.6	2666.0
40°	3755.7	3785.6	3787.0	3626.8	3539.3	3550.7	3759.2	4389.8	4495.8	4247.4	2834.7
42.5°	3910.1	3939.3	3969.9	3875.9	3784.1	3848.9	3979.1	4681.6	4907.2	4667.4	3070.3
45°	4079.5	4105.8	4122.9	4080.2	4029.0	4196.9	4244.6	4991.9	5345.6	5136.4	3327.9
47.5°	4275.9	4305.1	4321.5	4280.9	4261.7	4502.2	4530.7	5281.6	5813.9	5591.9	3612.6
50°	4537.8	4559.9	4551.3	4525.7	4521.5	4736.4	4805.4	5552.7	6200.4	6082.2	3908.0
52.5°	4863.8	4890.1	4899.4	4863.1	4846.7	4903.6	5026.8	5799.7	6551.9	6503.5	4223.2
55°	5060.9	5102.9	5243.8	5300.8	5339.9	5120.0	5265.2	6072.3	6867.2	6947.7	4562.0
57.5°	4808.3	4862.4	5177.6	5462.3	5830.3	5660.9	5603.2	6356.9	7182.5	7378.2	4967.7
60°	4191.9	4204.0	4610.4	5134.9	5875.1	6356.2	6308.5	6809.6	7524.1	7812.4	5502.2
62.5°	2908.0	2933.6	3414.0	4251.0	5321.4	6606.7	7508.5	7591.0	8013.8	8462.2	6285.8
65°	1499.6	1466.1	1903.8	2671.7	4011.9	6011.8	8480.7	9028.0	9075.6	9478.5	7388.9
67.5°	923.1	938.0	1143.0	1560.1	2372.1	4369.1	8378.9	10783.7	10532.5	10726.1	8413.0
70°	693.2	711.7	852.6	1067.6	1446.2	2498.1	6738.4	11209.3	11560.2	11510.4	8724.8
71°	602.8	622.0	768.6	971.5	1214.9	1928.0	5677.3	10763.8	11595.8	11587.2	8607.3
72.5°	513.9	525.9	640.5	822.7	1024.1	1351.5	4265.2	9653.5	11101.2	11385.1	8188.2
75°	403.5	412.8	464.0	627.7	806.4	829.8	2288.8	7237.3	9117.6	9658.5	6816.7
77.5°	328.8	335.2	361.5	466.2	622.0	587.9	1200.6	4710.8	5712.1	6256.6	4015.4
80°	261.2	268.3	284.0	316.0	466.2	419.2	572.9	2387.1	2759.3	2753.6	1602.8
82.5°	202.8	205.0	223.5	232.0	318.8	297.5	310.3	1010.6	1119.5	1156.5	578.6
85°	128.1	134.5	197.9	177.9	190.7	174.4	153.0	401.4	494.6	487.5	231.3
87.5°	39.1	41.3	66.9	75.4	84.7	76.2	56.2	118.1	144.5	156.6	57.6
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°	1589.2	1589.2	1589.2	1589.2	1589.2	1589.2	1589.2	1589.2	1589.2	1589.2	1589.2
2.5°	1598.5	1590.7	1562.9	1540.1	1518.8	1495.3	1475.4	1469.7	1464.7	1462.6	1461.8
5°	1613.4	1589.9	1535.1	1490.3	1454.7	1422.0	1401.3	1392.1	1382.8	1382.8	1385.7
7.5°	1634.8	1592.1	1507.4	1440.5	1395.7	1365.0	1350.1	1348.7	1350.8	1352.9	1353.7
10°	1658.3	1590.7	1466.8	1383.6	1343.7	1329.5	1330.2	1342.3	1353.7	1362.2	1363.6
12.5°	1681.0	1582.1	1419.1	1330.2	1304.6	1307.4	1327.3	1354.4	1376.4	1388.5	1389.2
15°	1706.7	1568.6	1361.5	1279.6	1271.1	1293.2	1330.2	1371.5	1404.9	1424.8	1427.0
17.5°	1728.0	1545.8	1301.0	1230.5	1241.2	1281.8	1333.0	1386.4	1427.0	1451.9	1456.1
20°	1752.2	1516.6	1238.4	1183.6	1214.2	1269.0	1327.3	1385.0	1427.0	1451.2	1456.9
22.5°	1771.4	1475.4	1178.6	1145.1	1190.0	1253.3	1308.1	1354.4	1388.5	1401.3	1409.9
25°	1779.3	1423.4	1122.4	1113.8	1170.8	1227.7	1264.7	1291.0	1301.7	1300.3	1303.8
27.5°	1775.0	1363.6	1074.0	1088.9	1146.6	1187.8	1206.3	1204.2	1185.0	1167.2	1175.7
30°	1757.2	1292.5	1033.4	1063.3	1115.2	1138.0	1135.2	1107.4	1071.1	1037.7	1039.8
32.5°	1725.2	1215.6	995.7	1034.1	1071.1	1081.1	1061.9	1025.6	973.6	930.2	923.8
35°	1698.1	1142.3	962.2	1000.7	1027.0	1022.0	1003.5	956.5	909.6	871.1	864.7
37.5°	1693.9	1079.7	930.2	962.9	977.9	970.8	948.0	908.1	891.1	861.9	858.3
40°	1716.6	1035.5	897.5	923.1	930.2	924.5	899.6	876.8	892.5	885.4	885.4
42.5°	1778.5	1012.0	868.3	883.2	888.9	893.2	875.4	856.2	875.4	842.7	832.0
45°	1876.8	1012.8	841.9	844.1	861.2	876.1	864.0	835.5	825.6	760.1	747.3
47.5°	2021.2	1037.0	820.6	807.1	837.7	862.6	845.5	804.2	760.1	716.7	708.9
50°	2189.9	1080.4	801.4	768.6	806.4	845.5	832.7	784.3	738.7	712.4	707.4
52.5°	2377.1	1135.2	777.9	725.9	767.9	837.7	835.5	781.5	718.8	701.0	696.8
55°	2608.4	1189.3	748.7	676.1	733.8	831.3	827.7	758.0	714.6	701.7	700.3
57.5°	2877.4	1267.5	706.7	625.6	694.6	804.9	797.1	743.7	700.3	691.1	690.4
60°	3310.8	1389.2	646.9	579.3	654.8	758.7	768.6	719.5	677.5	675.4	674.7
62.5°	3880.9	1560.1	585.0	531.6	608.5	698.9	727.4	686.8	653.3	664.0	665.4
65°	4668.1	1703.8	521.0	491.1	557.3	641.2	688.2	656.2	626.3	646.9	646.9
67.5°	5181.2	1706.7	462.6	449.1	505.3	592.8	646.9	619.9	591.4	626.3	627.7
70°	5074.4	1495.3	414.2	405.0	454.8	540.9	601.4	580.0	547.3	578.6	567.2
71°	4902.2	1377.9	395.0	387.9	434.9	516.0	580.0	562.2	529.5	550.1	543.7
72.5°	4627.5	1196.4	363.7	365.1	405.0	484.7	550.1	531.6	498.9	510.3	508.2
75°	3911.5	1044.8	311.0	317.4	348.0	431.3	490.4	476.1	442.7	442.7	440.5
77.5°	2445.4	730.2	258.3	261.9	295.4	369.4	421.3	409.2	377.2	366.5	363.7
80°	912.4	377.2	202.1	206.4	227.0	291.1	348.7	337.3	304.6	292.5	281.1
82.5°	345.2	189.3	148.7	145.2	167.3	222.1	273.3	259.8	234.2	205.0	196.4
85°	130.2	93.9	91.1	88.3	98.2	131.7	169.4	166.5	139.5	118.9	116.7
87.5°	34.2	30.6	35.6	26.3	27.8	24.9	25.6	10.7	5.0	2.1	1.4
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)