

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: P651805

Luminaire Tested: **GALN-SA3A-840-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651805  
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-SA3A-840-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11546.9 lumens  
Efficiency: N/A  
Efficacy: 124.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2

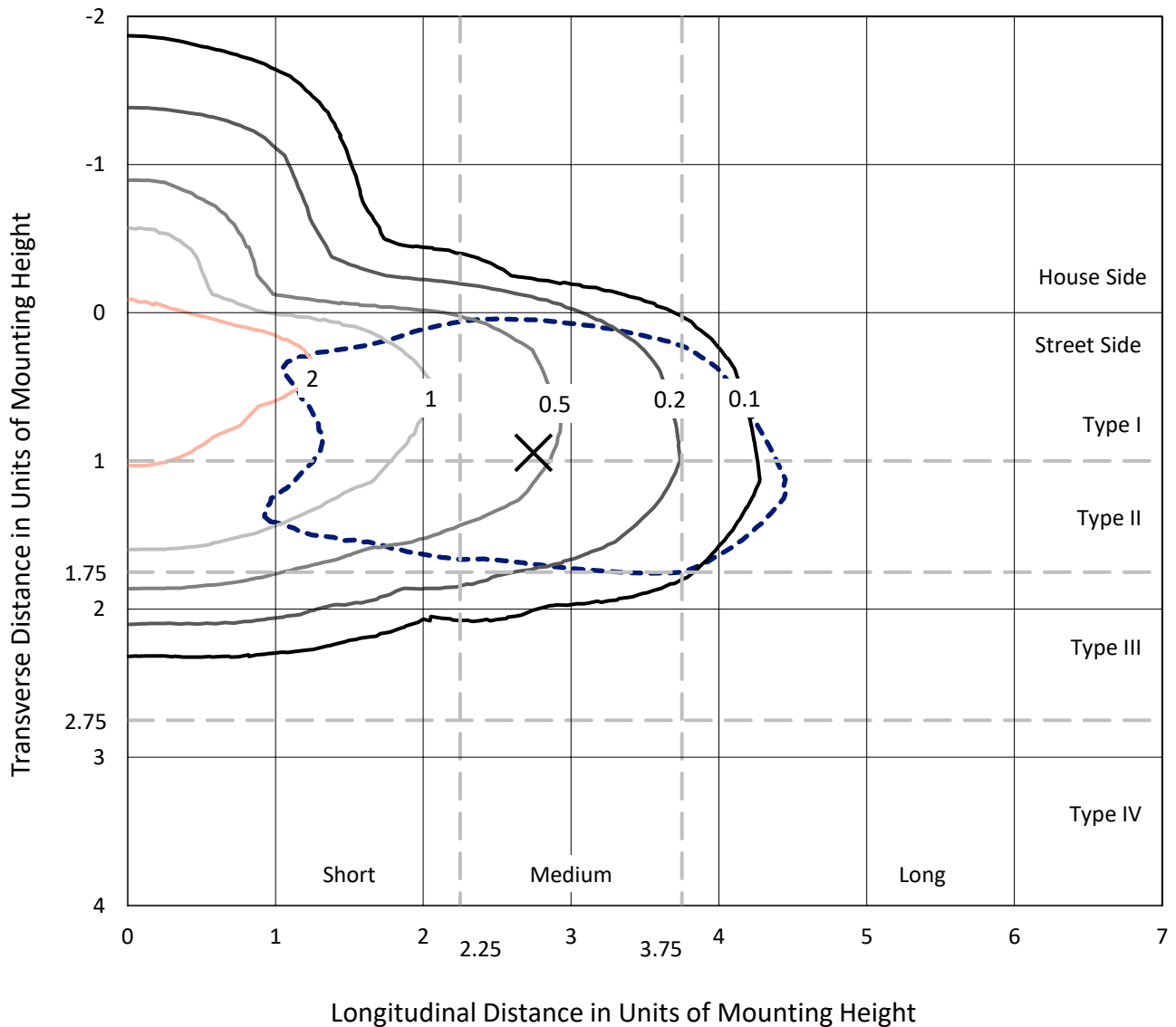
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

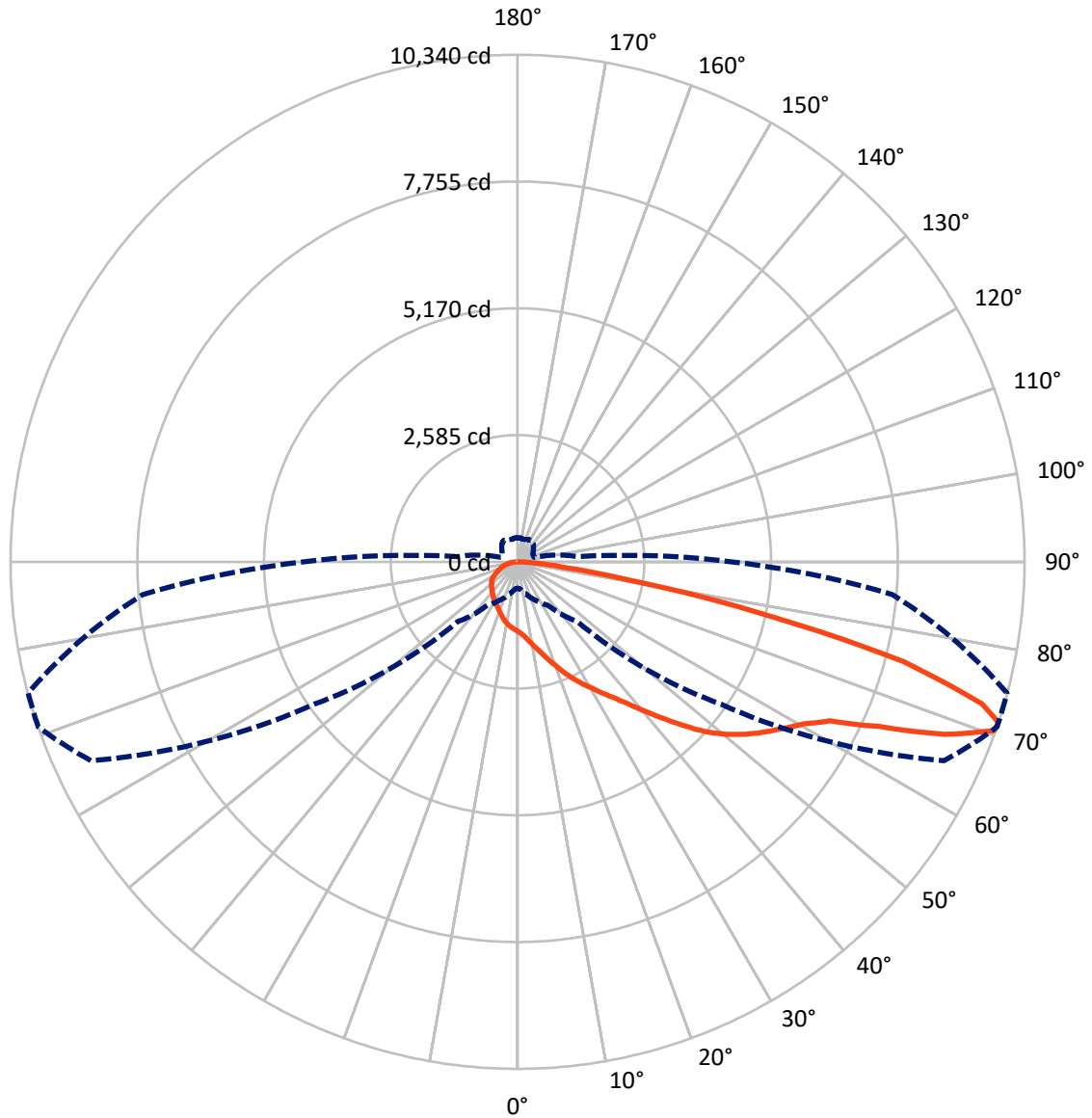
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 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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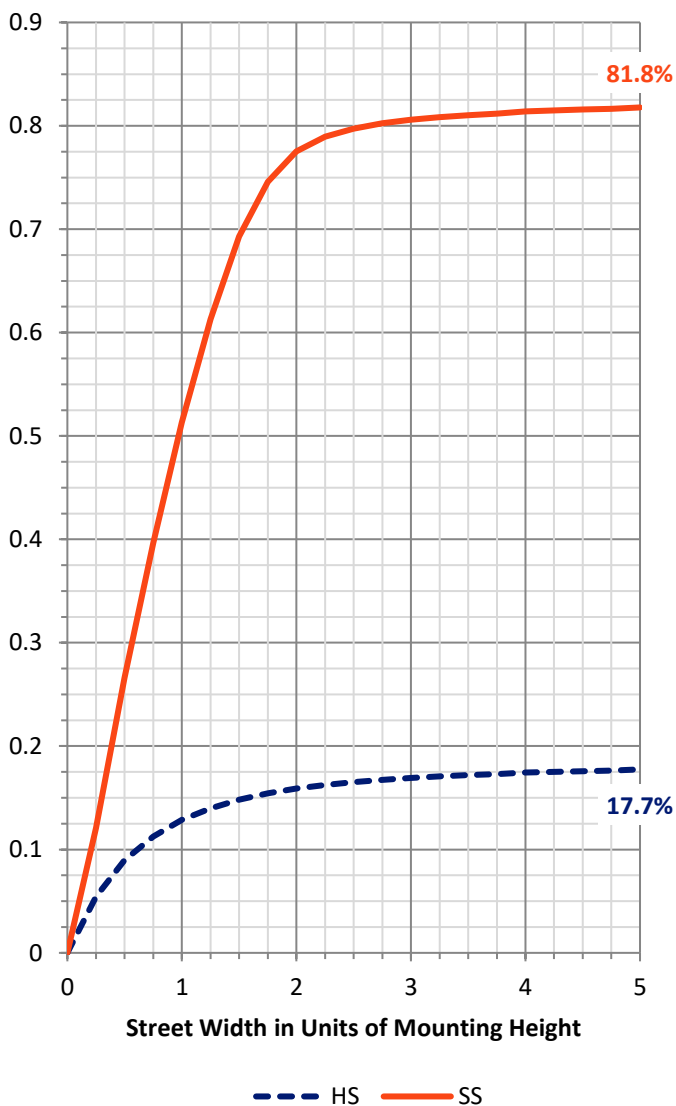
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2076.7	0.0	2076.7
	% Fixture	18.0	0.0	18.0
<b>Street Side</b>	Lumens	9470.2	0.0	9470.2
	% Fixture	82.0	0.0	82.0
<b>Total</b>	Lumens	11546.9	0.0	11546.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	142.3	1.2
10°-20°	462.3	4.0
20°-30°	807.9	7.0
30°-40°	1201.6	10.4
40°-50°	1770.5	15.3
50°-60°	2478.7	21.5
60°-70°	2772.3	24.0
70°-80°	1693.5	14.7
80°-90°	217.8	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°	11546.9	100.0
0°-180°	11546.9	100.0

**Coefficient of Utilization**

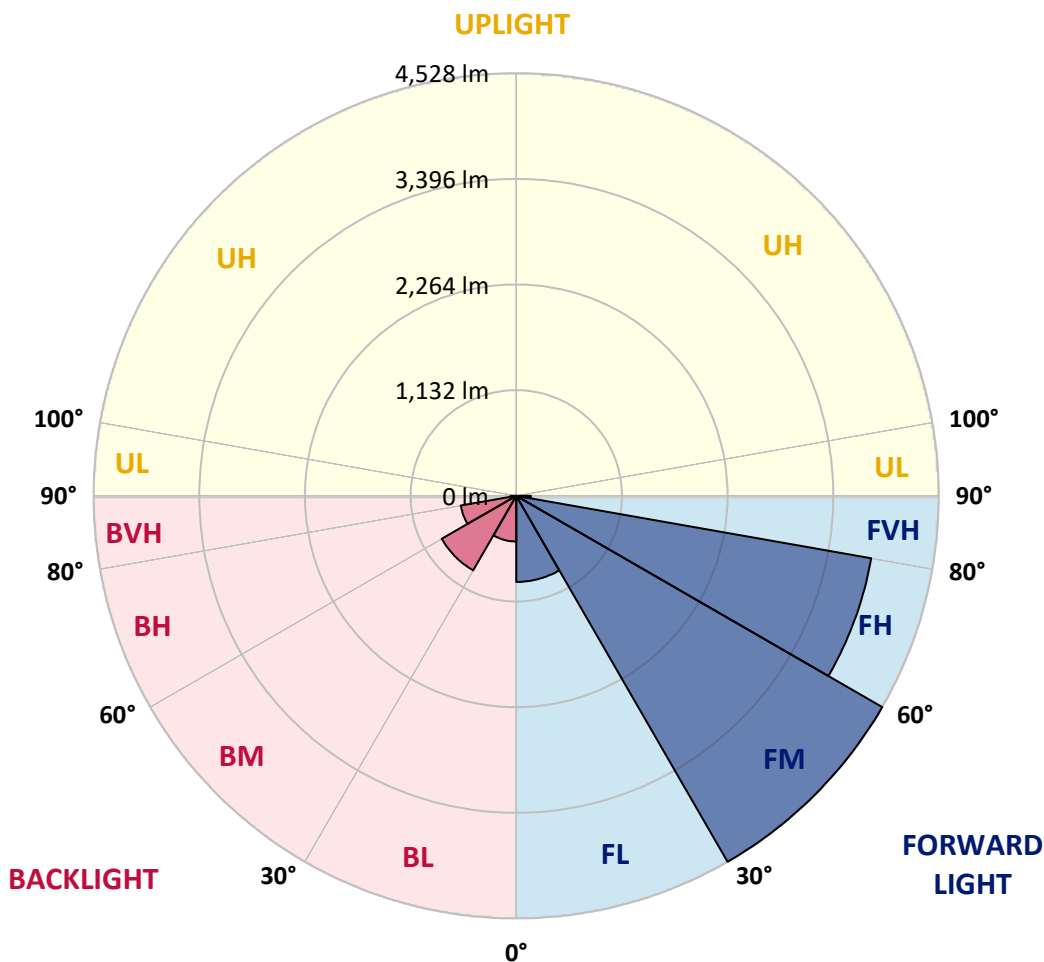


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	922.6	8.0			
FM (30°-60°)	4528.5	39.2			
FH (60°-80°)	3862.4	33.4			G2/5000
FVH (80°-90°)	156.7	1.4			G2/225
BL (0°-30°)	489.9	4.2	B1/500		
BM (30°-60°)	922.3	8.0	B1/1000		
BH (60°-80°)	603.4	5.2	B2/1000		G2/1000
BVH (80°-90°)	61.1	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°	1417.2	1417.2	1417.2	1417.2	1417.2	1417.2	1417.2	1417.2	1417.2	1417.2	1417.2
2.5°	1573.3	1565.7	1566.3	1555.5	1541.6	1526.3	1504.7	1485.7	1470.5	1461.6	1435.6
5°	1743.4	1735.7	1726.2	1702.8	1692.6	1655.2	1607.6	1564.4	1531.4	1513.0	1461.0
7.5°	1881.1	1879.2	1876.6	1863.3	1837.3	1785.3	1744.7	1669.7	1620.9	1586.0	1497.1
10°	1966.1	1969.3	1971.2	1973.7	1963.0	1935.6	1879.8	1785.3	1723.0	1678.6	1544.1
12.5°	2009.3	2012.4	2023.3	2046.7	2061.3	2058.2	2012.4	1919.8	1834.1	1775.8	1594.2
15°	2035.9	2041.0	2060.0	2091.1	2140.0	2171.1	2148.9	2063.2	1969.3	1900.2	1653.9
17.5°	2065.2	2070.9	2091.8	2136.2	2200.3	2267.6	2291.7	2218.1	2115.9	2033.4	1720.5
20°	2081.6	2089.2	2119.1	2177.4	2252.4	2350.1	2430.1	2391.3	2279.6	2188.3	1797.3
22.5°	2108.3	2114.6	2140.0	2202.2	2291.7	2414.2	2568.4	2560.2	2461.8	2343.7	1881.7
25°	2180.6	2190.8	2203.5	2240.9	2327.2	2479.5	2683.3	2740.4	2638.2	2506.2	1959.1
27.5°	2317.1	2325.4	2324.7	2329.7	2378.6	2536.0	2782.9	2918.7	2813.4	2670.6	2034.0
30°	2472.5	2475.7	2478.3	2466.8	2477.7	2593.8	2874.3	3095.1	2989.8	2839.4	2099.4
32.5°	2661.7	2668.1	2646.5	2617.3	2608.4	2679.4	2949.8	3271.6	3198.6	3010.8	2164.1
35°	2885.1	2901.6	2857.8	2806.4	2770.3	2802.5	3051.4	3451.8	3412.4	3229.7	2249.8
37.5°	3140.2	3160.6	3119.9	3019.0	2967.6	2976.5	3184.0	3674.6	3682.8	3479.1	2377.3
40°	3349.0	3375.7	3377.0	3234.1	3156.1	3166.2	3352.2	3914.5	4009.0	3787.5	2527.8
42.5°	3486.7	3512.8	3540.0	3456.3	3374.4	3432.1	3548.3	4174.6	4375.9	4162.0	2737.9
45°	3637.7	3661.3	3676.5	3638.4	3592.8	3742.4	3785.0	4451.4	4766.8	4580.3	2967.6
47.5°	3812.9	3839.0	3853.5	3817.4	3800.2	4014.8	4040.2	4709.7	5184.4	4986.4	3221.5
50°	4046.5	4066.2	4058.6	4035.7	4031.9	4223.6	4285.1	4951.5	5529.0	5423.7	3484.9
52.5°	4337.1	4360.7	4368.9	4336.5	4321.9	4372.7	4482.4	5171.7	5842.5	5799.4	3766.0
55°	4513.0	4550.4	4676.0	4726.8	4761.7	4565.6	4695.1	5414.8	6123.7	6195.4	4068.1
57.5°	4287.7	4335.9	4617.0	4870.9	5199.0	5047.9	4996.5	5668.6	6404.8	6579.3	4429.8
60°	3738.1	3748.8	4111.2	4578.9	5239.0	5668.0	5625.4	6072.3	6709.4	6966.5	4906.4
62.5°	2593.1	2616.0	3044.4	3790.7	4745.3	5891.4	6695.5	6769.1	7146.1	7545.9	5605.2
65°	1337.2	1307.3	1697.6	2382.5	3577.4	5360.9	7562.4	8050.5	8092.9	8452.1	6588.9
67.5°	823.2	836.5	1019.2	1391.1	2115.3	3896.1	7471.6	9616.1	9392.1	9564.7	7502.1
70°	618.1	634.6	760.3	951.9	1289.6	2227.6	6008.8	9995.6	10308.5	10264.1	7780.1
71°	537.6	554.6	685.4	866.3	1083.4	1719.3	5062.6	9598.3	10340.3	10332.6	7675.4
72.5°	458.2	469.0	571.2	733.7	913.2	1205.2	3803.4	8608.3	9899.2	10152.4	7301.6
75°	359.9	368.1	413.8	559.8	719.1	740.0	2041.0	6453.7	8130.5	8612.8	6078.6
77.5°	293.2	298.9	322.4	415.7	554.6	524.2	1070.7	4200.7	5093.7	5579.1	3580.6
80°	232.9	239.3	253.2	281.8	415.7	373.8	510.9	2128.6	2460.5	2455.5	1429.2
82.5°	180.9	182.7	199.3	206.9	284.3	265.3	276.7	901.2	998.3	1031.3	516.0
85°	114.2	119.9	176.4	158.7	170.1	155.5	136.4	357.9	441.1	434.7	206.3
87.5°	34.9	36.8	59.6	67.3	75.5	67.9	50.1	105.4	128.8	139.6	51.4
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°	1417.2	1417.2	1417.2	1417.2	1417.2	1417.2	1417.2	1417.2	1417.2	1417.2	1417.2
2.5°	1425.4	1418.4	1393.7	1373.4	1354.3	1333.4	1315.6	1310.5	1306.1	1304.2	1303.6
5°	1438.7	1417.8	1368.9	1328.9	1297.2	1268.0	1249.6	1241.4	1233.1	1233.1	1235.7
7.5°	1457.8	1419.7	1344.2	1284.5	1244.5	1217.3	1203.9	1202.6	1204.6	1206.4	1207.1
10°	1478.7	1418.4	1308.0	1233.7	1198.2	1185.5	1186.1	1196.9	1207.1	1214.7	1216.0
12.5°	1499.0	1410.8	1265.5	1186.1	1163.3	1165.9	1183.6	1207.8	1227.4	1238.2	1238.8
15°	1521.9	1398.8	1214.1	1141.1	1133.5	1153.2	1186.1	1223.0	1252.8	1270.6	1272.4
17.5°	1540.9	1378.5	1160.2	1097.3	1106.8	1143.0	1188.7	1236.3	1272.4	1294.6	1298.5
20°	1562.5	1352.4	1104.3	1055.4	1082.7	1131.6	1183.6	1235.0	1272.4	1294.0	1299.1
22.5°	1579.7	1315.6	1051.0	1021.1	1061.1	1117.6	1166.5	1207.8	1238.2	1249.6	1257.2
25°	1586.6	1269.3	1000.9	993.2	1044.0	1094.7	1127.8	1151.2	1160.7	1159.5	1162.7
27.5°	1582.8	1216.0	957.6	971.0	1022.4	1059.2	1075.7	1073.8	1056.7	1040.8	1048.4
30°	1567.0	1152.5	921.5	948.1	994.5	1014.8	1012.2	987.5	955.1	925.3	927.2
32.5°	1538.4	1084.0	887.8	922.2	955.1	964.0	946.9	914.5	868.2	829.5	823.8
35°	1514.2	1018.6	858.1	892.3	915.8	911.3	894.8	852.9	811.1	776.8	771.1
37.5°	1510.4	962.8	829.5	858.7	872.0	865.6	845.4	809.8	794.6	768.6	765.4
40°	1530.8	923.4	800.3	823.2	829.5	824.4	802.2	781.9	795.8	789.5	789.5
42.5°	1586.0	902.5	774.2	787.6	792.6	796.5	780.6	763.5	780.6	751.4	741.9
45°	1673.6	903.1	750.8	752.7	767.9	781.2	770.4	745.0	736.2	677.8	666.4
47.5°	1802.3	924.7	731.8	719.6	747.0	769.2	754.0	717.1	677.8	639.1	632.1
50°	1952.8	963.4	714.6	685.4	719.1	754.0	742.5	699.4	658.8	635.3	630.8
52.5°	2119.7	1012.2	693.7	647.3	684.7	747.0	745.0	696.9	641.0	625.1	621.3
55°	2326.0	1060.5	667.7	602.9	654.3	741.3	738.1	675.9	637.1	625.8	624.5
57.5°	2565.9	1130.3	630.2	557.8	619.4	717.8	710.8	663.2	624.5	616.2	615.6
60°	2952.3	1238.8	576.9	516.6	583.9	676.5	685.4	641.6	604.2	602.2	601.7
62.5°	3460.7	1391.1	521.7	474.1	542.6	623.2	648.6	612.4	582.6	592.1	593.4
65°	4162.6	1519.4	464.6	437.9	496.9	571.8	613.7	585.2	558.5	576.9	576.9
67.5°	4620.2	1521.9	412.5	400.5	450.6	528.7	576.9	552.8	527.4	558.5	559.8
70°	4525.0	1333.4	369.4	361.1	405.5	482.3	536.3	517.2	488.0	516.0	505.8
71°	4371.4	1228.7	352.2	345.9	387.8	460.1	517.2	501.4	472.1	490.6	484.8
72.5°	4126.5	1066.8	324.3	325.6	361.1	432.2	490.6	474.1	444.9	455.1	453.1
75°	3488.0	931.7	277.4	283.1	310.3	384.6	437.2	424.5	394.8	394.8	392.8
77.5°	2180.6	651.1	230.3	233.5	263.4	329.4	375.7	364.9	336.4	326.8	324.3
80°	813.6	336.4	180.2	184.0	202.4	259.5	311.0	300.8	271.6	260.9	250.7
82.5°	307.8	168.8	132.6	129.4	149.1	198.0	243.7	231.6	208.8	182.7	175.2
85°	116.1	83.8	81.2	78.7	87.5	117.4	151.0	148.5	124.4	106.0	104.1
87.5°	30.4	27.2	31.7	23.5	24.7	22.2	22.9	9.5	4.5	1.9	1.3
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)