

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: P458707

Luminaire Tested: **GALN-SA2C-735-U-T2R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458707  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2C-735-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13422 lumens  
Efficiency: N/A  
Efficacy: 124.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

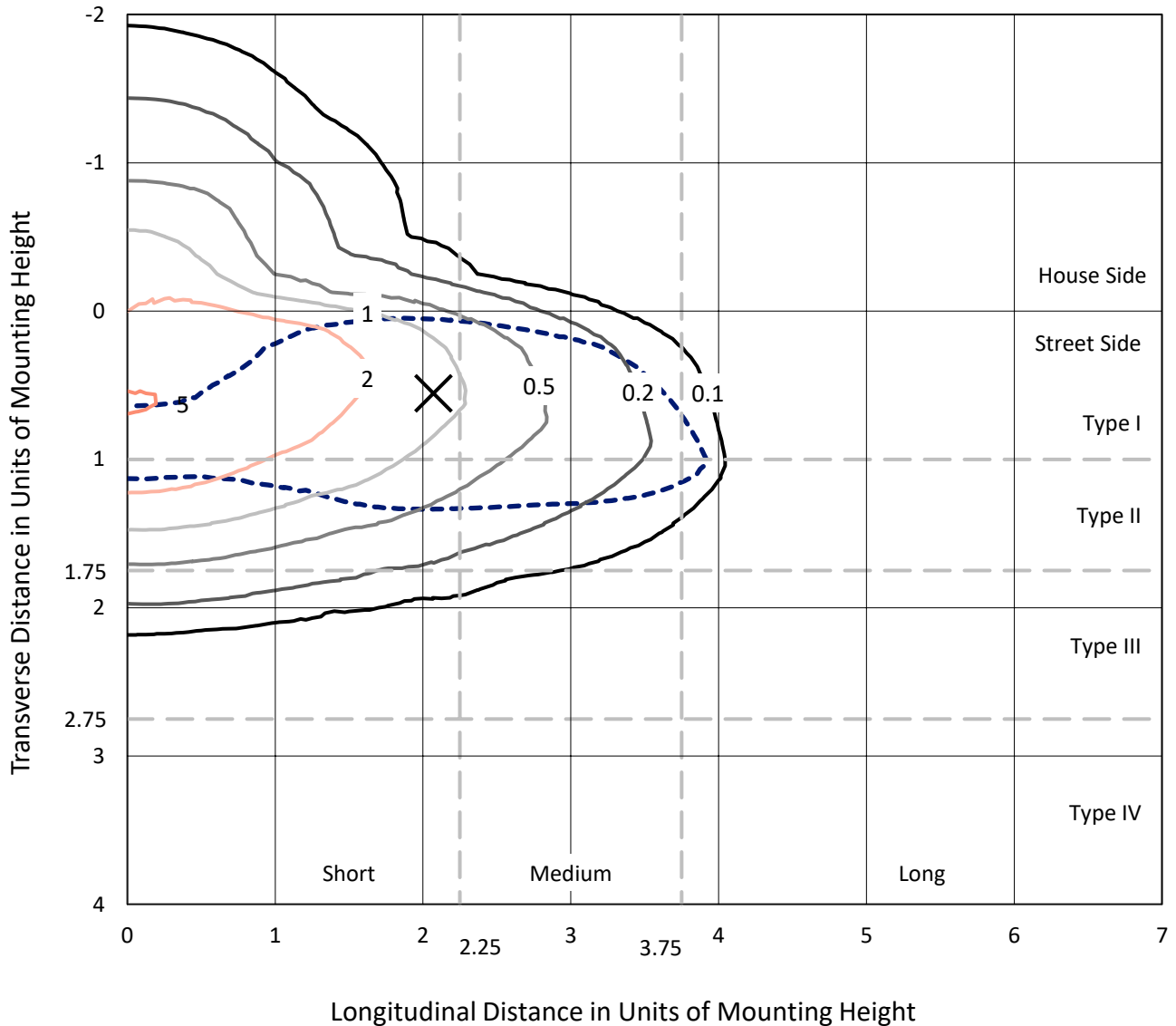
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

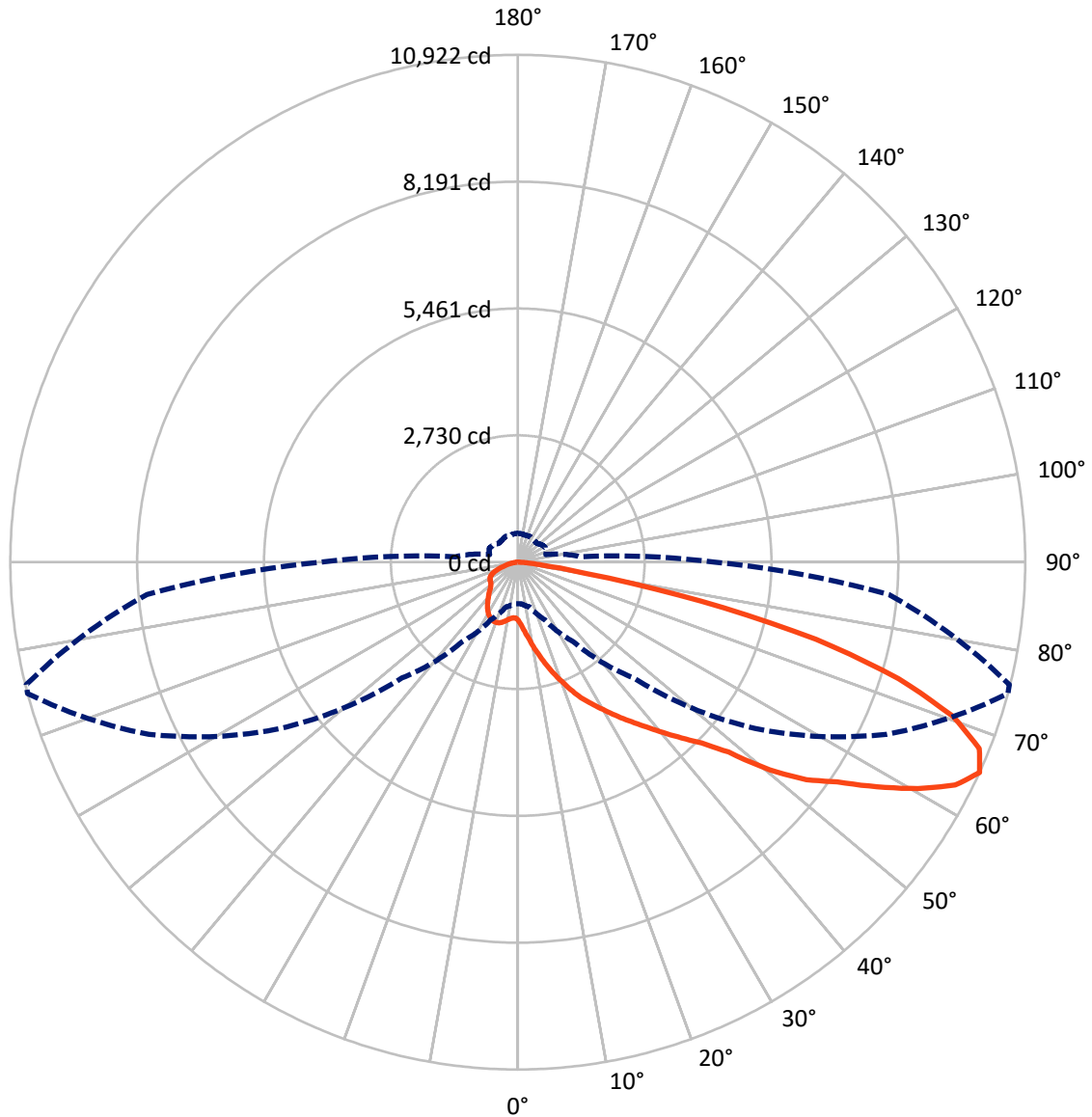
× Max cd  
 - - - 1/2 Max cd



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 75-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical



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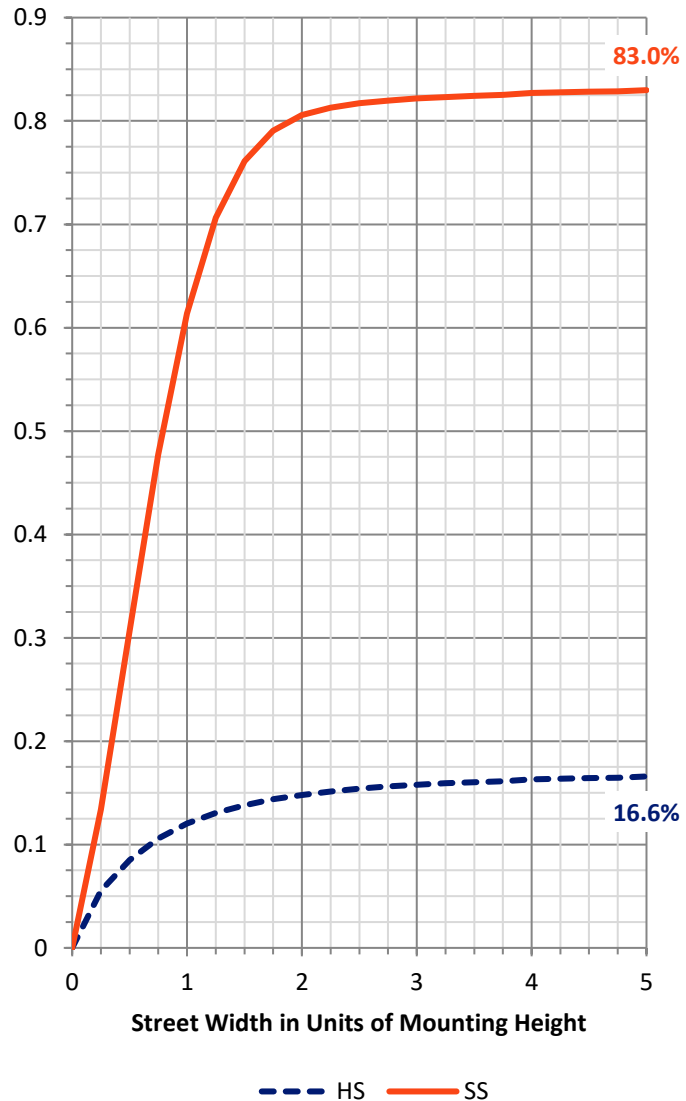
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2256.4	0.0	2256.4
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	11165.6	0.0	11165.6
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	13422.0	0.0	13422.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	151.5	1.1
10°-20°	593.5	4.4
20°-30°	1146.4	8.5
30°-40°	1862.1	13.9
40°-50°	2561.4	19.1
50°-60°	3024.2	22.5
60°-70°	2649.7	19.7
70°-80°	1265.0	9.4
80°-90°	168.3	1.3
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°	13422.0	100.0
0°-180°	13422.0	100.0



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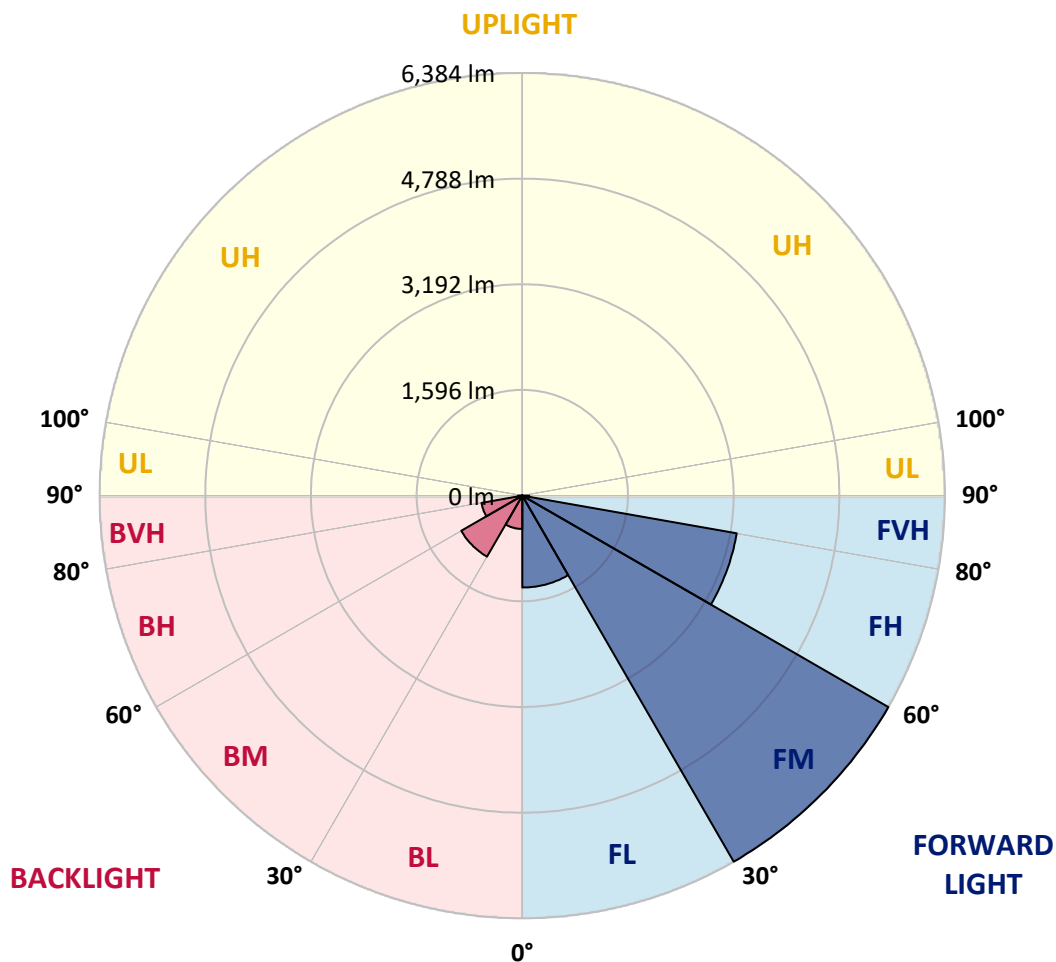
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1387.6	10.3			
FM	(30°-60°)	6383.8	47.6			
FH	(60°-80°)	3289.0	24.5			G2/5000
FVH	(80°-90°)	105.2	0.8			G2/225
BL	(0°-30°)	503.7	3.8	B2/1000		
BM	(30°-60°)	1063.9	7.9	B2/2500		
BH	(60°-80°)	625.7	4.7	B2/1000		G2/1000
BVH	(80°-90°)	63.1	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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1247.1	1247.1	1247.1	1247.1	1247.1	1247.1	1247.1	1247.1	1247.1	1247.1	1247.1
2.5°	1656.9	1646.0	1634.4	1602.3	1568.1	1529.5	1474.2	1421.1	1350.5	1348.3	1295.8
5°	2116.3	2109.0	2057.3	2027.5	1948.1	1842.6	1753.0	1614.0	1485.1	1469.8	1367.9
7.5°	2538.6	2510.2	2490.5	2436.6	2358.0	2222.6	2049.3	1861.5	1646.0	1625.6	1456.7
10°	2856.7	2853.8	2843.6	2797.0	2738.0	2603.3	2411.2	2141.8	1849.9	1809.8	1564.5
12.5°	3094.8	3096.9	3095.5	3094.8	3052.5	2938.2	2730.0	2446.1	2055.9	2027.5	1689.0
15°	3251.3	3273.1	3281.8	3318.2	3321.9	3245.4	3066.4	2740.2	2288.1	2245.9	1822.9
17.5°	3354.6	3365.6	3406.3	3468.2	3518.5	3504.6	3345.2	3012.5	2525.5	2454.8	1962.0
20°	3453.7	3472.6	3503.9	3588.3	3677.2	3717.9	3605.8	3291.3	2760.6	2715.5	2115.6
22.5°	3659.7	3686.6	3697.5	3740.5	3816.2	3888.3	3837.3	3558.5	3018.3	2957.2	2278.7
25°	4008.4	4036.8	4006.2	3996.0	4020.8	4056.4	4045.5	3810.4	3261.5	3174.1	2433.0
27.5°	4462.7	4466.3	4406.6	4349.8	4288.7	4270.5	4237.0	4033.9	3472.6	3399.8	2588.1
30°	4950.4	4933.0	4834.0	4731.3	4627.9	4526.0	4429.9	4249.4	3707.7	3624.0	2740.2
32.5°	5403.3	5393.8	5283.9	5124.4	4949.7	4853.6	4659.2	4467.0	3959.6	3878.8	2896.7
35°	5742.5	5756.3	5635.5	5461.5	5270.8	5185.6	4940.2	4695.6	4220.2	4132.2	3067.1
37.5°	5983.5	5976.2	5869.2	5718.5	5551.0	5476.8	5268.6	4945.3	4500.5	4416.1	3253.5
40°	6069.4	6065.0	5985.7	5875.7	5769.4	5743.2	5612.2	5214.7	4821.6	4722.6	3477.7
42.5°	6014.8	6024.2	5971.8	5942.0	5922.3	5941.3	5953.6	5567.8	5171.8	5080.7	3720.8
45°	5847.3	5842.2	5835.0	5883.7	5994.4	6118.9	6291.4	5901.2	5552.5	5479.7	4047.0
47.5°	5548.1	5584.5	5602.7	5737.4	5979.1	6274.0	6680.2	6348.2	6105.1	6041.7	4544.2
50°	5129.5	5158.6	5266.4	5505.9	5866.3	6332.2	7060.2	7079.1	7026.7	6908.0	5084.4
52.5°	4475.8	4520.9	4743.0	5181.9	5634.8	6308.2	7290.2	7705.9	7775.1	7686.3	5616.6
55°	3744.1	3807.5	4041.9	4617.7	5315.9	6177.1	7449.0	8069.2	8345.1	8262.9	6129.1
57.5°	3027.8	3094.8	3335.7	3893.4	4759.7	5887.4	7553.1	8474.0	9121.2	9014.2	6766.8
60°	2269.2	2339.1	2545.8	3120.2	3967.6	5321.0	7482.4	8824.9	9896.5	9850.6	7405.3
62.5°	1464.0	1541.2	1721.0	2196.4	3049.6	4547.1	7104.6	9018.5	10567.7	10512.4	7871.2
65°	891.8	900.5	999.6	1363.6	2087.2	3520.6	6240.5	8761.5	10921.5	10904.8	8013.2
67.5°	576.6	590.4	635.5	816.8	1251.4	2445.4	4989.7	7913.4	10714.8	10709.0	7719.8
70°	487.0	491.4	511.8	551.1	727.3	1482.9	3503.9	6561.5	9929.3	9929.3	7014.3
72.5°	435.3	441.2	448.5	460.8	519.1	840.1	2090.8	5107.7	8573.0	8629.8	5970.4
75°	395.3	393.9	398.2	400.4	442.6	548.9	1081.1	3777.6	6632.1	6518.6	4323.6
77.5°	338.5	340.7	338.5	348.0	390.9	417.9	548.9	2534.9	4019.3	3872.3	2170.2
80°	278.1	281.7	285.4	291.2	334.2	317.4	329.8	1155.3	1486.6	1455.3	670.5
82.5°	208.9	214.0	219.9	233.7	262.8	209.7	208.2	493.6	536.5	491.4	246.8
85°	84.4	99.7	150.7	164.5	165.3	115.0	128.1	206.0	219.1	214.0	96.8
87.5°	19.7	23.3	48.8	73.5	67.7	43.0	47.3	67.0	76.4	70.6	32.8
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°	1247.1	1247.1	1247.1	1247.1	1247.1	1247.1	1247.1	1247.1	1247.1	1247.1	1247.1
2.5°	1271.8	1246.3	1202.7	1169.2	1145.2	1124.0	1110.9	1102.9	1100.0	1099.3	1100.0
5°	1314.8	1269.6	1200.5	1156.8	1132.8	1118.9	1110.9	1110.2	1110.9	1111.7	1109.5
7.5°	1373.7	1309.0	1218.7	1177.9	1159.7	1149.5	1145.9	1144.4	1145.2	1144.4	1144.4
10°	1452.4	1363.6	1254.4	1212.1	1196.8	1185.2	1179.4	1175.7	1172.8	1169.9	1168.4
12.5°	1539.0	1424.0	1292.9	1252.2	1230.3	1212.1	1199.0	1189.6	1183.0	1176.5	1175.0
15°	1635.8	1488.0	1335.9	1279.1	1247.8	1220.9	1198.3	1183.0	1171.4	1161.9	1161.2
17.5°	1728.3	1548.5	1365.0	1291.5	1245.6	1207.8	1177.9	1156.8	1142.2	1129.9	1128.4
20°	1827.3	1606.0	1378.1	1283.5	1223.8	1177.9	1138.6	1113.1	1096.4	1082.5	1080.4
22.5°	1927.0	1654.8	1376.7	1258.0	1185.9	1132.0	1090.6	1063.6	1044.0	1030.1	1025.0
25°	2022.4	1694.1	1358.5	1217.2	1133.5	1077.4	1035.2	1010.5	993.0	976.3	976.3
27.5°	2108.3	1717.4	1324.2	1167.7	1079.6	1020.7	987.2	964.6	948.6	937.7	931.1
30°	2192.8	1728.3	1277.6	1105.1	1022.8	972.6	945.7	932.6	918.0	905.6	904.2
32.5°	2268.5	1726.1	1219.4	1044.0	969.0	933.3	922.4	912.2	896.9	879.4	875.1
35°	2342.0	1711.5	1150.2	977.0	923.8	910.0	912.9	898.4	870.7	848.9	845.2
37.5°	2422.1	1685.3	1074.5	922.4	886.0	899.1	906.4	874.3	829.2	795.0	787.0
40°	2514.5	1655.5	995.9	867.8	856.1	888.9	888.9	829.9	768.0	746.9	741.1
42.5°	2623.0	1630.7	930.4	821.9	831.4	864.1	860.5	771.0	745.5	734.6	731.6
45°	2794.8	1622.0	862.7	781.9	811.0	835.0	805.2	750.6	736.0	727.3	724.4
47.5°	3066.4	1632.2	803.0	752.0	787.7	805.9	743.3	736.7	726.5	714.2	712.7
50°	3318.2	1622.7	760.8	735.3	767.3	771.0	717.8	720.0	714.2	700.3	697.4
52.5°	3524.3	1592.9	733.8	726.5	749.8	709.8	693.8	701.8	699.6	682.1	679.2
55°	3750.7	1574.7	720.7	726.5	738.2	656.7	671.2	682.9	680.0	667.6	666.9
57.5°	4025.1	1578.3	711.3	728.7	726.5	629.7	648.7	662.5	661.8	658.1	658.1
60°	4306.2	1579.8	696.7	728.0	712.7	608.6	625.4	645.0	646.5	648.7	648.7
62.5°	4399.3	1516.4	668.3	714.9	682.1	588.2	603.5	630.5	629.0	634.8	635.5
65°	4225.3	1341.0	626.1	685.1	642.8	573.7	586.8	611.5	603.5	618.8	621.7
67.5°	3846.1	1109.5	560.6	631.2	599.1	558.4	575.9	585.3	570.8	600.6	601.3
70°	3324.1	866.3	477.6	554.7	549.6	542.4	567.1	552.6	532.2	568.6	561.3
72.5°	2779.5	661.8	381.5	453.5	483.4	518.3	551.8	510.3	481.9	492.9	479.8
75°	2087.9	489.2	306.5	355.3	402.6	484.1	538.0	459.4	415.7	405.5	402.6
77.5°	1064.3	319.6	229.3	265.7	302.1	437.5	519.1	399.7	344.3	328.3	321.1
80°	380.0	198.7	161.6	183.5	203.8	376.4	453.5	330.5	267.2	264.3	267.2
82.5°	176.2	128.1	108.5	120.1	120.8	251.2	345.8	246.8	203.1	308.7	260.6
85°	75.7	64.1	61.2	59.7	55.3	112.1	194.4	132.5	206.8	92.5	85.2
87.5°	22.6	25.5	22.6	16.7	12.4	12.4	19.7	7.3	5.1	3.6	3.6
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)