

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: P458622

Luminaire Tested: **GALN-SA1D-735-U-T3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458622  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA1D-735-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7231 lumens  
Efficiency: N/A  
Efficacy: 111.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

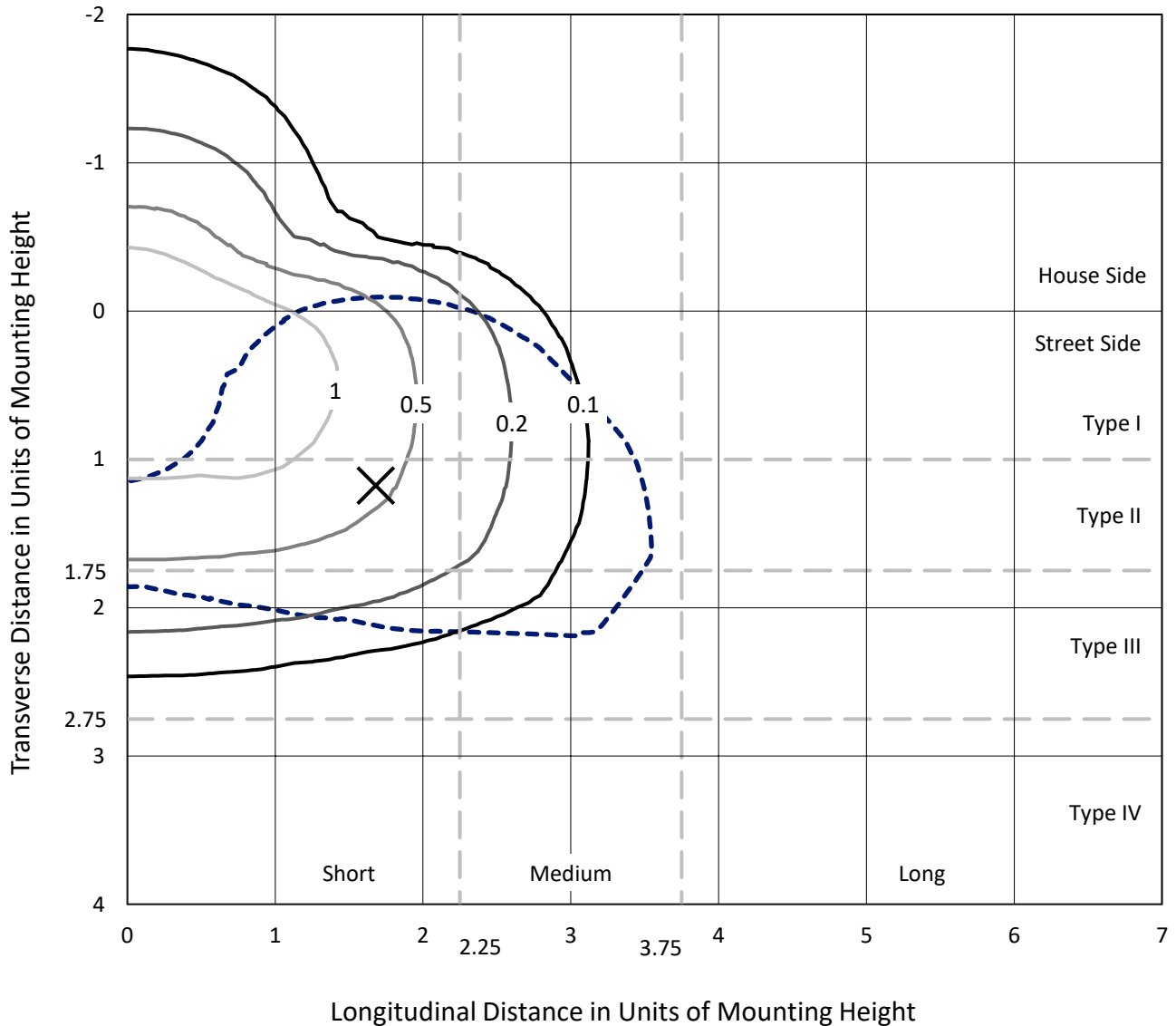
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

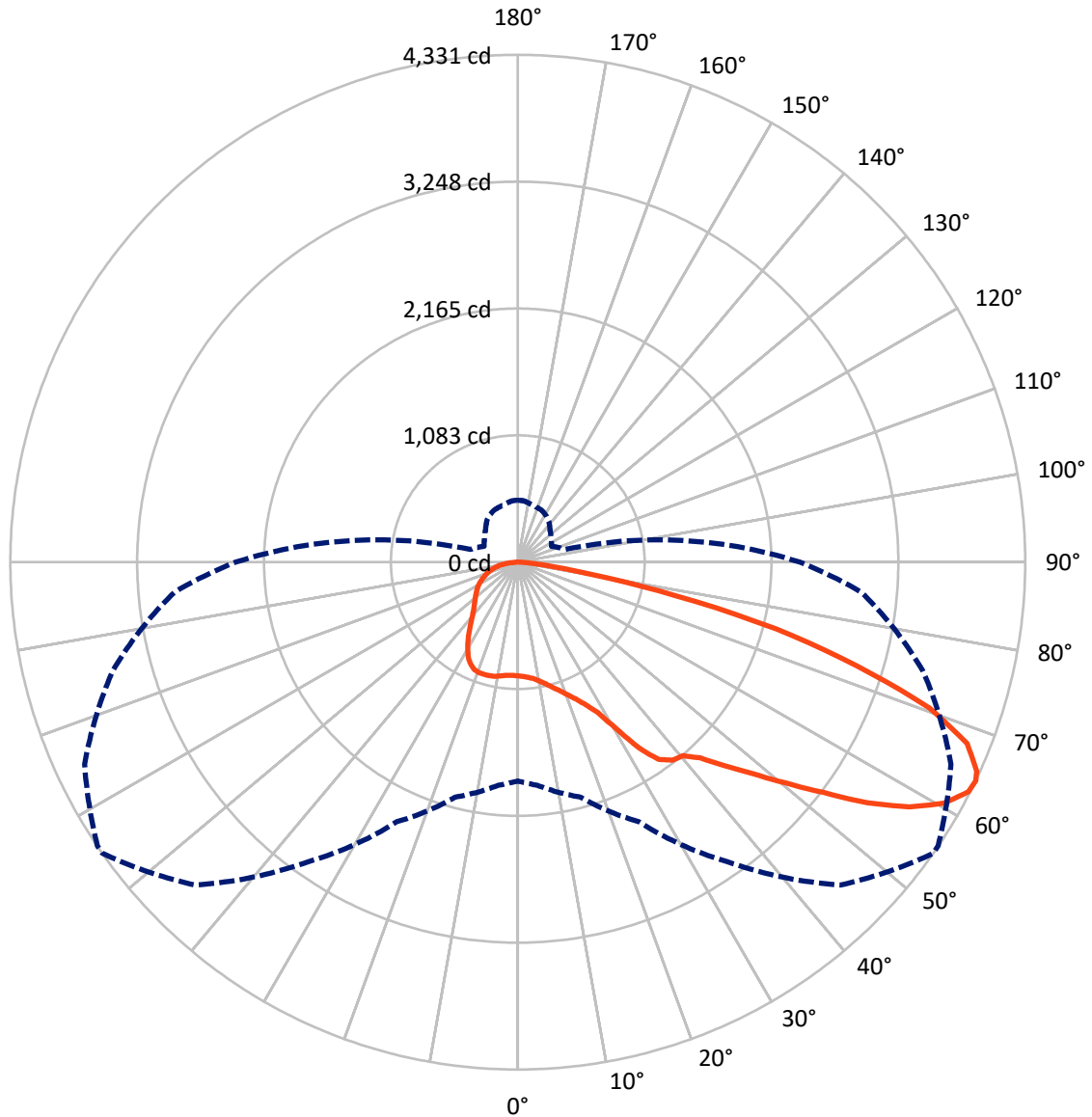
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 64-Deg Vertical

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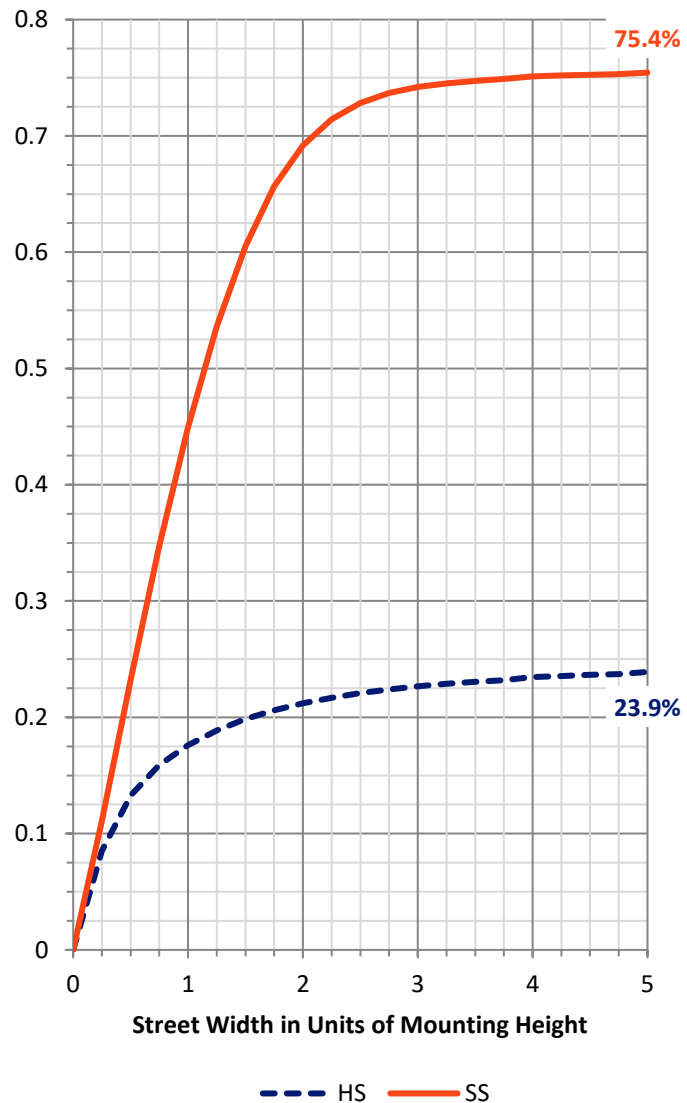
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1756.5	0.0	1756.5
	% Fixture	24.3	0.0	24.3
<b>Street Side</b>	Lumens	5474.4	0.0	5474.4
	% Fixture	75.7	0.0	75.7
<b>Total</b>	Lumens	7231.0	0.0	7231.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.4	1.3
10°-20°	297.8	4.1
20°-30°	530.1	7.3
30°-40°	815.6	11.3
40°-50°	1156.2	16.0
50°-60°	1673.6	23.1
60°-70°	1732.0	24.0
70°-80°	811.1	11.2
80°-90°	120.1	1.7
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°	7231.0	100.0
0°-180°	7231.0	100.0



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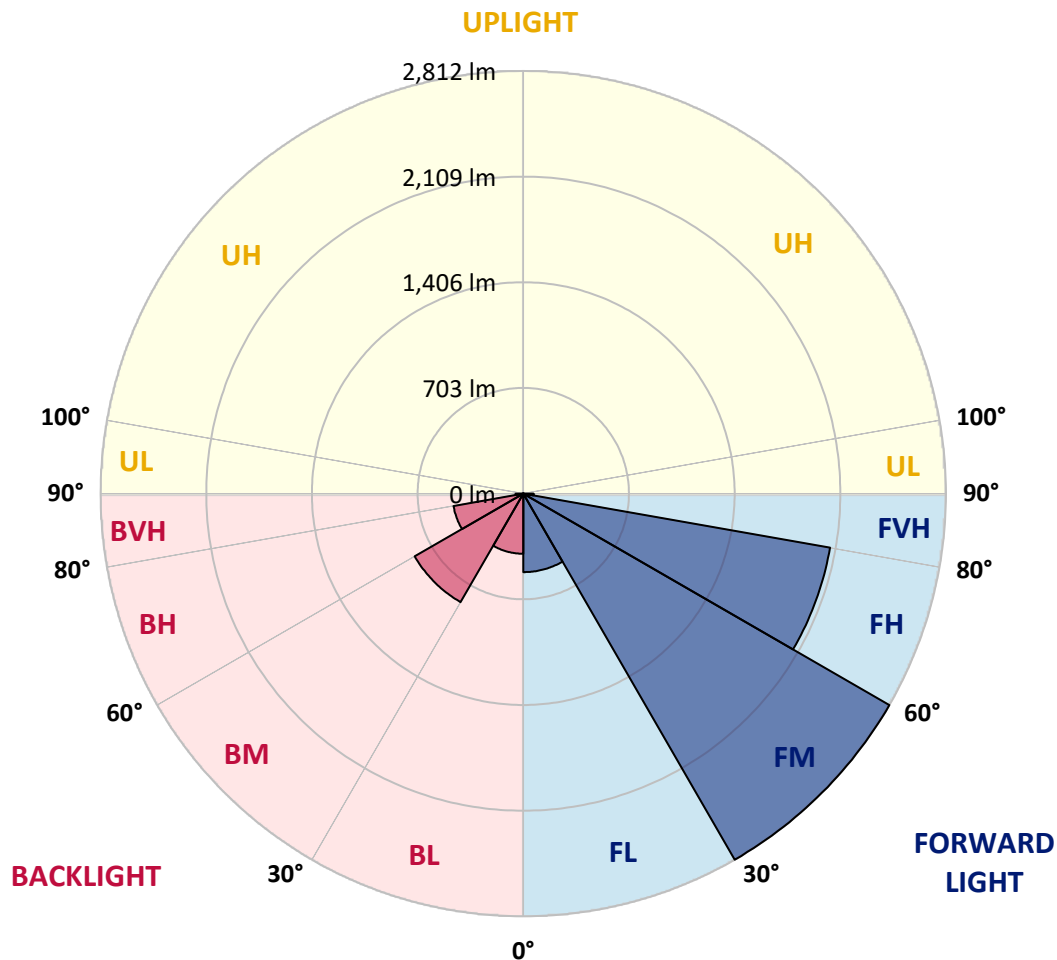
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	522.2	7.2			
FM (30°-60°)	2811.6	38.9			
FH (60°-80°)	2071.9	28.7			G2/5000
FVH (80°-90°)	68.8	1.0			G1/100
BL (0°-30°)	400.1	5.5	B1/500		
BM (30°-60°)	833.9	11.5	B1/1000		
BH (60°-80°)	471.2	6.5	B1/500		G1/500
BVH (80°-90°)	51.3	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	970.2	970.2	970.2	970.2	970.2	970.2	970.2	970.2	970.2	970.2	970.2
2.5°	981.1	980.7	981.9	980.7	981.5	978.6	977.4	978.2	977.0	975.0	971.4
5°	993.2	992.8	993.2	991.5	992.4	990.7	987.9	988.7	986.7	982.3	977.0
7.5°	1013.7	1012.1	1012.1	1011.7	1010.1	1007.7	1005.7	1004.8	1002.8	997.2	989.1
10°	1040.3	1040.3	1040.7	1037.5	1039.5	1035.1	1033.1	1032.7	1025.8	1018.5	1007.3
12.5°	1075.4	1077.4	1076.2	1074.6	1073.8	1072.2	1065.3	1066.9	1059.3	1046.8	1033.1
15°	1118.9	1122.1	1120.1	1119.3	1117.3	1111.3	1108.4	1107.2	1097.1	1079.0	1060.9
17.5°	1176.6	1172.5	1170.9	1168.9	1160.4	1156.0	1151.2	1150.4	1141.5	1120.1	1091.9
20°	1226.9	1232.6	1229.4	1227.3	1218.9	1210.4	1206.8	1205.6	1197.9	1174.5	1129.4
22.5°	1287.0	1288.2	1289.4	1284.6	1280.5	1274.1	1267.6	1265.6	1262.8	1238.6	1183.4
25°	1351.1	1355.9	1351.9	1347.0	1342.2	1341.8	1347.9	1347.0	1345.8	1322.5	1255.2
27.5°	1455.5	1459.9	1461.1	1455.9	1437.3	1438.9	1452.7	1457.1	1475.6	1436.9	1347.5
30°	1514.3	1518.8	1528.8	1548.6	1578.0	1603.8	1636.9	1646.9	1664.7	1591.7	1457.1
32.5°	1550.6	1552.2	1570.3	1607.0	1695.3	1791.6	1881.5	1885.1	1896.4	1794.1	1557.5
35°	1607.8	1609.0	1623.6	1663.9	1767.4	1927.9	2066.9	2071.4	2062.1	1856.9	1604.2
37.5°	1678.4	1681.6	1690.9	1724.3	1848.1	2041.9	2143.9	2140.7	2058.5	1906.9	1686.8
40°	1781.2	1781.2	1770.3	1815.4	1933.1	2107.2	2170.9	2165.3	2143.5	2051.6	1812.6
42.5°	1871.8	1870.2	1896.0	1926.7	2039.5	2208.0	2284.2	2293.5	2329.3	2233.4	1955.7
45°	1989.9	1997.2	2011.7	2067.3	2220.5	2380.1	2478.5	2487.3	2538.1	2447.4	2123.0
47.5°	2109.2	2111.7	2157.2	2231.4	2444.6	2613.5	2694.1	2708.6	2755.0	2697.7	2303.1
50°	2193.9	2216.9	2289.8	2406.7	2675.6	2898.1	2960.9	2978.3	3060.1	2970.2	2513.1
52.5°	2283.4	2305.9	2395.0	2573.2	2940.8	3189.1	3266.5	3278.1	3363.2	3245.9	2728.0
55°	2360.0	2380.9	2482.1	2720.7	3152.0	3486.1	3626.4	3612.7	3653.4	3458.3	2893.6
57.5°	2372.5	2389.4	2516.7	2815.0	3310.8	3740.9	3942.0	3950.1	3902.9	3617.1	3030.3
60°	2275.7	2310.4	2456.7	2804.9	3382.1	3918.2	4177.4	4183.0	4049.2	3698.5	3084.7
62.5°	2104.4	2100.8	2277.7	2642.9	3282.2	3958.5	4316.0	4310.0	4106.4	3659.4	3031.9
64°	1867.8	1911.3	2076.6	2443.8	3120.9	3896.4	4330.6	4327.3	4079.0	3578.0	2942.0
65°	1723.5	1721.1	1884.3	2281.0	2960.5	3802.9	4304.8	4300.3	4021.8	3505.1	2872.3
67.5°	1244.3	1249.9	1411.1	1760.2	2406.7	3437.4	4136.7	4120.1	3796.1	3263.2	2607.0
70°	753.7	757.0	883.5	1167.7	1727.5	2778.7	3728.8	3729.6	3450.7	2902.1	2218.9
72.5°	397.0	405.5	456.3	663.0	1049.2	1949.6	3025.0	3096.8	2962.5	2476.8	1752.9
75°	220.9	222.1	258.0	326.9	535.3	1091.1	2273.7	2294.3	2345.4	1993.6	1296.3
77.5°	168.5	170.9	182.2	211.2	291.4	505.8	1376.1	1479.3	1653.0	1405.5	739.6
80°	136.6	139.1	148.7	166.1	193.9	239.8	639.3	694.9	884.7	623.9	288.6
82.5°	106.4	104.8	117.3	128.6	141.1	141.9	262.4	290.2	360.3	268.4	125.0
85°	79.0	79.0	89.1	86.7	91.1	83.0	115.7	127.8	144.3	114.1	58.0
87.5°	31.4	34.7	58.4	52.4	40.7	32.6	42.7	45.1	50.0	44.7	24.2
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°	970.2	970.2	970.2	970.2	970.2	970.2	970.2	970.2	970.2	970.2	970.2
2.5°	971.8	973.0	970.2	968.2	967.4	966.2	964.9	965.3	967.0	968.6	968.2
5°	976.6	977.0	972.2	969.8	968.2	966.6	966.6	967.8	971.0	973.4	973.4
7.5°	988.7	988.7	981.9	977.4	975.0	972.2	971.4	971.8	974.2	977.4	977.8
10°	1007.7	1006.1	997.2	990.3	985.9	979.0	973.0	969.8	971.0	973.0	973.0
12.5°	1030.6	1026.2	1014.9	1005.7	994.8	981.9	969.4	962.9	962.5	964.5	963.7
15°	1055.2	1050.4	1034.7	1017.7	998.8	979.9	964.9	955.7	948.4	946.4	950.8
17.5°	1083.8	1073.8	1052.0	1028.6	1000.4	975.8	952.4	933.5	920.6	917.0	918.2
20°	1118.5	1105.2	1075.8	1039.1	999.2	961.3	925.0	899.6	878.7	872.2	873.0
22.5°	1166.5	1143.5	1100.4	1044.3	989.1	933.9	883.5	850.5	825.1	815.0	821.0
25°	1220.9	1195.9	1123.8	1043.1	962.9	890.0	834.3	791.2	768.2	753.3	756.6
27.5°	1295.9	1251.5	1148.7	1032.3	925.4	836.4	771.9	731.2	710.2	702.5	706.2
30°	1391.8	1323.7	1175.7	1002.8	866.2	768.6	709.0	682.4	669.9	660.2	663.4
32.5°	1461.1	1374.5	1181.8	953.3	802.1	707.0	666.3	646.5	632.8	623.5	625.6
35°	1510.7	1417.6	1179.0	892.4	735.2	656.2	632.4	616.3	594.1	574.0	570.3
37.5°	1577.2	1471.6	1158.4	825.9	669.1	621.9	605.0	575.2	543.3	516.3	515.1
40°	1679.2	1534.9	1114.5	747.7	612.7	596.5	576.0	537.3	503.0	481.3	479.6
42.5°	1784.4	1593.3	1054.8	665.5	566.3	569.9	544.9	506.7	485.7	471.6	470.0
45°	1913.0	1656.6	990.3	594.1	532.0	544.9	517.9	495.8	483.3	474.0	471.6
47.5°	2052.0	1721.5	917.8	530.0	503.0	522.0	506.7	496.6	489.7	483.3	480.5
50°	2202.0	1794.1	849.7	478.4	476.8	498.2	505.4	501.8	497.8	495.8	493.4
52.5°	2366.4	1868.2	792.4	442.2	453.9	481.3	505.8	508.7	508.7	507.5	505.8
55°	2477.7	1919.8	734.4	412.7	430.5	467.6	505.0	515.9	520.0	518.3	516.7
57.5°	2559.9	1948.0	661.4	387.3	410.7	454.3	500.6	516.7	520.8	522.8	522.0
60°	2576.8	1921.8	565.9	360.7	389.4	434.9	484.5	504.6	509.9	522.4	523.6
62.5°	2500.6	1841.2	470.8	334.5	363.2	405.5	462.7	490.9	501.4	520.8	522.8
64°	2407.1	1750.9	418.0	318.0	346.2	389.0	451.8	487.3	501.0	526.8	528.4
65°	2338.6	1685.2	384.9	307.5	335.4	378.1	445.8	488.5	504.6	536.1	538.5
67.5°	2086.3	1459.1	318.4	283.0	309.6	359.5	447.0	498.6	503.8	539.7	539.3
70°	1726.3	1161.6	266.8	260.4	284.6	344.6	442.2	482.5	482.9	506.7	501.0
72.5°	1292.6	858.5	231.4	237.0	256.8	309.2	417.6	460.7	453.9	457.1	451.4
75°	888.0	567.9	199.1	212.0	227.7	273.3	382.9	418.4	407.5	403.5	399.4
77.5°	474.0	314.0	165.7	187.4	197.9	236.2	334.1	368.4	357.1	341.4	336.2
80°	191.9	147.9	133.4	155.2	161.2	190.2	278.1	299.5	291.0	263.6	254.7
82.5°	96.3	88.7	104.8	122.1	122.5	135.8	206.8	226.9	208.0	174.5	166.9
85°	50.4	52.0	72.1	85.9	75.8	73.4	124.1	137.4	126.2	109.6	98.8
87.5°	18.1	21.0	37.9	37.5	26.6	14.1	27.4	13.3	7.3	4.4	5.6
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)