

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: P450734

Luminaire Tested: **GALN-SA1C-740-U-T3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450734  
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-SA1C-740-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7054 lumens  
Efficiency: N/A  
Efficacy: 123.8 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

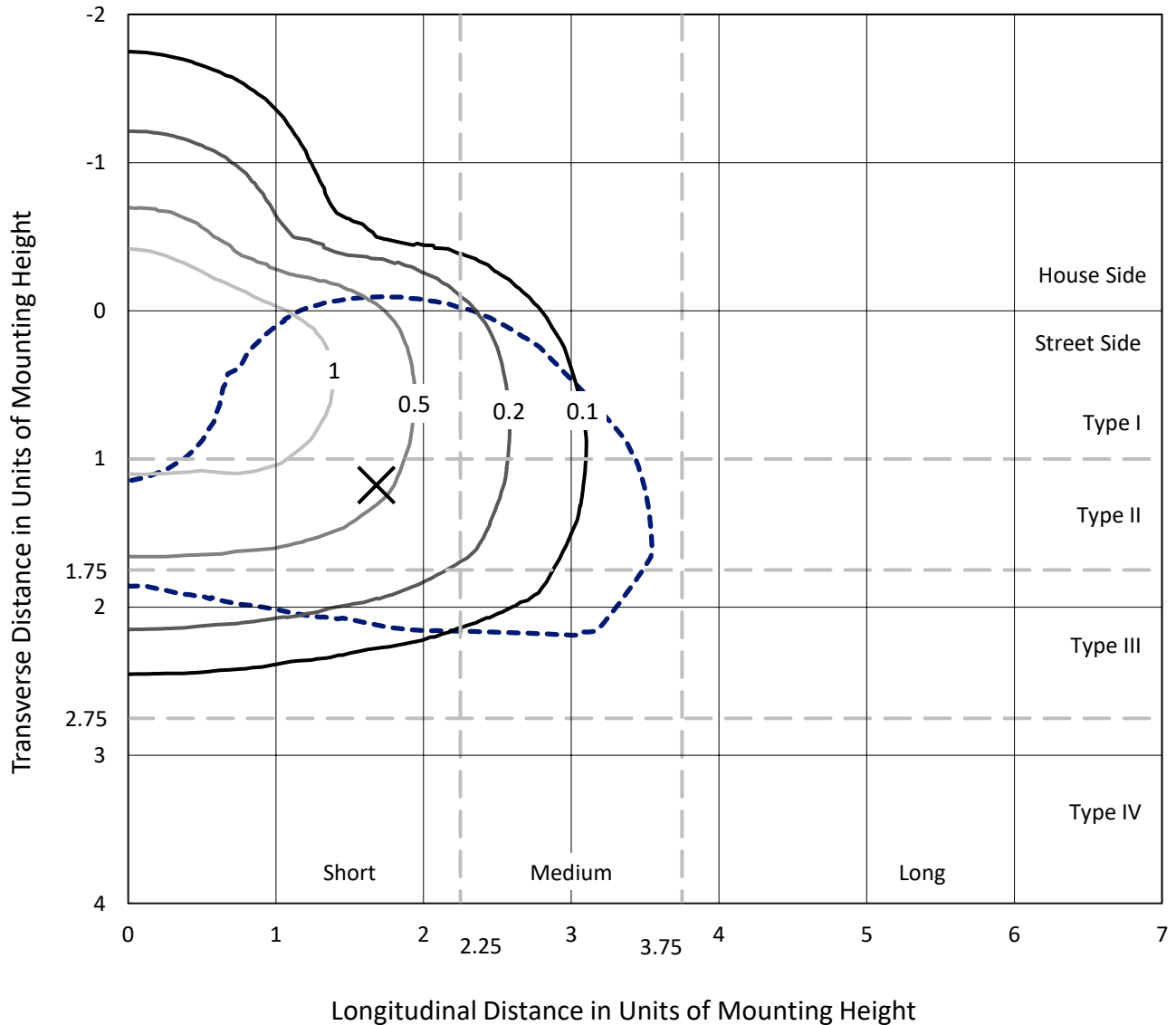
Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

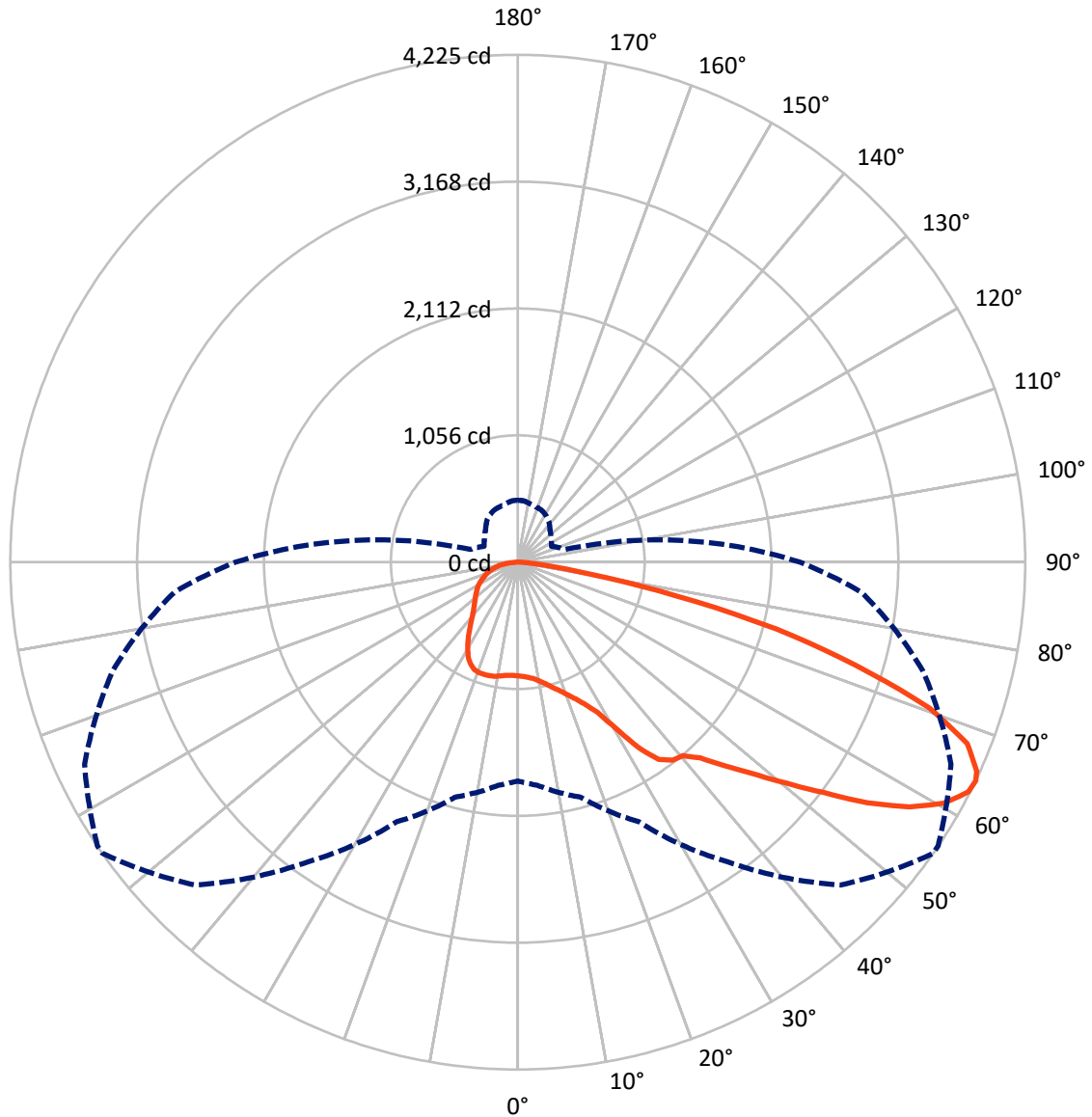
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 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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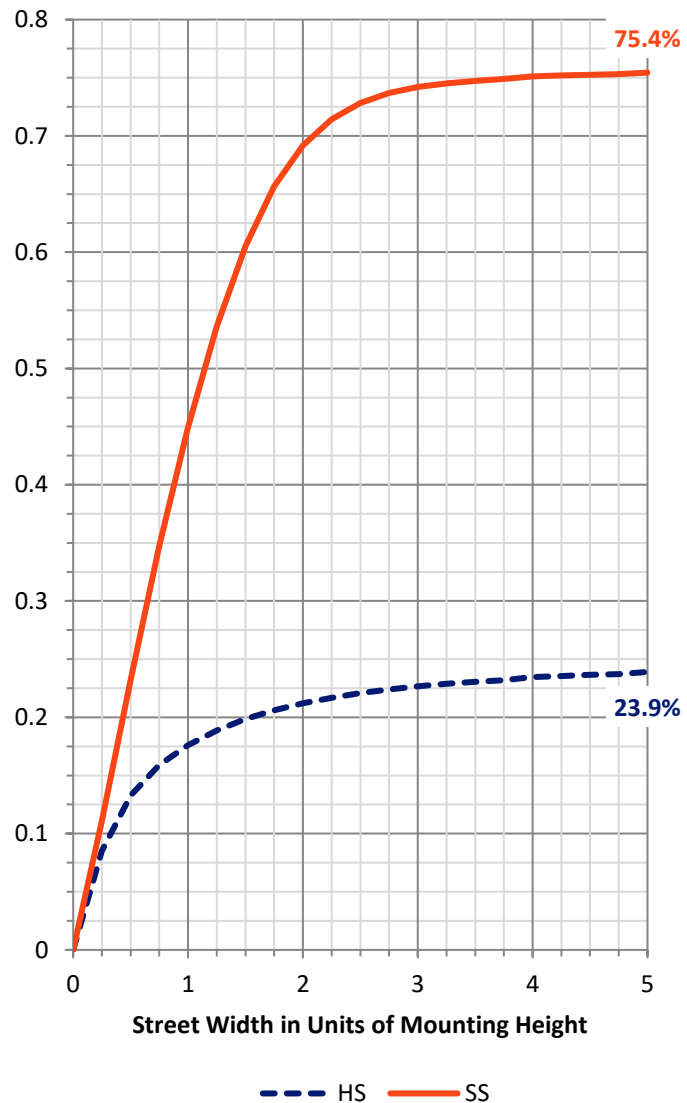
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1713.6	0.0	1713.6
	% Fixture	24.3	0.0	24.3
<b>Street Side</b>	Lumens	5340.4	0.0	5340.4
	% Fixture	75.7	0.0	75.7
<b>Total</b>	Lumens	7054.0	0.0	7054.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.1	1.3
10°-20°	290.5	4.1
20°-30°	517.1	7.3
30°-40°	795.7	11.3
40°-50°	1127.9	16.0
50°-60°	1632.7	23.1
60°-70°	1689.6	24.0
70°-80°	791.3	11.2
80°-90°	117.1	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°	7054.0	100.0
0°-180°	7054.0	100.0



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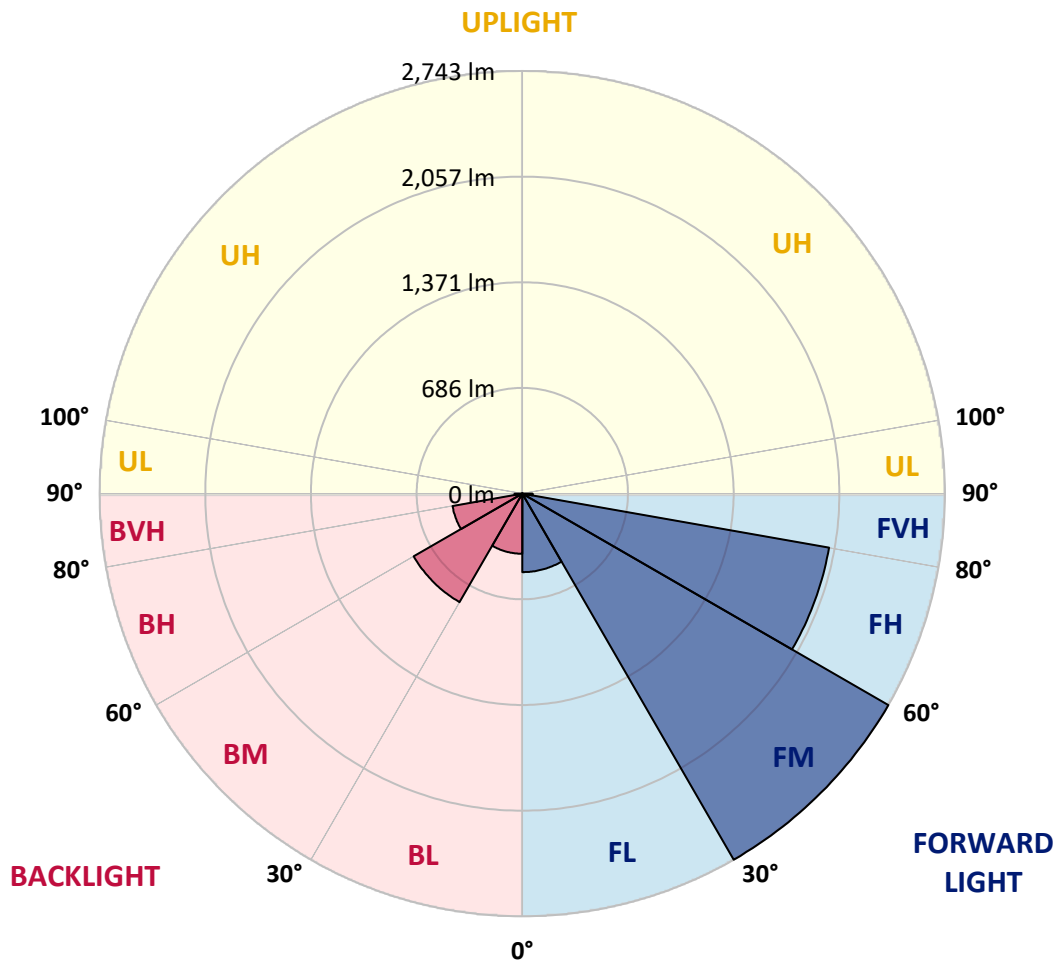
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	509.4	7.2			
FM	(30°-60°)	2742.8	38.9			
FH	(60°-80°)	2021.2	28.7			G2/5000
FVH	(80°-90°)	67.1	1.0			G1/100
BL	(0°-30°)	390.3	5.5	B1/500		
BM	(30°-60°)	813.5	11.5	B1/1000		
BH	(60°-80°)	459.7	6.5	B1/500		G1/500
BVH	(80°-90°)	50.1	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°	946.4	946.4	946.4	946.4	946.4	946.4	946.4	946.4	946.4	946.4	946.4
2.5°	957.1	956.7	957.8	956.7	957.4	954.7	953.5	954.3	953.1	951.2	947.6
5°	968.8	968.5	968.8	967.3	968.1	966.5	963.7	964.5	962.6	958.2	953.1
7.5°	988.9	987.3	987.3	986.9	985.4	983.0	981.0	980.2	978.3	972.8	964.9
10°	1014.9	1014.9	1015.2	1012.1	1014.1	1009.7	1007.8	1007.4	1000.7	993.6	982.6
12.5°	1049.1	1051.0	1049.8	1048.3	1047.5	1045.9	1039.2	1040.8	1033.3	1021.1	1007.8
15°	1091.5	1094.7	1092.7	1091.9	1090.0	1084.1	1081.3	1080.1	1070.3	1052.6	1034.9
17.5°	1147.8	1143.8	1142.2	1140.3	1132.0	1127.7	1123.0	1122.2	1113.5	1092.7	1065.2
20°	1196.9	1202.4	1199.3	1197.3	1189.0	1180.8	1177.2	1176.1	1168.6	1145.8	1101.7
22.5°	1255.5	1256.7	1257.8	1253.1	1249.2	1242.9	1236.6	1234.6	1231.9	1208.3	1154.4
25°	1318.0	1322.7	1318.8	1314.1	1309.4	1309.0	1314.9	1314.1	1312.9	1290.1	1224.4
27.5°	1419.8	1424.2	1425.4	1420.2	1402.2	1403.7	1417.1	1421.4	1439.5	1401.8	1314.5
30°	1477.3	1481.6	1491.4	1510.7	1539.4	1564.5	1596.8	1606.6	1623.9	1552.7	1421.4
32.5°	1512.6	1514.2	1531.9	1567.7	1653.8	1747.8	1835.5	1839.0	1850.0	1750.1	1519.3
35°	1568.5	1569.7	1583.8	1623.1	1724.2	1880.7	2016.3	2020.7	2011.6	1811.5	1564.9
37.5°	1637.3	1640.4	1649.5	1682.1	1802.8	1992.0	2091.4	2088.3	2008.1	1860.2	1645.5
40°	1737.6	1737.6	1726.9	1771.0	1885.8	2055.7	2117.8	2112.3	2091.0	2001.4	1768.2
42.5°	1826.0	1824.5	1849.6	1879.5	1989.6	2154.0	2228.3	2237.3	2272.3	2178.7	1907.8
45°	1941.2	1948.3	1962.5	2016.7	2166.1	2321.8	2417.8	2426.4	2476.0	2387.5	2071.0
47.5°	2057.6	2060.0	2104.4	2176.8	2384.8	2549.5	2628.2	2642.3	2687.5	2631.7	2246.7
50°	2140.2	2162.6	2233.8	2347.8	2610.1	2827.1	2888.5	2905.4	2985.2	2897.5	2451.6
52.5°	2227.5	2249.5	2336.4	2510.2	2868.8	3111.0	3186.5	3197.9	3280.9	3166.4	2661.2
55°	2302.2	2322.6	2421.3	2654.1	3074.8	3400.8	3537.6	3524.3	3564.0	3373.7	2822.8
57.5°	2314.4	2330.9	2455.1	2746.1	3229.7	3649.3	3845.5	3853.4	3807.4	3528.6	2956.1
60°	2220.0	2253.8	2396.6	2736.3	3299.3	3822.3	4075.1	4080.6	3950.1	3608.0	3009.2
62.5°	2052.9	2049.4	2222.0	2578.2	3201.8	3861.6	4210.4	4204.5	4005.9	3569.9	2957.7
64°	1822.1	1864.6	2025.8	2384.0	3044.6	3801.1	4224.5	4221.4	3979.2	3490.4	2870.0
65°	1681.3	1679.0	1838.2	2225.1	2888.1	3709.8	4199.4	4195.1	3923.4	3419.3	2801.9
67.5°	1213.8	1219.3	1376.6	1717.1	2347.8	3353.2	4035.4	4019.3	3703.2	3183.4	2543.2
70°	735.3	738.4	861.9	1139.1	1685.3	2710.7	3637.5	3638.3	3366.2	2831.0	2164.6
72.5°	387.3	395.6	445.1	646.8	1023.5	1901.9	2951.0	3021.0	2890.0	2416.2	1710.0
75°	215.5	216.7	251.6	318.9	522.2	1064.4	2218.0	2238.1	2288.0	1944.8	1264.5
77.5°	164.4	166.7	177.7	206.0	284.3	493.5	1342.4	1443.0	1612.5	1371.1	721.5
80°	133.3	135.7	145.1	162.0	189.1	234.0	623.6	677.9	863.1	608.7	281.5
82.5°	103.8	102.2	114.4	125.4	137.6	138.4	256.0	283.1	351.5	261.9	121.9
85°	77.1	77.1	86.9	84.5	88.9	81.0	112.8	124.6	140.8	111.3	56.6
87.5°	30.7	33.8	57.0	51.1	39.7	31.8	41.7	44.0	48.8	43.6	23.6
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°	946.4	946.4	946.4	946.4	946.4	946.4	946.4	946.4	946.4	946.4	946.4
2.5°	948.0	949.2	946.4	944.5	943.7	942.5	941.3	941.7	943.3	944.9	944.5
5°	952.7	953.1	948.4	946.0	944.5	942.9	942.9	944.1	947.2	949.6	949.6
7.5°	964.5	964.5	957.8	953.5	951.2	948.4	947.6	948.0	950.4	953.5	953.9
10°	983.0	981.4	972.8	966.1	961.8	955.1	949.2	946.0	947.2	949.2	949.2
12.5°	1005.4	1001.1	990.1	981.0	970.4	957.8	945.6	939.4	939.0	940.9	940.1
15°	1029.4	1024.7	1009.3	992.8	974.4	955.9	941.3	932.3	925.2	923.2	927.6
17.5°	1057.3	1047.5	1026.3	1003.4	975.9	951.9	929.1	910.7	898.1	894.5	895.7
20°	1091.1	1078.2	1049.5	1013.7	974.7	937.8	902.4	877.6	857.2	850.9	851.7
22.5°	1137.9	1115.5	1073.4	1018.8	964.9	911.0	861.9	829.7	804.9	795.1	800.9
25°	1191.0	1166.6	1096.2	1017.6	939.4	868.2	813.9	771.9	749.4	734.9	738.0
27.5°	1264.1	1220.9	1120.6	1007.0	902.8	815.9	753.0	713.3	692.8	685.3	688.9
30°	1357.7	1291.3	1147.0	978.3	845.0	749.8	691.6	665.7	653.5	644.1	647.2
32.5°	1425.4	1340.8	1152.9	929.9	782.5	689.7	650.0	630.7	617.3	608.3	610.2
35°	1473.7	1382.9	1150.1	870.5	717.2	640.1	616.9	601.2	579.6	559.9	556.4
37.5°	1538.6	1435.6	1130.1	805.7	652.7	606.7	590.2	561.1	530.0	503.7	502.5
40°	1638.1	1497.3	1087.2	729.4	597.7	581.9	561.9	524.1	490.7	469.5	467.9
42.5°	1740.7	1554.3	1029.0	649.2	552.4	556.0	531.6	494.3	473.8	460.0	458.5
45°	1866.1	1616.1	966.1	579.6	519.0	531.6	505.3	483.6	471.4	462.4	460.0
47.5°	2001.8	1679.4	895.3	517.1	490.7	509.2	494.3	484.4	477.7	471.4	468.7
50°	2148.1	1750.1	828.9	466.7	465.2	486.0	493.1	489.5	485.6	483.6	481.3
52.5°	2308.5	1822.5	773.0	431.3	442.7	469.5	493.5	496.2	496.2	495.0	493.5
55°	2417.0	1872.8	716.4	402.6	419.9	456.1	492.7	503.3	507.2	505.7	504.1
57.5°	2497.2	1900.3	645.2	377.9	400.7	443.1	488.4	504.1	508.0	510.0	509.2
60°	2513.7	1874.8	552.1	351.9	379.8	424.3	472.6	492.3	497.4	509.6	510.8
62.5°	2439.4	1796.1	459.3	326.4	354.3	395.6	451.4	478.9	489.1	508.0	510.0
64°	2348.2	1708.1	407.7	310.2	337.8	379.4	440.8	475.4	488.7	513.9	515.5
65°	2281.3	1644.0	375.5	300.0	327.1	368.8	434.9	476.6	492.3	523.0	525.3
67.5°	2035.2	1423.4	310.6	276.0	302.0	350.7	436.1	486.4	491.5	526.5	526.1
70°	1684.1	1133.2	260.3	254.0	277.6	336.2	431.3	470.7	471.1	494.3	488.7
72.5°	1261.0	837.5	225.7	231.2	250.5	301.6	407.4	449.4	442.7	445.9	440.4
75°	866.2	554.0	194.2	206.8	222.2	266.6	373.5	408.1	397.5	393.6	389.7
77.5°	462.4	306.3	161.6	182.8	193.1	230.4	326.0	359.4	348.4	333.0	327.9
80°	187.2	144.3	130.1	151.4	157.3	185.6	271.3	292.1	283.9	257.2	248.5
82.5°	94.0	86.5	102.2	119.1	119.5	132.5	201.7	221.4	202.9	170.3	162.8
85°	49.2	50.7	70.4	83.8	73.9	71.6	121.1	134.1	123.1	107.0	96.3
87.5°	17.7	20.4	37.0	36.6	26.0	13.8	26.7	13.0	7.1	4.3	5.5
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)