

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: P646747

Luminaire Tested: **GALN-SA1C-835-U-T3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P646747  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1C-835-U-T3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS  
WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4748.9 lumens  
Efficiency: N/A  
Efficacy: 83.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

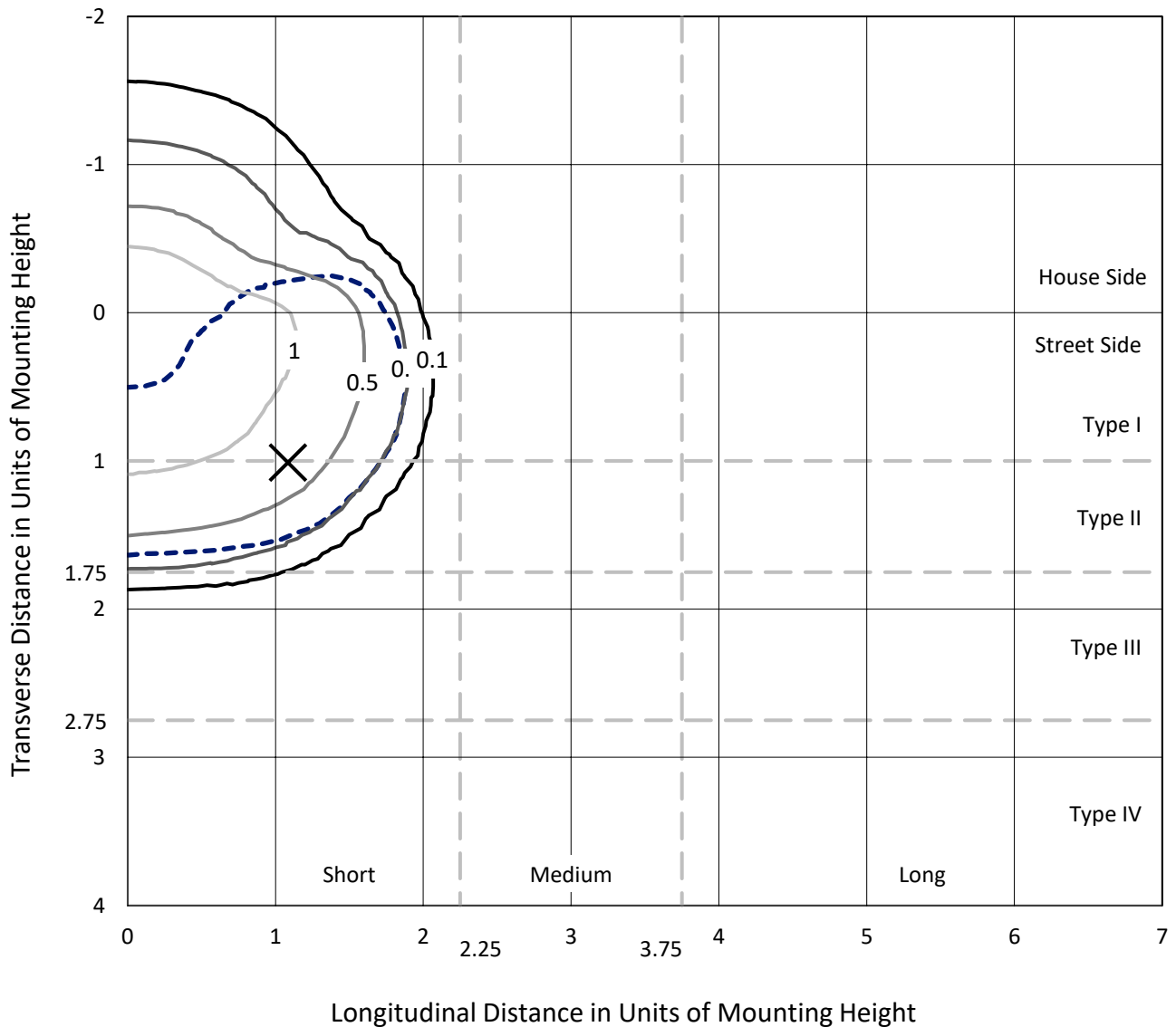
Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

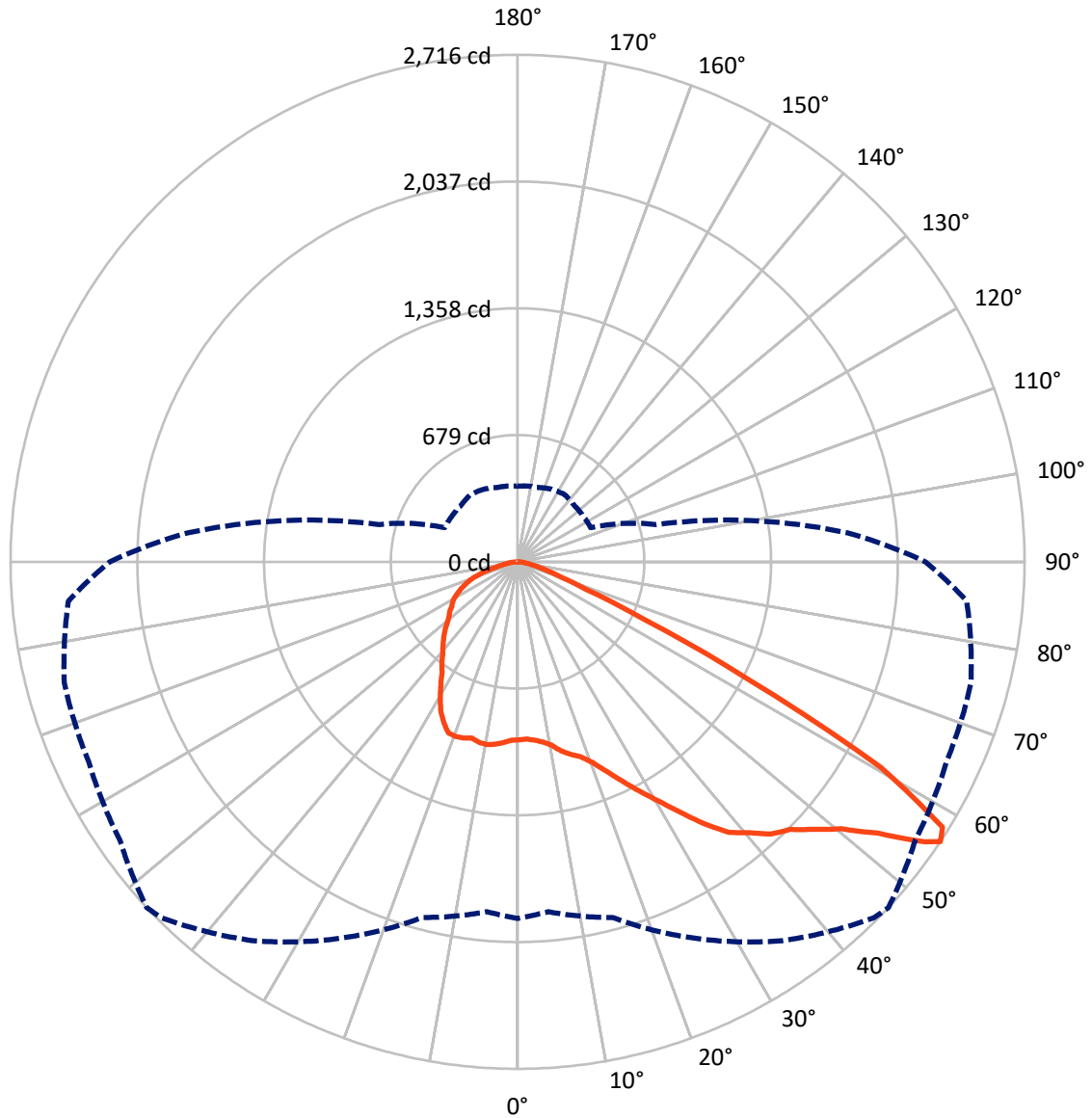
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 56-Deg Vertical

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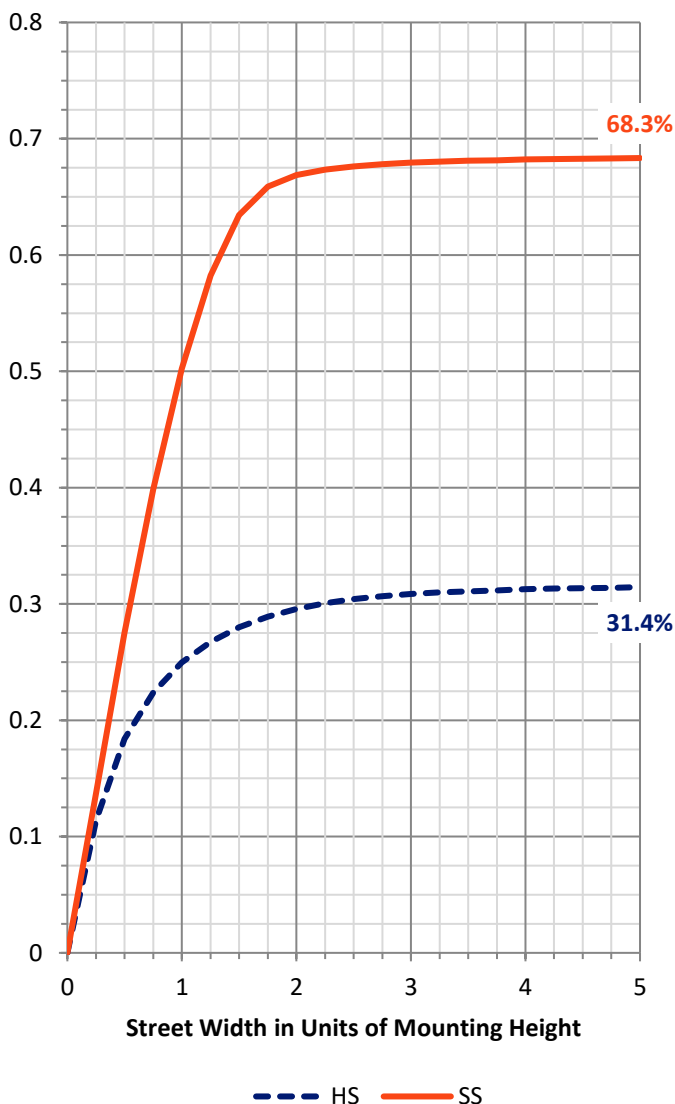
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1504.9	0.0	1504.9
	% Fixture	31.7	0.0	31.7
<b>Street Side</b>	Lumens	3244.0	0.0	3244.0
	% Fixture	68.3	0.0	68.3
<b>Total</b>	Lumens	4748.9	0.0	4748.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.9	2.0
10°-20°	293.2	6.2
20°-30°	518.3	10.9
30°-40°	778.5	16.4
40°-50°	1068.4	22.5
50°-60°	1272.8	26.8
60°-70°	544.7	11.5
70°-80°	154.1	3.2
80°-90°	25.9	0.5
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°	4748.9	100.0
0°-180°	4748.9	100.0

**Coefficient of Utilization**



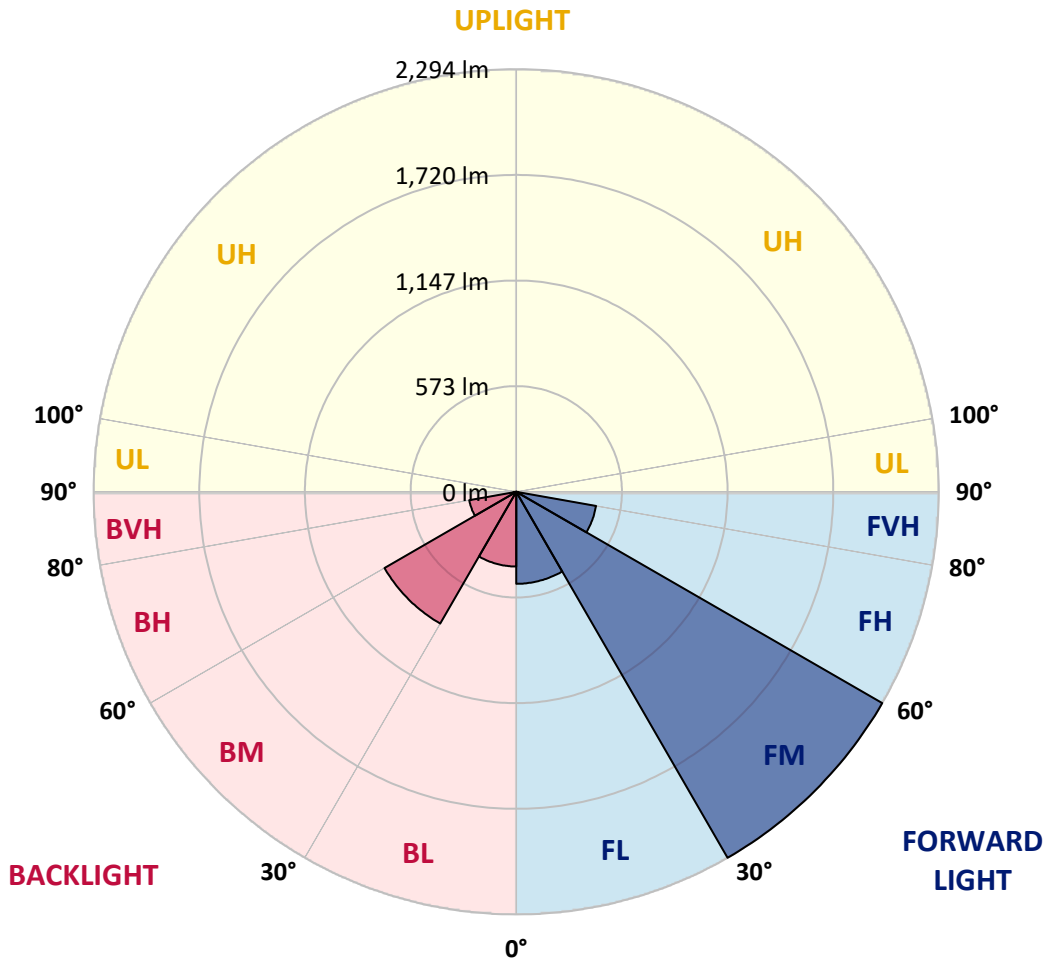
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	499.3	10.5			
FM (30°-60°)	2293.8	48.3			
FH (60°-80°)	439.9	9.3			G0/660
FVH (80°-90°)	11.0	0.2			G1/100
BL (0°-30°)	405.2	8.5	B1/500		
BM (30°-60°)	825.9	17.4	B1/1000		
BH (60°-80°)	258.9	5.5	B1/500		G1/500
BVH (80°-90°)	14.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	953.9	953.9	953.9	953.9	953.9	953.9	953.9	953.9	953.9	953.9	953.9
2.5°	950.2	948.4	947.3	956.9	953.3	953.9	950.2	953.9	956.4	950.9	958.8
5°	948.4	953.9	949.1	952.1	960.0	957.5	960.0	967.2	965.4	963.6	961.2
7.5°	965.4	966.0	969.7	970.8	973.3	970.8	974.5	981.2	979.4	969.0	970.3
10°	989.6	990.9	991.4	998.1	1002.4	1002.9	998.7	992.7	992.1	1006.0	996.3
12.5°	1017.5	1014.5	1021.7	1024.2	1029.0	1034.5	1039.9	1027.2	1035.0	1035.7	1024.2
15°	1058.1	1061.1	1052.7	1052.7	1054.5	1055.0	1070.2	1064.2	1062.9	1056.3	1061.1
17.5°	1118.7	1098.1	1097.5	1089.0	1087.7	1092.6	1098.1	1102.9	1119.2	1105.9	1079.9
20°	1162.8	1167.7	1150.1	1139.8	1141.7	1152.6	1147.1	1168.9	1180.5	1158.6	1133.2
22.5°	1241.0	1224.6	1228.8	1205.9	1207.7	1219.2	1218.6	1241.0	1247.6	1213.1	1176.2
25°	1293.7	1289.4	1293.0	1274.9	1277.3	1286.4	1301.0	1337.9	1327.0	1288.8	1203.5
27.5°	1370.6	1362.1	1359.1	1352.4	1350.0	1374.2	1391.2	1430.5	1422.7	1367.0	1251.9
30°	1449.3	1443.9	1446.9	1419.7	1429.4	1480.8	1485.7	1539.6	1535.9	1437.8	1305.8
32.5°	1503.8	1506.9	1512.3	1497.2	1540.2	1581.3	1597.7	1658.9	1661.9	1559.6	1409.9
35°	1591.7	1581.3	1584.4	1601.9	1622.0	1697.1	1723.7	1764.3	1789.7	1687.4	1509.9
37.5°	1646.8	1657.7	1644.9	1672.8	1724.9	1815.2	1839.3	1881.2	1907.8	1813.3	1646.2
40°	1732.8	1715.2	1724.3	1744.3	1797.6	1915.1	1908.4	1951.4	1959.9	1920.5	1773.3
42.5°	1825.5	1817.0	1804.3	1849.7	1894.5	1979.9	1993.2	1973.2	2016.2	2025.3	1955.1
45°	1936.3	1946.6	1948.4	1949.6	1989.0	2063.4	2045.3	2027.7	2077.4	2143.4	2067.7
47.5°	2039.2	2006.5	2030.2	2062.9	2118.6	2119.2	2140.4	2098.6	2151.3	2210.0	2169.5
50°	2073.8	2058.0	2089.5	2151.3	2237.3	2246.3	2248.8	2189.4	2216.7	2263.3	2204.6
52.5°	2060.5	2055.0	2135.6	2231.2	2357.2	2403.3	2415.3	2342.1	2357.2	2336.0	2282.1
55°	1996.9	2013.2	2094.4	2289.4	2482.6	2624.9	2647.9	2555.2	2458.9	2475.3	2415.9
56°	1909.7	1881.2	1972.0	2223.3	2477.1	2697.0	2715.8	2600.1	2534.6	2513.5	2414.8
57.5°	1620.1	1583.1	1702.5	2000.5	2339.7	2669.7	2683.7	2618.8	2522.0	2479.0	2238.5
60°	948.4	966.6	1118.0	1379.6	1804.9	2188.9	2235.5	2282.7	2217.9	2025.3	1666.1
62.5°	457.9	446.4	554.8	791.0	1099.9	1397.3	1383.3	1516.0	1588.6	1439.1	1052.0
65°	239.8	238.7	302.9	431.8	604.5	734.1	746.7	818.2	918.1	741.3	534.2
67.5°	176.3	181.1	213.2	303.4	388.8	396.7	394.9	430.6	440.3	372.5	328.2
70°	138.1	140.5	164.1	230.8	289.5	259.3	253.8	258.0	286.5	298.6	284.1
72.5°	99.9	102.3	122.3	155.7	181.1	176.9	180.5	204.1	239.2	252.0	236.8
75°	66.6	68.4	79.3	95.1	107.2	115.6	122.3	149.6	182.3	189.6	182.3
77.5°	46.0	47.8	55.1	67.3	68.4	73.9	76.3	89.0	109.0	118.1	113.2
80°	26.1	26.1	29.7	34.5	42.4	49.6	50.9	61.2	70.2	76.3	77.5
82.5°	12.1	12.7	15.7	21.2	27.9	34.5	35.7	42.4	49.1	55.1	56.9
85°	6.0	6.7	9.1	12.7	17.0	20.6	20.0	20.6	21.8	20.6	21.2
87.5°	1.8	1.8	2.4	3.1	2.4	3.1	3.1	3.6	4.2	4.9	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	953.9	953.9	953.9	953.9	953.9	953.9	953.9	953.9	953.9	953.9	953.9
2.5°	959.3	961.2	949.1	960.6	956.4	955.7	964.2	963.0	966.0	964.8	957.5
5°	960.0	955.7	968.4	956.9	962.4	973.9	966.0	984.2	975.1	981.2	967.9
7.5°	978.8	979.9	977.5	982.4	979.9	985.4	981.2	985.4	978.1	978.8	990.9
10°	995.1	991.4	995.7	989.6	993.9	992.1	982.4	979.4	981.8	978.8	986.6
12.5°	1025.3	1018.7	1015.7	1008.4	1003.6	985.4	970.3	961.8	973.3	975.1	971.5
15°	1056.3	1056.9	1043.0	1026.6	996.3	969.0	972.7	975.7	975.7	980.6	971.5
17.5°	1075.6	1075.6	1062.9	1030.2	999.3	983.6	979.9	970.3	961.8	960.6	960.0
20°	1109.6	1099.3	1070.2	1029.6	998.1	990.9	963.6	940.6	923.0	917.0	916.3
22.5°	1148.3	1122.3	1081.7	1030.8	996.3	986.0	935.1	900.6	869.1	855.8	857.6
25°	1184.1	1142.2	1088.4	1025.3	989.6	940.0	883.1	835.2	802.5	791.6	786.1
27.5°	1208.9	1163.5	1088.4	1030.2	964.8	888.5	830.4	769.2	740.7	733.4	734.7
30°	1242.2	1190.1	1107.2	1019.9	915.2	821.8	752.2	712.2	695.3	689.3	693.5
32.5°	1320.3	1259.8	1133.2	995.1	856.4	755.3	698.9	676.5	651.7	639.6	635.3
35°	1405.1	1325.8	1158.6	953.3	790.4	694.7	659.5	639.0	609.3	595.9	598.4
37.5°	1525.0	1410.6	1160.4	884.2	719.0	660.8	628.7	596.6	572.4	551.8	545.7
40°	1686.7	1526.2	1156.2	811.6	661.4	620.8	597.2	557.2	529.9	515.4	518.4
42.5°	1829.1	1661.9	1138.6	729.2	609.3	593.5	566.9	527.5	500.9	485.8	484.5
45°	1949.0	1761.8	1105.4	659.0	565.7	563.3	532.4	502.1	480.9	467.0	473.0
47.5°	2059.8	1842.4	1055.0	588.7	525.7	530.6	500.9	482.1	468.8	456.1	455.5
50°	2099.8	1841.2	1010.9	530.6	493.6	491.2	490.0	470.0	456.1	445.1	450.0
52.5°	2166.4	1861.8	963.0	490.5	464.6	465.2	469.4	454.8	439.1	432.5	438.5
55°	2262.2	1864.8	857.6	444.0	440.3	444.6	444.6	434.9	421.6	416.1	413.0
56°	2184.0	1774.6	769.2	431.8	428.2	428.2	439.7	428.8	412.5	408.2	404.6
57.5°	2014.4	1554.7	643.8	417.3	411.9	420.3	426.3	414.9	399.7	393.7	397.3
60°	1389.4	1052.0	483.9	385.8	385.8	399.7	404.6	387.6	380.9	380.4	375.5
62.5°	811.0	612.9	378.5	357.4	358.5	370.0	373.7	364.0	355.5	365.8	370.7
65°	430.0	365.8	324.6	327.1	327.7	336.8	352.5	351.9	351.3	354.3	354.9
67.5°	311.3	304.0	295.0	292.5	293.8	300.4	316.2	328.2	327.7	320.4	314.9
70°	277.4	267.1	261.7	262.2	257.4	265.3	278.0	285.9	271.9	263.5	259.8
72.5°	230.8	227.7	224.1	224.7	215.0	213.2	198.6	198.6	195.0	192.6	196.8
75°	176.3	175.0	176.9	173.8	163.5	152.6	144.2	136.2	124.2	119.3	116.9
77.5°	111.4	115.1	119.3	112.7	108.4	100.5	92.1	84.2	74.5	69.1	69.1
80°	75.7	78.8	81.7	80.6	75.7	68.4	61.8	53.3	46.7	42.4	41.8
82.5°	57.6	60.0	64.2	59.4	54.5	48.5	43.0	37.0	30.9	26.1	26.1
85°	20.6	23.6	26.1	28.5	30.3	30.9	26.6	21.8	17.5	13.9	13.3
87.5°	5.5	6.0	6.7	6.0	6.0	6.0	6.7	6.0	5.5	4.2	4.2
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)