

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: P647247

Luminaire Tested: **GALN-SA1D-835-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647247
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1D-835-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6271.8 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

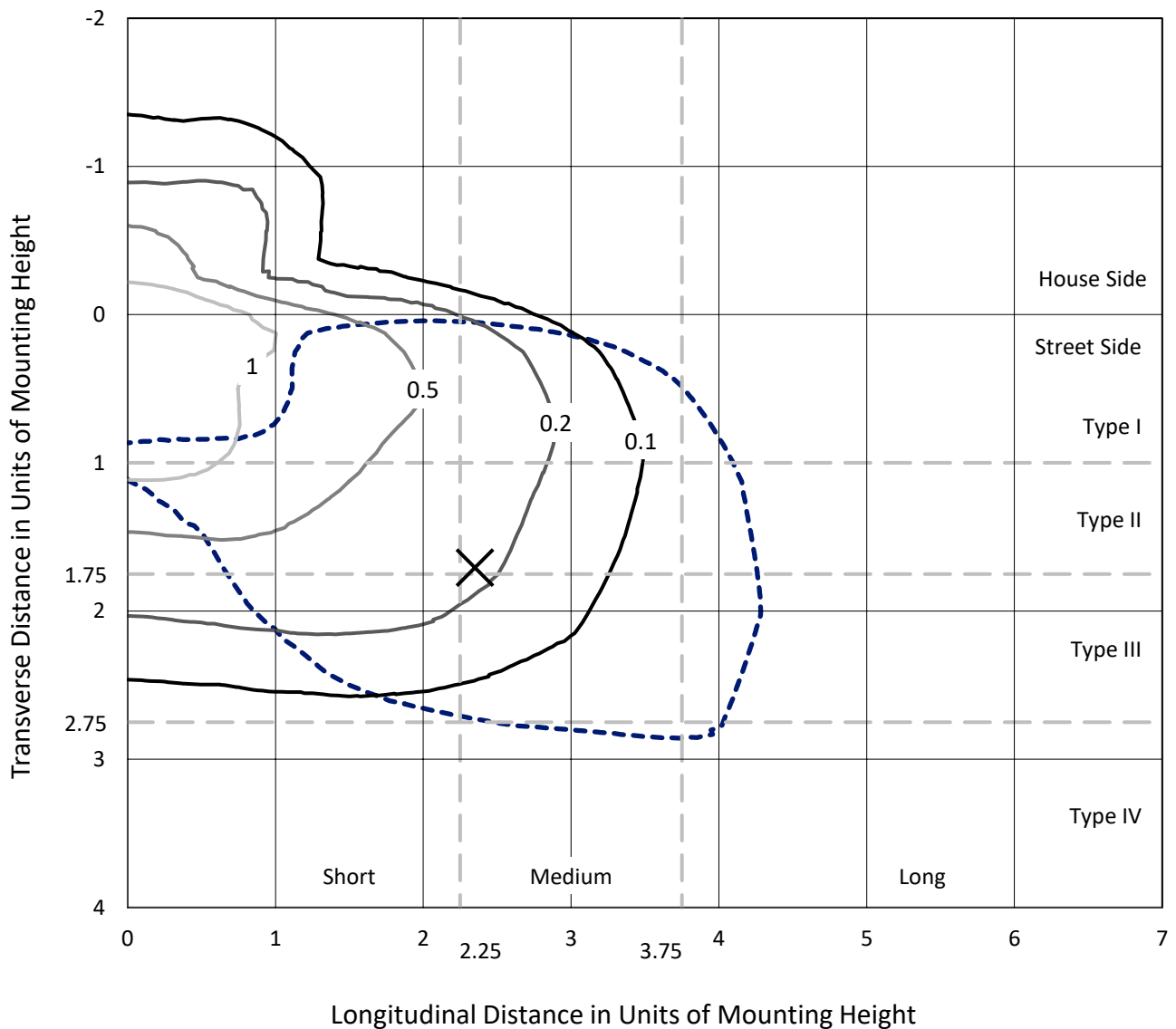
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

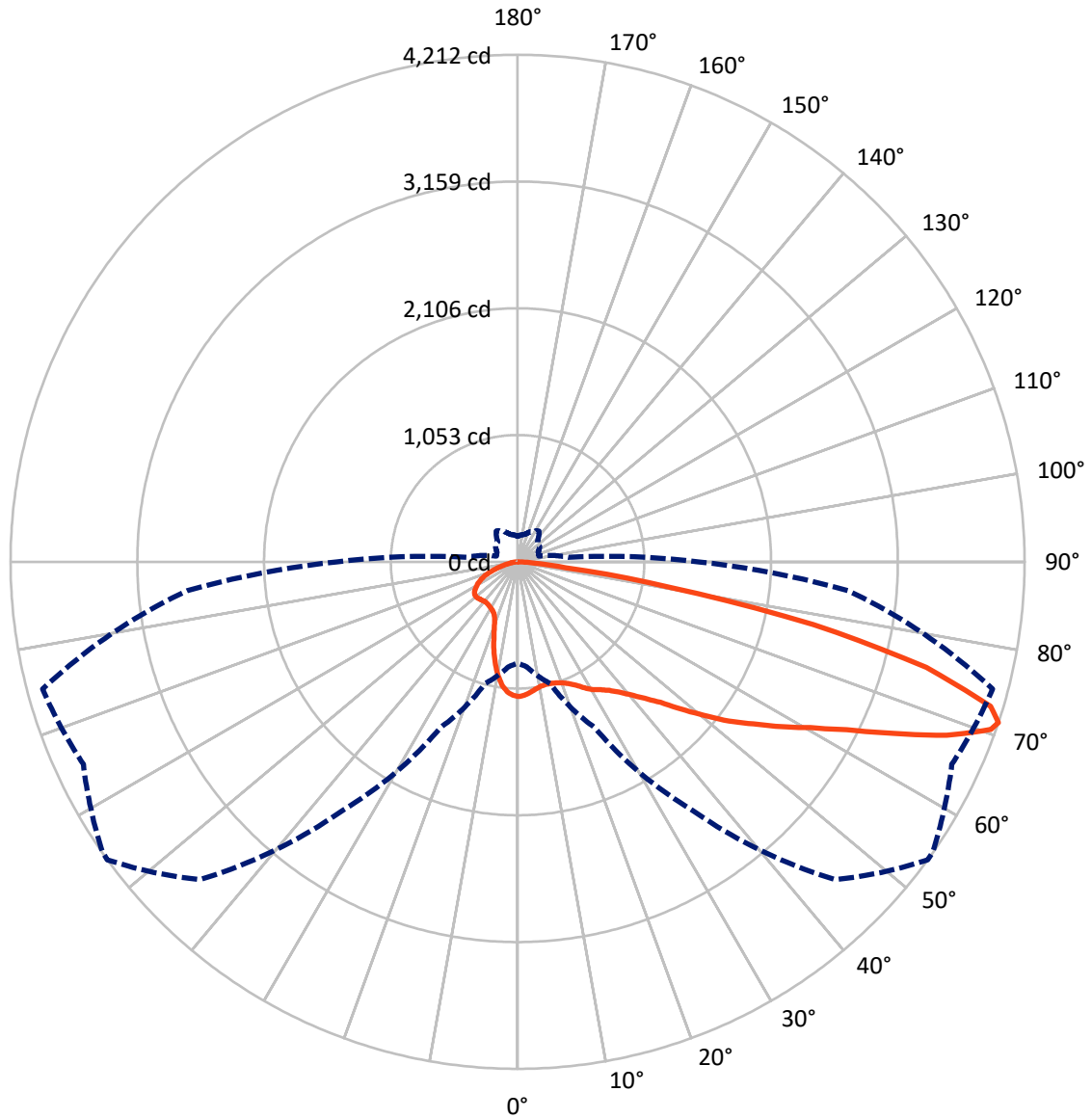
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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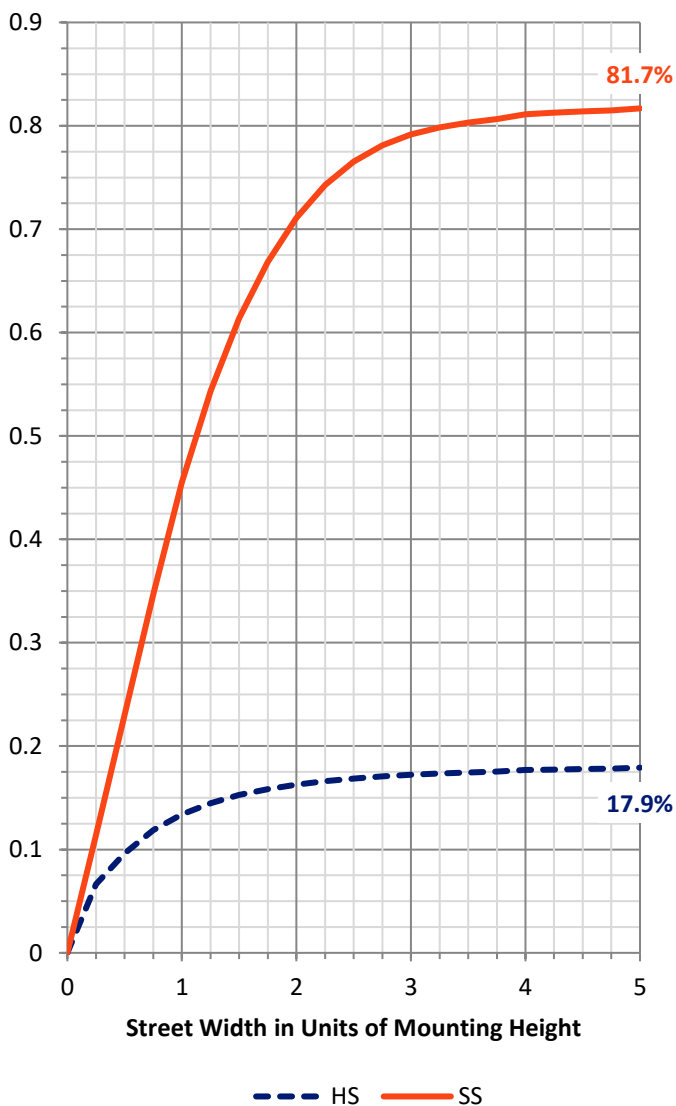
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1132.3	0.0	1132.3
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	5139.5	0.0	5139.5
	% Fixture	81.9	0.0	81.9
Total	Lumens	6271.8	0.0	6271.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.7	1.6
10°-20°	263.3	4.2
20°-30°	438.4	7.0
30°-40°	648.3	10.3
40°-50°	913.1	14.6
50°-60°	1222.7	19.5
60°-70°	1541.1	24.6
70°-80°	1052.6	16.8
80°-90°	92.6	1.5
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°	6271.8	100.0
0°-180°	6271.8	100.0

Coefficient of Utilization

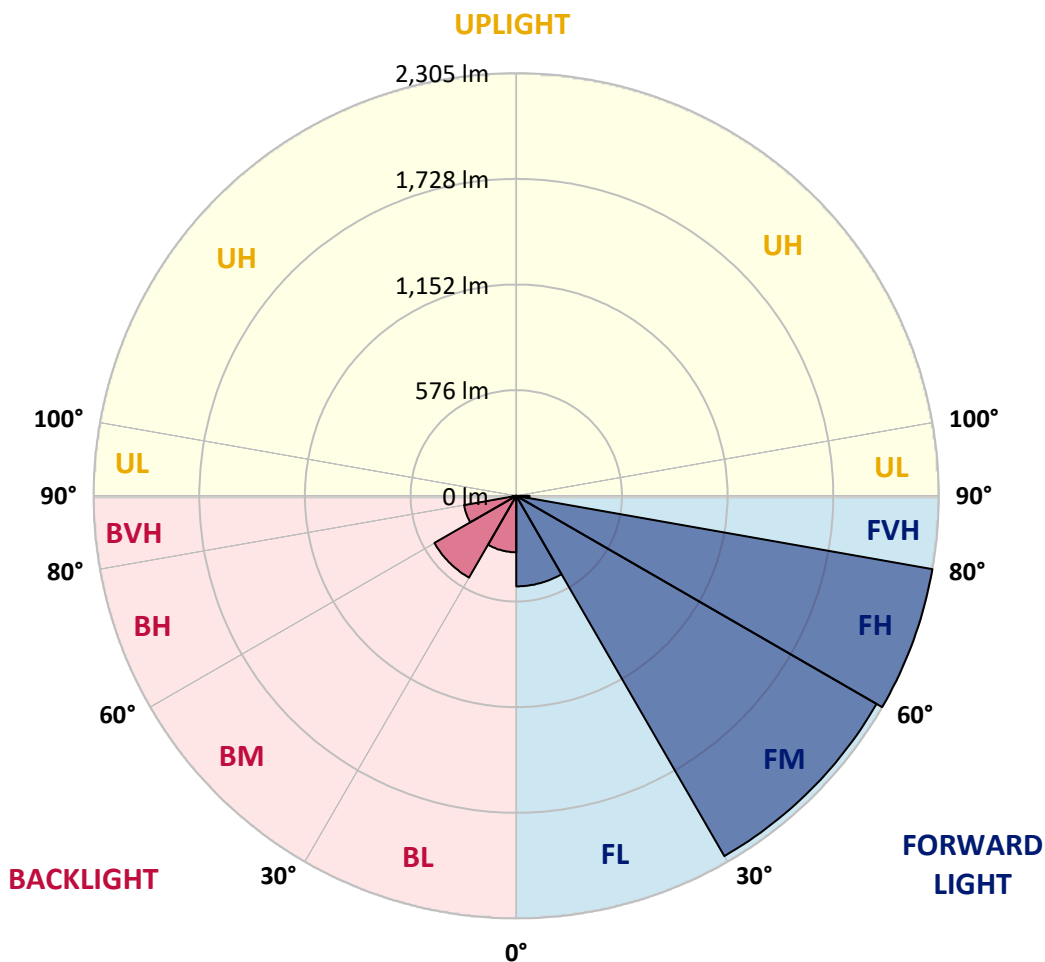


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	493.7	7.9			
FM (30°-60°)	2268.9	36.2			
FH (60°-80°)	2304.5	36.7			G2/5000
FVH (80°-90°)	72.4	1.2			G1/100
BL (0°-30°)	307.8	4.9	B1/500		
BM (30°-60°)	515.2	8.2	B1/1000		
BH (60°-80°)	289.2	4.6	B1/500		G1/500
BVH (80°-90°)	20.2	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-G2
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1119.0	1119.0	1119.0	1119.0	1119.0	1119.0	1119.0	1119.0	1119.0	1119.0	1119.0
2.5°	1081.0	1086.1	1087.5	1090.9	1098.0	1103.7	1109.5	1108.8	1116.9	1120.3	1123.4
5°	1032.9	1034.3	1039.4	1046.2	1058.7	1074.6	1090.2	1090.6	1110.5	1126.4	1134.3
7.5°	997.7	1002.1	1005.5	1012.6	1025.8	1043.1	1067.9	1069.9	1105.4	1136.9	1153.5
10°	974.7	979.8	983.4	992.3	1005.5	1024.8	1051.6	1055.3	1101.7	1153.5	1182.6
12.5°	953.7	958.8	962.2	973.7	991.0	1014.6	1044.8	1049.2	1103.1	1172.9	1214.5
15°	966.5	970.6	969.3	972.6	984.2	1011.2	1047.5	1051.9	1108.2	1191.5	1246.1
17.5°	1023.8	1027.1	1016.0	1003.1	997.7	1017.7	1056.0	1060.7	1118.3	1210.8	1278.2
20°	1108.2	1117.3	1092.9	1064.1	1038.0	1040.8	1073.6	1078.7	1132.5	1230.1	1311.1
22.5°	1217.9	1224.7	1194.9	1147.4	1099.3	1074.6	1100.0	1103.1	1153.9	1255.1	1347.0
25°	1347.0	1351.1	1309.7	1248.7	1179.3	1132.5	1136.3	1141.7	1189.1	1283.7	1378.9
27.5°	1472.4	1485.2	1437.4	1362.9	1271.4	1193.5	1186.1	1189.5	1227.4	1299.5	1400.9
30°	1621.0	1620.0	1569.6	1483.2	1365.9	1259.9	1233.1	1232.4	1248.0	1307.4	1416.8
32.5°	1739.7	1753.5	1704.0	1609.8	1474.0	1328.7	1265.6	1264.3	1264.0	1320.9	1440.5
35°	1874.5	1876.5	1831.1	1736.2	1590.9	1415.1	1311.1	1304.3	1296.5	1350.0	1472.7
37.5°	1995.1	2004.6	1962.9	1856.5	1705.8	1504.8	1373.4	1369.0	1345.3	1400.5	1524.2
40°	2089.3	2096.3	2071.3	1970.0	1818.9	1601.8	1452.7	1444.6	1415.7	1483.2	1592.9
42.5°	2120.1	2134.6	2144.5	2094.7	1949.0	1716.6	1550.3	1540.1	1518.1	1608.5	1672.2
45°	2122.5	2145.5	2197.3	2199.7	2079.7	1854.1	1664.1	1657.0	1655.3	1769.1	1783.7
47.5°	2104.5	2127.9	2215.0	2262.0	2196.3	1993.0	1828.4	1817.2	1818.2	1967.6	1908.7
50°	2061.2	2088.9	2194.6	2302.0	2287.5	2137.4	2001.8	1998.1	2019.1	2194.3	2038.5
52.5°	1979.5	2013.0	2173.6	2327.1	2355.2	2261.7	2199.0	2188.5	2241.7	2440.2	2180.4
55°	1753.5	1804.0	2096.7	2340.9	2419.5	2380.6	2376.6	2395.5	2466.0	2708.6	2336.6
57.5°	1635.6	1673.6	1929.7	2343.4	2500.9	2518.8	2583.9	2588.6	2711.9	2993.5	2513.0
60°	1571.2	1604.8	1838.2	2327.8	2614.4	2689.9	2795.9	2812.8	2952.1	3302.1	2696.0
62.5°	1515.0	1543.8	1783.4	2273.9	2742.4	2943.7	3070.7	3078.8	3224.9	3642.9	2876.6
65°	1382.5	1415.4	1672.9	2220.0	2852.9	3260.7	3435.3	3425.7	3515.2	3936.9	2989.7
67.5°	1204.0	1245.7	1466.6	2034.0	2907.4	3607.3	3845.8	3834.0	3801.8	4129.7	3022.2
70°	976.0	998.4	1202.7	1712.5	2689.6	3789.3	4170.0	4157.5	3979.3	4155.1	2868.4
71°	839.8	874.7	1047.2	1521.1	2508.3	3733.7	4211.7	4208.3	3979.7	4085.0	2752.6
72.5°	655.5	676.9	829.4	1178.6	2132.0	3418.0	4108.7	4121.6	3893.2	3890.2	2513.7
75°	414.7	424.2	520.4	693.8	1169.8	2420.6	3507.4	3542.3	3456.9	3184.1	1869.4
77.5°	240.9	253.1	311.7	408.9	505.4	1313.8	2509.7	2547.6	2401.9	1753.2	765.3
80°	140.2	153.8	205.3	237.5	232.1	487.5	1277.9	1342.6	1040.1	442.8	214.8
82.5°	77.9	87.1	144.3	144.6	123.6	159.3	402.1	420.8	296.8	178.5	87.8
85°	56.6	64.0	93.2	84.3	59.3	68.4	139.9	146.7	120.0	75.2	28.4
87.5°	20.0	28.4	51.1	40.6	16.3	14.3	40.3	32.9	30.5	21.0	6.4
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°	1119.0	1119.0	1119.0	1119.0	1119.0	1119.0	1119.0	1119.0	1119.0	1119.0	1119.0
2.5°	1125.1	1125.8	1122.4	1116.2	1110.2	1102.4	1093.6	1086.8	1083.8	1083.4	1083.0
5°	1137.3	1139.0	1126.1	1107.2	1086.1	1060.4	1038.3	1013.3	1006.9	996.7	999.7
7.5°	1157.0	1155.9	1130.5	1090.2	1041.1	986.5	940.5	913.7	885.9	878.1	878.4
10°	1185.1	1178.6	1130.5	1055.6	973.7	892.7	828.3	787.7	765.6	747.4	740.6
12.5°	1214.8	1198.6	1119.7	1007.2	886.9	787.7	718.6	663.7	649.4	634.5	634.9
15°	1243.3	1216.2	1098.3	939.1	793.4	675.5	608.5	575.6	571.2	572.8	572.5
17.5°	1269.1	1228.8	1065.8	863.2	684.3	579.3	543.7	546.1	558.0	566.4	567.4
20°	1295.2	1236.2	1017.4	761.5	581.4	521.0	522.4	541.1	559.0	570.5	572.2
22.5°	1319.9	1239.6	960.4	663.4	506.8	496.3	516.3	536.3	553.9	565.1	566.8
25°	1336.1	1231.8	879.8	560.7	470.2	487.5	508.5	525.5	540.3	551.9	554.6
27.5°	1340.6	1206.8	779.9	477.7	453.3	479.0	498.4	510.9	522.4	533.2	535.3
30°	1338.1	1169.8	670.1	428.9	443.5	469.2	484.1	493.3	507.1	515.6	517.3
32.5°	1334.5	1126.8	555.6	402.8	435.3	460.1	468.9	477.0	476.7	473.2	475.7
35°	1335.8	1075.3	462.8	387.2	428.2	453.3	460.7	450.5	421.4	420.1	418.7
37.5°	1342.9	1024.5	395.3	376.4	424.5	452.3	456.3	409.6	383.8	372.0	368.9
40°	1361.2	965.2	350.9	368.2	424.2	460.1	436.4	388.9	339.4	316.4	314.7
42.5°	1385.6	906.9	323.8	363.2	428.2	471.9	428.2	359.8	305.9	292.4	290.3
45°	1421.8	840.2	309.0	360.8	434.3	476.3	425.5	338.4	292.4	281.5	281.5
47.5°	1462.9	776.5	300.8	359.1	442.1	473.2	401.4	331.7	286.0	287.3	293.7
50°	1503.5	721.3	294.7	355.4	448.9	471.6	391.7	331.3	287.6	304.9	316.4
52.5°	1550.6	682.3	287.3	349.3	448.9	460.7	388.6	338.1	292.4	297.5	302.6
55°	1607.5	670.1	277.8	336.1	440.8	433.6	386.9	348.0	295.7	283.9	286.0
57.5°	1682.7	689.7	268.6	319.5	422.1	405.5	386.2	350.6	288.0	278.1	276.1
60°	1770.1	728.7	265.9	302.6	396.7	381.5	382.1	342.9	277.1	266.9	268.6
62.5°	1831.4	752.1	264.3	289.6	368.9	355.0	372.3	333.3	272.4	263.6	265.3
65°	1831.4	723.6	248.7	270.0	333.0	323.2	360.5	321.5	266.3	256.1	254.4
67.5°	1762.0	640.7	225.0	240.5	293.4	287.0	343.9	307.2	257.1	249.3	245.3
70°	1581.1	485.8	195.1	206.0	243.3	249.0	322.5	288.0	241.9	232.4	226.3
71°	1501.5	423.1	182.6	188.4	223.9	232.4	312.3	279.8	235.1	221.6	210.7
72.5°	1348.0	356.4	163.6	166.0	191.4	206.6	291.0	264.3	222.2	203.0	190.7
75°	1024.2	260.2	131.8	130.4	141.6	164.0	246.3	235.4	194.8	168.7	161.6
77.5°	442.5	141.6	98.6	99.6	96.2	124.3	193.8	202.2	167.0	137.2	130.8
80°	134.1	81.7	67.4	68.7	64.4	83.3	136.6	158.6	134.1	106.7	97.9
82.5°	68.7	48.8	46.0	45.4	41.0	47.1	82.7	108.4	95.8	66.7	59.0
85°	29.8	26.1	22.7	22.0	19.3	16.9	29.4	54.2	50.8	37.3	35.5
87.5°	7.4	6.8	4.4	4.1	2.3	0.3	0.0	0.0	0.0	0.0	0.0
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)