

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: P651758

Luminaire Tested: **GALN-SA2A-840-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651758
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-SA2A-840-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7669.9 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

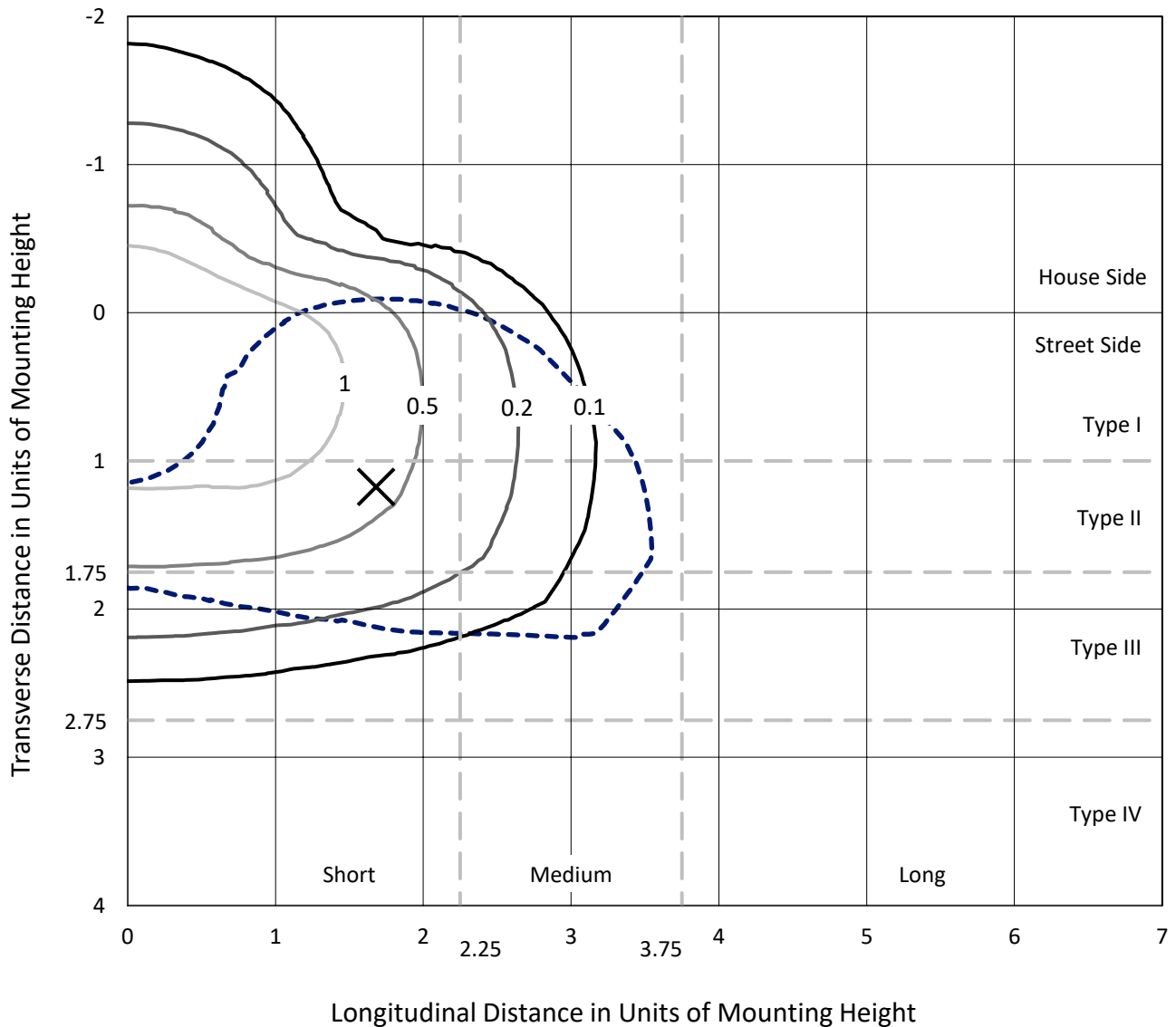
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

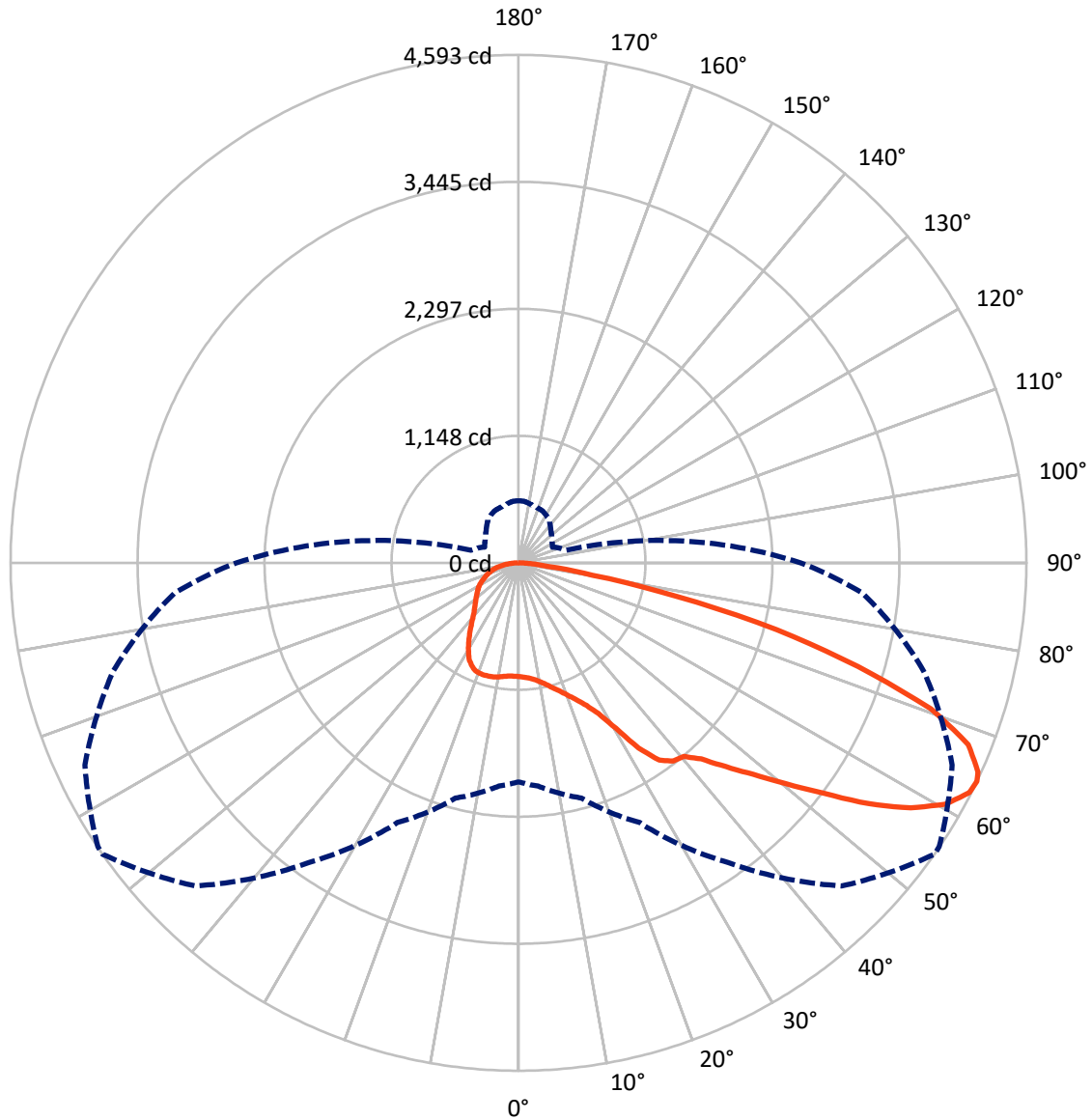
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 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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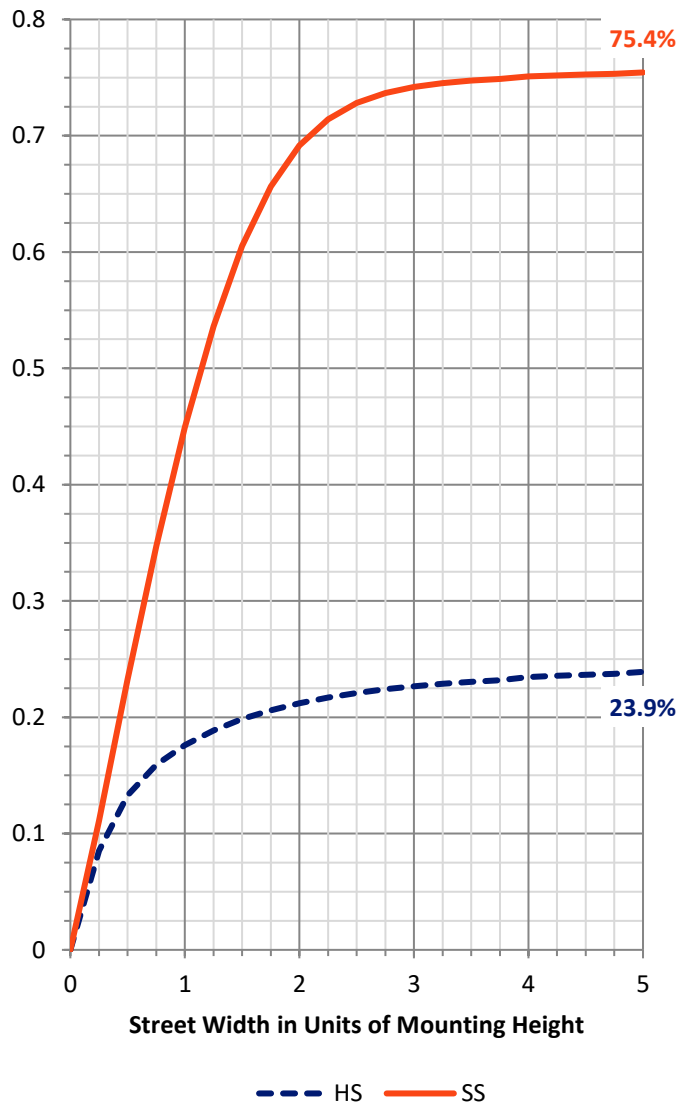
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1863.2	0.0	1863.2
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	5806.7	0.0	5806.7
	% Fixture	75.7	0.0	75.7
Total	Lumens	7669.9	0.0	7669.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.1	1.3
10°-20°	315.9	4.1
20°-30°	562.3	7.3
30°-40°	865.2	11.3
40°-50°	1226.4	16.0
50°-60°	1775.2	23.1
60°-70°	1837.2	24.0
70°-80°	860.3	11.2
80°-90°	127.4	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°	7669.9	100.0
0°-180°	7669.9	100.0

Coefficient of Utilization

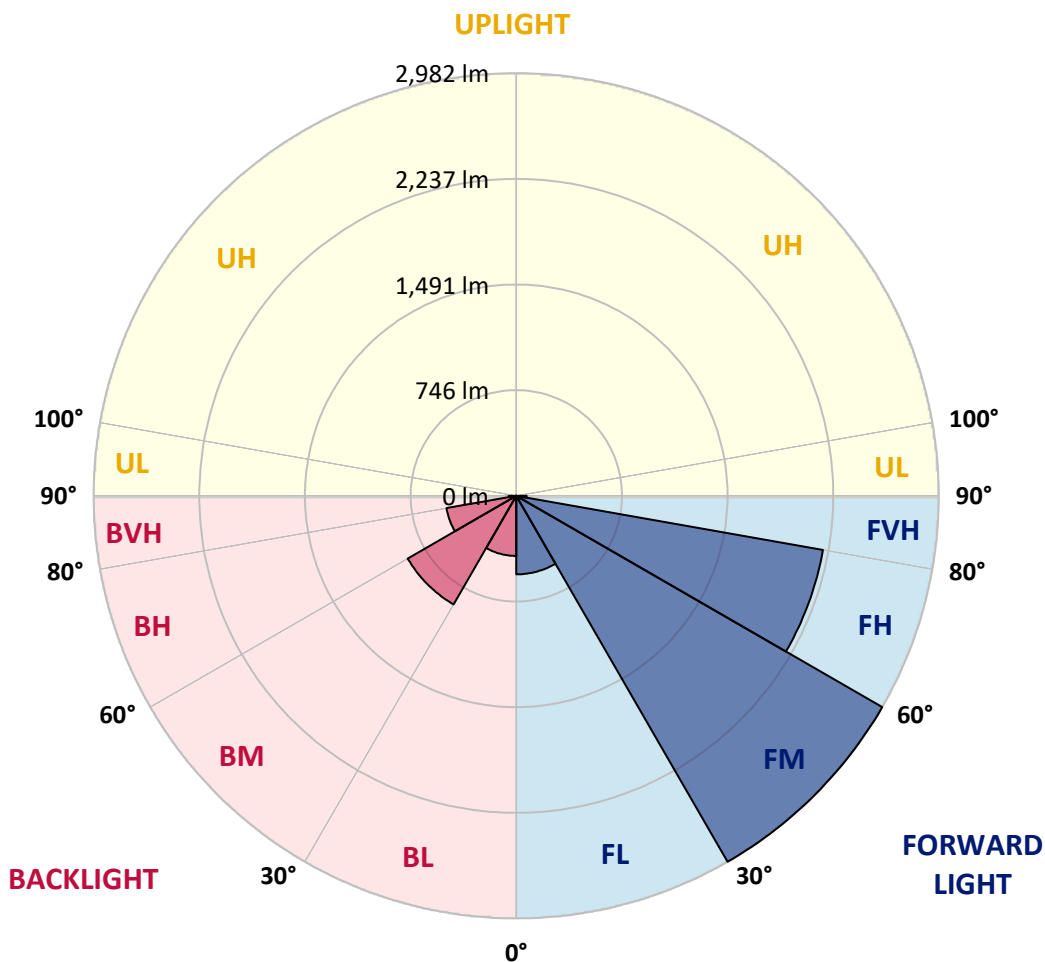


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	553.9	7.2			
FM (30°-60°)	2982.3	38.9			
FH (60°-80°)	2197.7	28.7			G2/5000
FVH (80°-90°)	72.9	1.0			G1/100
BL (0°-30°)	424.4	5.5	B1/500		
BM (30°-60°)	884.5	11.5	B1/1000		
BH (60°-80°)	499.8	6.5	B1/500		G1/500
BVH (80°-90°)	54.4	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°	1029.0	1029.0	1029.0	1029.0	1029.0	1029.0	1029.0	1029.0	1029.0	1029.0	1029.0
2.5°	1040.7	1040.1	1041.5	1040.1	1041.1	1038.0	1036.8	1037.6	1036.4	1034.2	1030.4
5°	1053.4	1053.0	1053.4	1051.8	1052.6	1050.9	1047.9	1048.7	1046.6	1041.9	1036.4
7.5°	1075.2	1073.5	1073.5	1073.1	1071.4	1068.8	1066.7	1065.8	1063.7	1057.7	1049.1
10°	1103.5	1103.5	1103.9	1100.4	1102.6	1097.9	1095.7	1095.3	1088.1	1080.3	1068.4
12.5°	1140.6	1142.8	1141.5	1139.8	1139.0	1137.2	1130.0	1131.6	1123.6	1110.3	1095.7
15°	1186.8	1190.3	1188.1	1187.2	1185.1	1178.7	1175.7	1174.5	1163.8	1144.5	1125.3
17.5°	1248.0	1243.7	1242.0	1239.9	1230.9	1226.2	1221.0	1220.2	1210.8	1188.1	1158.2
20°	1301.4	1307.4	1304.0	1301.9	1292.9	1283.9	1280.0	1278.7	1270.7	1245.9	1197.9
22.5°	1365.1	1366.4	1367.7	1362.6	1358.3	1351.4	1344.6	1342.5	1339.5	1313.8	1255.3
25°	1433.1	1438.2	1433.9	1428.8	1423.6	1423.2	1429.7	1428.8	1427.5	1402.7	1331.3
27.5°	1543.8	1548.5	1549.8	1544.2	1524.6	1526.3	1540.8	1545.5	1565.2	1524.1	1429.3
30°	1606.2	1610.9	1621.6	1642.6	1673.8	1701.2	1736.2	1746.9	1765.7	1688.3	1545.5
32.5°	1644.7	1646.4	1665.7	1704.5	1798.2	1900.4	1995.7	1999.6	2011.5	1902.9	1652.0
35°	1705.5	1706.7	1722.1	1764.8	1874.8	2044.9	2192.4	2197.1	2187.3	1969.6	1701.6
37.5°	1780.2	1783.7	1793.5	1829.0	1960.2	2165.9	2274.1	2270.6	2183.4	2022.7	1789.2
40°	1889.3	1889.3	1877.7	1925.6	2050.4	2235.1	2302.7	2296.7	2273.6	2176.2	1922.6
42.5°	1985.4	1983.8	2011.1	2043.6	2163.3	2342.0	2422.8	2432.7	2470.7	2368.9	2074.4
45°	2110.7	2118.4	2133.8	2192.8	2355.3	2524.6	2628.9	2638.3	2692.2	2596.0	2251.8
47.5°	2237.3	2239.8	2288.2	2366.8	2593.0	2772.1	2857.6	2873.0	2922.2	2861.5	2442.9
50°	2327.0	2351.4	2428.8	2552.8	2838.0	3073.9	3140.6	3159.0	3245.8	3150.5	2665.6
52.5°	2422.0	2445.9	2540.4	2729.4	3119.3	3382.7	3464.8	3477.1	3567.4	3442.9	2893.5
55°	2503.2	2525.4	2632.8	2885.8	3343.3	3697.7	3846.5	3832.0	3875.2	3668.3	3069.2
57.5°	2516.4	2534.4	2669.5	2985.9	3511.8	3967.9	4181.3	4189.9	4139.8	3836.6	3214.2
60°	2413.8	2450.6	2605.8	2975.2	3587.5	4156.1	4431.0	4436.9	4295.0	3923.0	3271.9
62.5°	2232.2	2228.3	2416.0	2803.3	3481.4	4198.8	4578.0	4571.6	4355.7	3881.6	3215.9
64°	1981.2	2027.4	2202.7	2592.1	3310.4	4132.9	4593.4	4590.0	4326.6	3795.2	3120.5
65°	1828.2	1825.6	1998.7	2419.4	3140.2	4033.8	4566.0	4561.3	4265.9	3717.8	3046.6
67.5°	1319.8	1325.8	1496.8	1867.0	2552.8	3646.0	4387.7	4370.3	4026.5	3461.3	2765.3
70°	799.5	802.9	937.1	1238.5	1832.4	2947.5	3955.1	3956.0	3660.1	3078.2	2353.5
72.5°	421.1	430.1	484.0	703.3	1112.9	2067.9	3208.7	3284.7	3142.4	2627.2	1859.4
75°	234.3	235.6	273.7	346.7	567.8	1157.3	2411.7	2433.5	2487.8	2114.6	1375.0
77.5°	178.7	181.2	193.3	224.0	309.1	536.6	1459.6	1569.1	1753.3	1490.8	784.5
80°	144.9	147.5	157.8	176.1	205.6	254.4	678.1	737.1	938.5	661.8	306.1
82.5°	112.9	111.2	124.4	136.4	149.6	150.5	278.3	307.8	382.2	284.8	132.5
85°	83.8	83.8	94.4	91.9	96.6	88.1	122.7	135.6	153.1	121.0	61.6
87.5°	33.4	36.8	62.0	55.6	43.1	34.6	45.3	47.9	53.0	47.4	25.7
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°	1029.0	1029.0	1029.0	1029.0	1029.0	1029.0	1029.0	1029.0	1029.0	1029.0	1029.0
2.5°	1030.8	1032.1	1029.0	1026.9	1026.1	1024.8	1023.5	1023.9	1025.7	1027.4	1026.9
5°	1035.9	1036.4	1031.2	1028.6	1026.9	1025.3	1025.3	1026.5	1029.9	1032.5	1032.5
7.5°	1048.7	1048.7	1041.5	1036.8	1034.2	1031.2	1030.4	1030.8	1033.3	1036.8	1037.2
10°	1068.8	1067.1	1057.7	1050.4	1045.8	1038.5	1032.1	1028.6	1029.9	1032.1	1032.1
12.5°	1093.2	1088.5	1076.6	1066.7	1055.1	1041.5	1028.2	1021.4	1021.0	1023.1	1022.2
15°	1119.3	1114.2	1097.5	1079.5	1059.4	1039.3	1023.5	1013.7	1006.0	1003.8	1008.5
17.5°	1149.6	1139.0	1115.8	1091.0	1061.2	1035.0	1010.3	990.2	976.5	972.6	973.9
20°	1186.4	1172.3	1141.1	1102.2	1059.8	1019.6	981.2	954.3	932.0	925.2	926.0
22.5°	1237.3	1212.9	1167.1	1107.8	1049.1	990.6	937.1	902.1	875.1	864.5	870.9
25°	1295.0	1268.5	1191.9	1106.4	1021.4	944.0	885.0	839.2	814.8	799.0	802.5
27.5°	1374.5	1327.5	1218.4	1094.9	981.6	887.2	818.7	775.6	753.3	745.2	749.1
30°	1476.3	1404.0	1247.1	1063.7	918.8	815.3	752.0	723.8	710.6	700.3	703.7
32.5°	1549.8	1457.9	1253.5	1011.1	850.8	749.9	706.7	685.8	671.2	661.4	663.5
35°	1602.4	1503.6	1250.6	946.5	779.9	696.0	670.8	653.7	630.2	608.8	604.9
37.5°	1672.9	1560.9	1228.7	876.0	709.7	659.7	641.8	610.1	576.3	547.7	546.4
40°	1781.1	1628.0	1182.1	793.1	649.8	632.8	611.0	569.9	533.5	510.5	508.8
42.5°	1892.7	1690.1	1118.9	705.9	600.6	604.5	578.0	537.4	515.2	500.2	498.5
45°	2029.1	1757.2	1050.4	630.2	564.3	578.0	549.3	525.9	512.6	502.7	500.2
47.5°	2176.6	1826.0	973.5	562.2	533.5	553.6	537.4	526.7	519.5	512.6	509.6
50°	2335.6	1902.9	901.2	507.5	505.8	528.4	536.1	532.3	528.0	525.9	523.3
52.5°	2510.0	1981.6	840.5	469.0	481.4	510.5	536.6	539.6	539.6	538.2	536.6
55°	2628.0	2036.3	778.9	437.8	456.6	495.9	535.7	547.2	551.5	549.8	548.1
57.5°	2715.3	2066.3	701.6	410.8	435.6	481.8	531.0	548.1	552.4	554.5	553.6
60°	2733.2	2038.5	600.2	382.7	413.0	461.3	513.9	535.3	540.8	554.1	555.4
62.5°	2652.4	1953.0	499.4	354.8	385.2	430.1	490.8	520.7	531.8	552.4	554.5
64°	2553.2	1857.2	443.4	337.3	367.3	412.6	479.3	516.9	531.4	558.8	560.5
65°	2480.5	1787.5	408.3	326.2	355.7	401.0	472.8	518.1	535.3	568.6	571.2
67.5°	2212.9	1547.7	337.7	300.2	328.3	381.4	474.2	528.8	534.5	572.5	572.0
70°	1831.1	1232.1	283.0	276.2	301.8	365.6	469.0	511.7	512.2	537.4	531.4
72.5°	1371.1	910.6	245.4	251.4	272.3	327.9	443.0	488.7	481.4	484.8	478.9
75°	941.8	602.4	211.2	224.9	241.5	289.9	406.1	443.8	432.3	428.0	423.7
77.5°	502.7	333.0	175.7	198.8	209.9	250.5	354.4	390.7	378.8	362.1	356.6
80°	203.5	156.9	141.5	164.6	171.0	201.8	295.0	317.6	308.6	279.6	270.2
82.5°	102.2	94.0	111.2	129.5	129.9	144.1	219.3	240.7	220.6	185.1	177.0
85°	53.4	55.2	76.5	91.1	80.4	77.8	131.7	145.8	133.8	116.3	104.7
87.5°	19.3	22.2	40.2	39.8	28.3	15.0	29.1	14.1	7.7	4.7	6.0
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)