

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: P651210

Luminaire Tested: **GALN-SA1D-840-U-T4FT**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651210  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1D-840-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD  
THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6568.2 lumens  
Efficiency: N/A  
Efficacy: 101.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

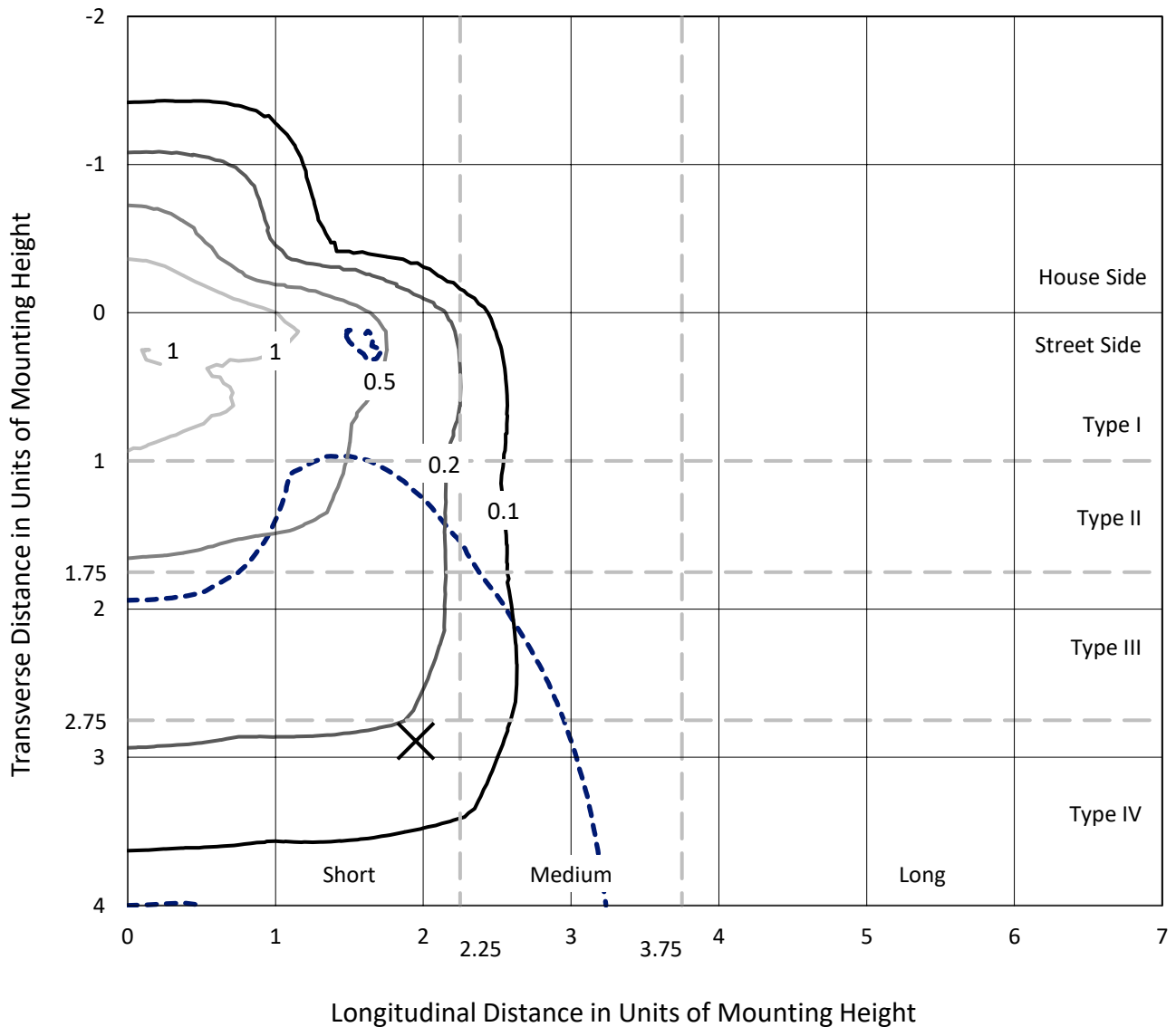
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

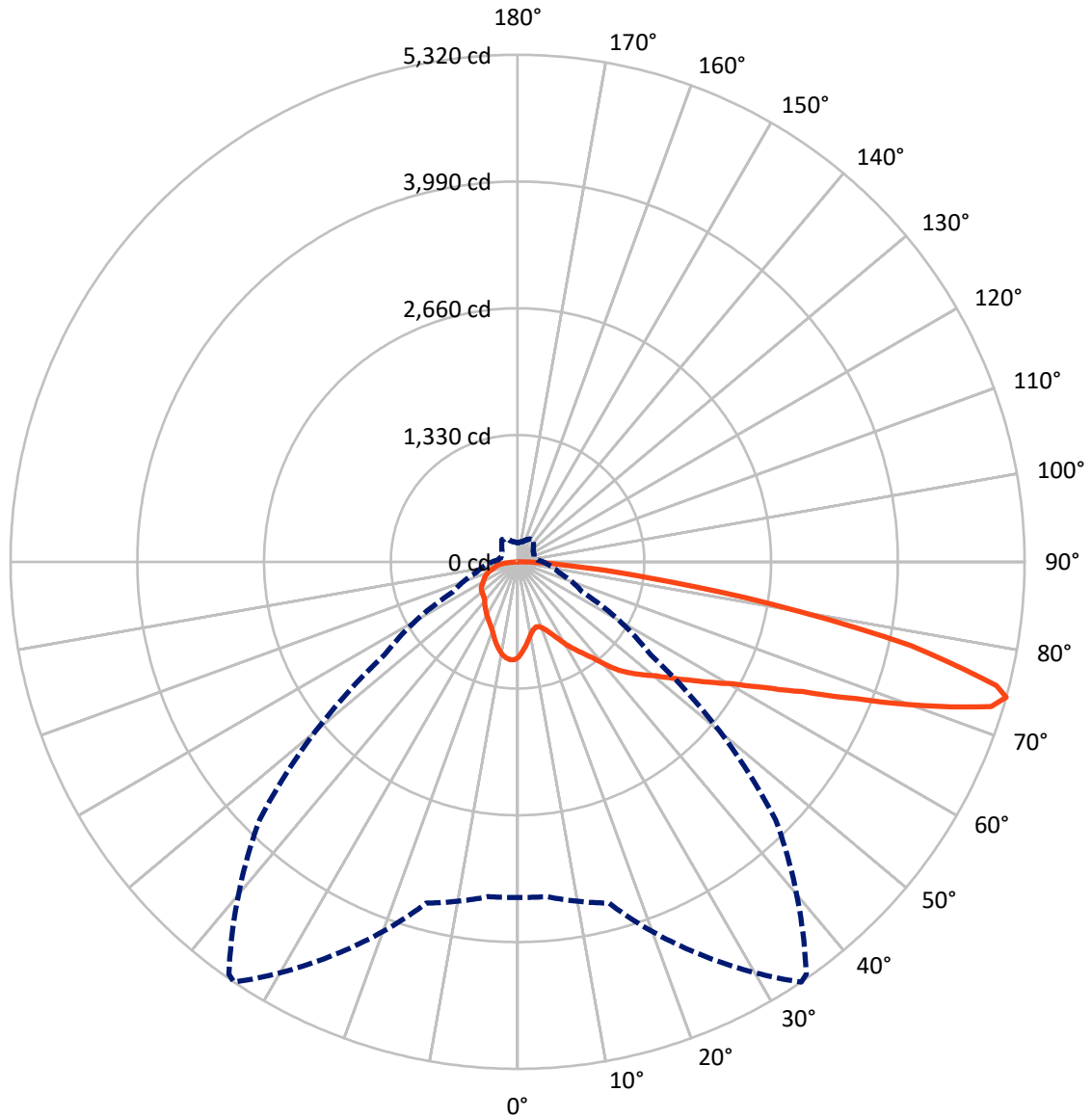
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral      - - - Horizontal Cone Through 74-Deg Vertical

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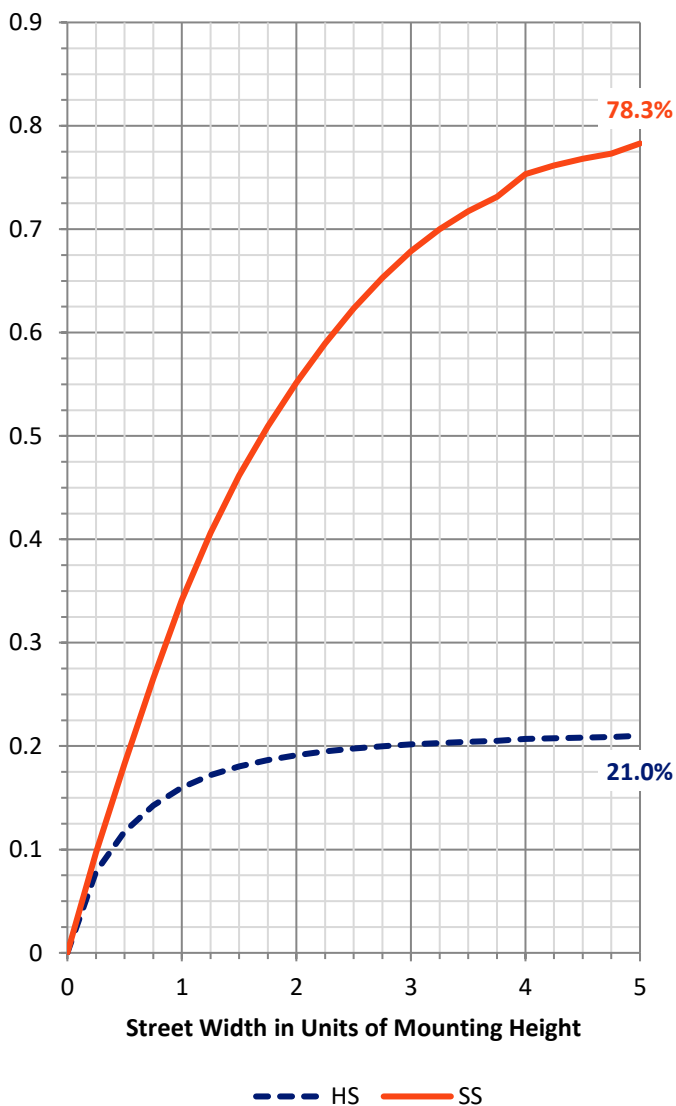
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1397.8	0.0	1397.8
	% Fixture	21.3	0.0	21.3
<b>Street Side</b>	Lumens	5170.4	0.0	5170.4
	% Fixture	78.7	0.0	78.7
<b>Total</b>	Lumens	6568.2	0.0	6568.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.2	1.4
10°-20°	249.7	3.8
20°-30°	411.6	6.3
30°-40°	616.6	9.4
40°-50°	896.3	13.6
50°-60°	1252.0	19.1
60°-70°	1567.4	23.9
70°-80°	1296.1	19.7
80°-90°	187.3	2.9
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°	6568.2	100.0
0°-180°	6568.2	100.0

**Coefficient of Utilization**

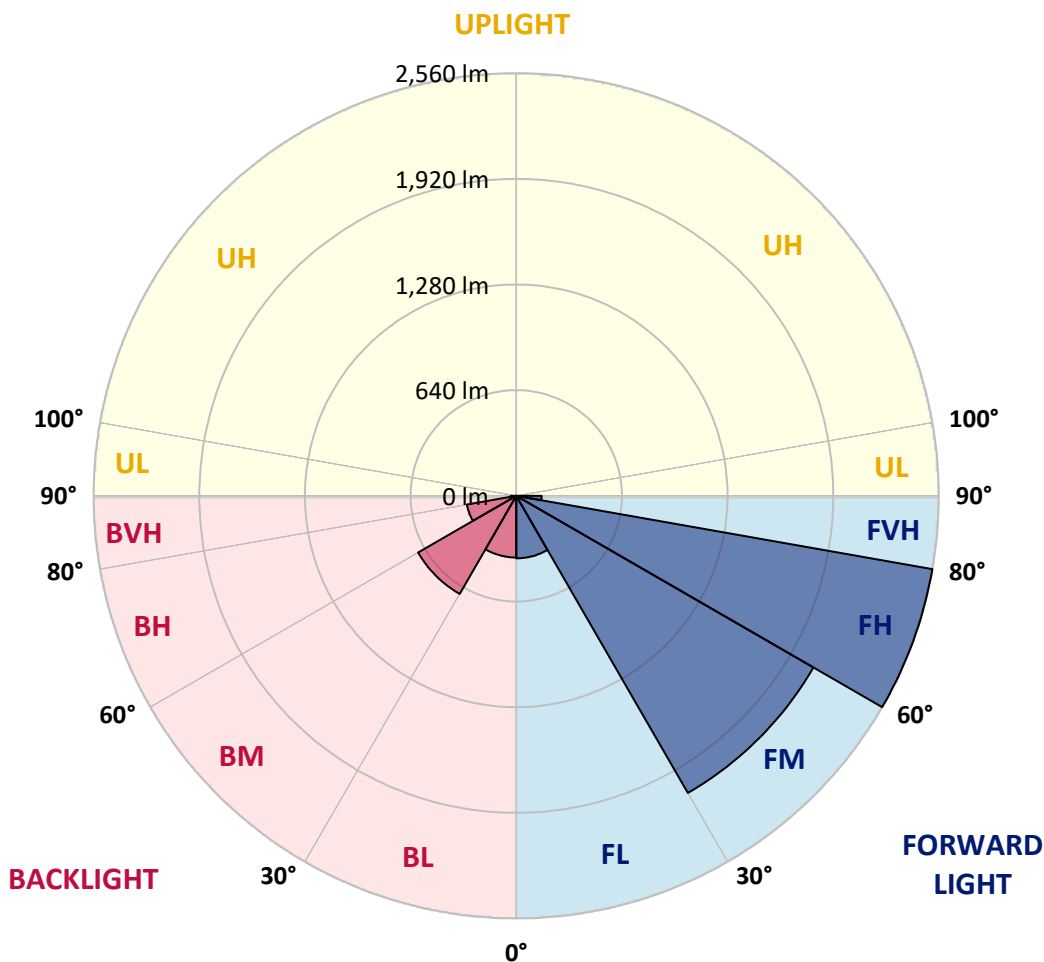


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	378.6	5.8			
FM (30°-60°)	2078.5	31.6			
FH (60°-80°)	2559.9	39.0			G2/5000
FVH (80°-90°)	153.4	2.3			G2/225
BL (0°-30°)	373.9	5.7	B1/500		
BM (30°-60°)	686.4	10.5	B1/1000		
BH (60°-80°)	303.6	4.6	B1/500		G1/500
BVH (80°-90°)	33.9	0.5			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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1002.8	1002.8	1002.8	1002.8	1002.8	1002.8	1002.8	1002.8	1002.8	1002.8	1002.8
2.5°	926.8	931.5	934.1	943.2	945.4	948.2	955.9	966.1	979.2	990.9	1001.0
5°	849.7	856.9	861.3	869.3	884.9	886.4	906.8	930.1	956.6	981.4	1001.7
7.5°	776.5	784.5	788.2	802.7	823.4	826.7	856.6	893.3	937.7	975.1	1006.5
10°	721.6	725.5	733.6	744.5	769.3	771.4	810.4	859.5	916.9	972.3	1014.5
12.5°	691.7	693.9	695.8	707.4	731.8	735.0	775.7	831.4	900.6	974.5	1027.6
15°	696.1	696.9	688.8	691.0	710.6	715.4	755.8	812.9	890.4	979.9	1047.2
17.5°	732.8	730.3	710.6	700.5	714.3	716.4	751.8	805.6	885.7	990.1	1067.6
20°	790.7	787.1	753.2	730.7	738.7	740.5	764.9	811.1	890.4	1006.8	1099.3
22.5°	862.8	861.3	810.0	782.7	782.3	782.3	795.1	830.7	904.6	1029.7	1132.4
25°	963.5	955.9	888.9	853.6	843.9	843.1	841.7	863.1	922.7	1054.1	1171.7
27.5°	1066.9	1053.8	994.1	939.9	918.8	916.3	906.8	909.0	946.0	1081.8	1216.4
30°	1159.7	1151.3	1095.2	1035.2	1010.1	1004.3	978.1	966.1	985.0	1131.6	1287.7
32.5°	1230.6	1225.5	1181.9	1127.3	1090.2	1089.1	1050.8	1041.1	1045.8	1192.0	1369.2
35°	1288.1	1289.9	1267.7	1220.5	1177.8	1171.7	1146.2	1133.8	1120.0	1279.4	1471.8
37.5°	1366.7	1370.7	1369.2	1328.5	1276.5	1277.9	1272.1	1251.7	1215.0	1376.9	1585.8
40°	1453.3	1456.2	1455.9	1440.2	1412.9	1414.4	1412.2	1388.9	1334.0	1501.0	1712.4
42.5°	1573.0	1559.2	1523.1	1538.9	1554.8	1561.7	1576.6	1554.5	1479.2	1633.4	1831.4
45°	1706.9	1680.7	1599.2	1606.5	1665.9	1678.9	1761.1	1730.6	1636.7	1785.5	1971.5
47.5°	1791.3	1765.5	1696.7	1695.3	1773.9	1786.6	1932.2	1920.9	1780.1	1949.6	2142.4
50°	1866.7	1863.1	1785.5	1804.1	1880.9	1899.8	2118.5	2107.9	1923.0	2143.2	2328.8
52.5°	1978.4	1948.9	1887.0	1925.2	2026.8	2051.5	2303.3	2272.4	2054.4	2314.3	2509.6
55°	2028.6	2021.7	2018.1	2051.1	2190.6	2208.4	2483.1	2412.2	2166.5	2459.1	2647.2
57.5°	2162.9	2150.1	2186.2	2208.7	2383.4	2410.6	2670.8	2558.1	2264.7	2574.0	2714.2
60°	2336.8	2329.9	2363.0	2403.7	2598.8	2640.2	2884.8	2682.5	2343.7	2631.9	2677.4
62.5°	2596.6	2595.9	2589.7	2677.0	2904.1	2942.3	3130.4	2803.6	2356.1	2588.6	2487.4
65°	2969.2	2956.1	2902.3	2997.6	3283.9	3328.7	3386.2	2871.3	2281.5	2366.2	2094.4
67.5°	3359.0	3358.2	3314.5	3438.3	3829.4	3875.6	3706.0	2856.4	2074.4	1916.9	1487.5
70°	3682.1	3666.4	3722.1	4051.8	4526.3	4579.7	3985.8	2680.7	1652.3	1266.0	883.9
72.5°	3759.5	3760.3	3876.0	4524.7	5195.4	5203.8	4086.7	2172.7	1105.8	698.3	442.1
74°	3520.8	3527.0	3706.5	4548.4	5320.2	5282.3	3829.1	1707.7	747.7	455.9	318.7
75°	3213.7	3174.8	3434.2	4390.9	5190.7	5149.9	3527.4	1370.3	570.5	364.2	279.1
77.5°	1718.2	1757.9	2158.2	3276.7	4216.9	4170.0	2391.7	657.2	308.2	253.6	200.8
80°	611.7	674.7	948.2	1714.5	2703.6	2718.1	1141.5	301.2	216.9	187.0	141.9
82.5°	249.6	256.5	407.2	760.9	1372.9	1386.0	466.1	179.0	155.0	128.8	84.8
85°	97.6	100.4	180.1	342.0	585.8	624.0	161.2	94.6	95.4	73.8	43.3
87.5°	32.7	37.1	73.8	113.9	199.1	195.0	46.9	28.0	34.2	32.0	13.5
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°	1002.8	1002.8	1002.8	1002.8	1002.8	1002.8	1002.8	1002.8	1002.8	1002.8	1002.8
2.5°	1006.1	1013.0	1017.8	1022.8	1027.6	1029.0	1028.0	1031.2	1031.6	1031.9	1032.3
5°	1011.9	1021.4	1030.5	1035.6	1037.8	1035.9	1029.7	1026.5	1023.6	1021.4	1022.2
7.5°	1020.0	1033.4	1041.7	1043.9	1038.1	1029.7	1014.5	1002.5	994.8	989.8	989.4
10°	1032.3	1045.4	1052.3	1046.1	1030.1	1009.8	985.7	963.2	946.0	941.0	940.6
12.5°	1048.0	1062.9	1062.5	1044.4	1016.3	979.9	941.0	914.8	891.5	879.9	884.6
15°	1068.3	1079.6	1069.1	1036.3	992.0	942.1	894.1	858.4	832.2	819.8	820.6
17.5°	1092.0	1101.8	1073.8	1022.2	957.7	893.6	838.0	804.2	783.4	774.3	773.6
20°	1121.5	1124.3	1073.8	997.3	913.7	837.3	784.1	760.5	748.8	744.1	745.5
22.5°	1153.1	1147.3	1068.0	962.4	855.8	778.3	742.7	732.1	726.3	725.5	726.3
25°	1188.8	1172.4	1056.0	915.2	795.4	727.4	706.6	708.5	709.6	709.6	712.1
27.5°	1232.4	1199.7	1035.9	855.5	724.9	680.1	674.2	687.0	692.8	693.9	695.8
30°	1289.9	1229.5	1002.8	780.9	664.8	637.5	647.7	664.8	671.4	675.3	674.7
32.5°	1358.3	1262.3	958.1	706.3	616.4	607.7	620.1	637.5	644.8	647.0	644.0
35°	1438.8	1299.4	899.1	636.4	574.2	579.3	593.8	599.3	605.9	605.9	607.3
37.5°	1525.3	1329.2	827.1	572.4	541.4	560.0	570.5	565.5	562.5	558.9	560.7
40°	1613.4	1351.4	733.6	509.1	508.7	540.0	542.9	528.3	516.7	513.1	511.2
42.5°	1690.2	1365.3	649.2	459.9	477.8	520.3	522.5	499.2	480.7	469.8	466.1
45°	1780.8	1381.3	566.6	419.2	449.0	504.7	510.2	478.9	451.5	428.7	422.9
47.5°	1904.9	1417.7	501.4	387.5	428.3	494.8	502.5	462.1	426.1	396.3	391.6
50°	2045.0	1467.5	450.9	366.1	412.3	486.1	495.6	445.1	402.4	369.4	365.7
52.5°	2173.4	1494.5	407.2	346.7	396.6	470.1	486.5	432.6	379.1	342.4	339.1
55°	2243.6	1450.7	364.2	327.8	375.2	449.3	473.7	415.5	356.6	328.2	323.4
57.5°	2253.1	1360.5	325.3	307.5	352.6	423.9	450.1	394.8	342.0	318.4	314.4
60°	2180.0	1225.9	295.1	290.7	329.7	395.2	423.5	376.6	327.1	307.5	303.4
62.5°	1998.0	1079.6	274.0	275.4	306.4	365.0	403.9	359.1	312.9	295.4	291.8
65°	1685.1	891.1	253.6	259.8	285.6	341.3	386.1	344.6	298.7	286.4	283.1
67.5°	1170.6	643.4	236.9	243.5	266.0	317.3	365.3	328.9	282.7	276.2	271.1
70°	648.1	395.9	217.2	224.9	245.7	290.4	342.0	305.3	259.4	256.5	249.3
72.5°	340.6	252.1	195.0	203.4	218.0	255.8	306.4	279.5	236.5	224.1	214.7
74°	266.0	206.7	180.1	188.9	198.6	235.4	285.3	260.9	220.2	205.6	198.3
75°	231.8	184.1	167.4	178.6	187.4	221.6	268.9	247.8	211.0	197.2	190.7
77.5°	163.7	137.9	136.8	150.3	155.0	194.3	242.4	225.6	188.1	173.6	167.4
80°	115.0	103.4	108.4	116.8	123.4	171.7	224.9	195.0	154.3	137.2	135.0
82.5°	74.9	67.7	77.5	85.1	87.3	126.7	181.6	148.1	112.4	91.3	84.8
85°	34.6	33.8	44.4	43.3	43.0	61.9	107.7	86.6	64.8	48.4	45.5
87.5°	8.7	8.4	10.9	9.1	10.9	9.4	9.8	2.5	0.3	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)